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CERTIFICATION EXAM SUPPORT

EXAM PREPARATION MATERIAL

Practice files designed to help you understand exam patterns, question styles and the overall assessment format.

IMPORTANT NOTE

> **Please note that these files may not be up to date. However, the questions will help you understand the exam format and typical question patterns.**

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Question: 1

Which protocol does Cisco Catalyst SD-WAN use to protect control plane communication?

A. OMP

B. STUN

C. DTLS

D. IPsec

Answer: C

Explanation:

Question: 2

In which two ways does PIM dense mode function in the network? (Choose two.)

A. It waits to forward multicast traffic until a downstream router requests the traffic.

B. It utilizes the designated forwarder election to avoid multicast packet loops.

C. It receives traffic from only one Reverse Path Forwarding interface.

D. It forwards multicast traffic on all interfaces until a downstream router requests that forwarding stop.

E. It uses a push method, and fallback occurs when RP information is lost.

Answer: A,D

Explanation:

Question: 3

Which characteristic applies to the endpoint security aspect of the Cisco Threat Defense architecture?

A. detect and block ransomware in email attachments

B. cloud-based analysis of threats

C. outbound URL analysis and data transfer controls

D. user context analysis

Answer: D

Explanation:

Question: 4

Refer to the exhibit. A customer reports occasional brief audio dropouts on its Cisco Wi-Fi phones. The environment consists of a Cisco Catalyst 9800 Series WLC with Catalyst 9120 APs running RRM. The phones connect on the 5-GHz band. Which action resolves this issue?

A. Enable Media Stream Multicast-direct.

B. Disable Coverage Hole Detection.

C. Set WMM Policy to Required.

D. Enable Defer Priority 6.

Answer: C

Explanation:

Question: 5

Why is a Type 1 hypervisor more efficient than a Type 2 hypervisor?

A. Type 1 hypervisor is the only type of hypervisor that supports hardware acceleration techniques.

B. Type 1 hypervisor runs directly on the physical hardware of the host machine without relying on the underlying OS.

C. Type 1 hypervisor enables other operating systems to run on it.

D. Type 1 hypervisor relies on the existing OS of the host machine to access CPU, memory, storage, and network resources.

Answer: B

Explanation:

Question: 6

Refer to the exhibit.

Refer to the exhibit. A customer asks an engineer to create a new secure WLAN to support only WPA3. Users must connect using a passphrase. Which encryption and key management

configuration is required?

A. CCMP256 encryption with CCKM key management

B. GCMP128 encryption with OWE key management

C. CCMP128 encryption with SAE key management

D. GCMP256 encryption with 802.1x key management

Answer: C

Explanation:

Question: 7

Refer to the exhibit.

```
def main():
```

```
    print("The answer is " + str(magic(5)))

def magic(num):
    try:
        answer^ num + 2*10
    except:
        answer = 100 return answer

main()
```

Refer to the exhibit. What is displayed when the code is run?

A. The answer is 5

B. The answer is 25

C. The answer is 100

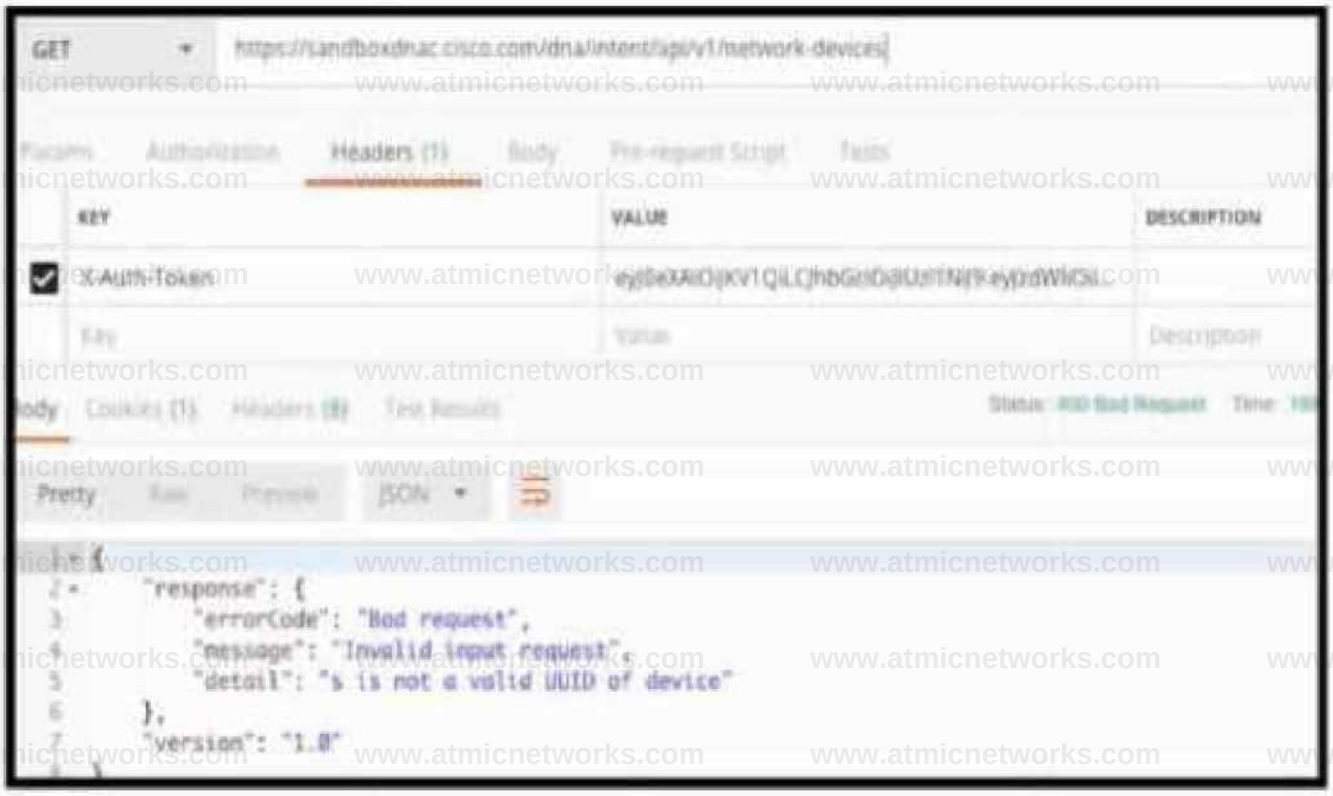
D. The answer is 70

Answer: B

Explanation:

Question: 8

Refer to the exhibit.



Refer to the exhibit. POSTMAN is showing an attempt to retrieve network device information from Cisco Catalyst Center (formerly DNA Center) API. What is the issue?

A. The token has expired

B. The URI string is incorrect

C. Authentication has failed

D. The JSON payload contains the incorrect UUID

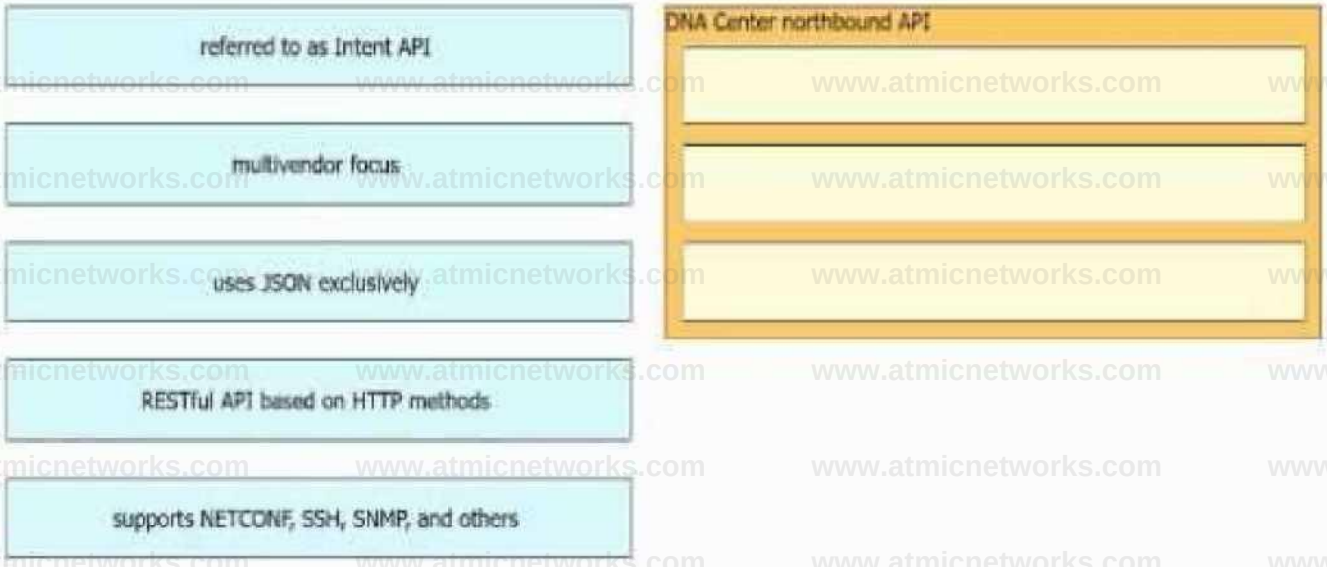
Answer: D

Explanation:

Question: 9

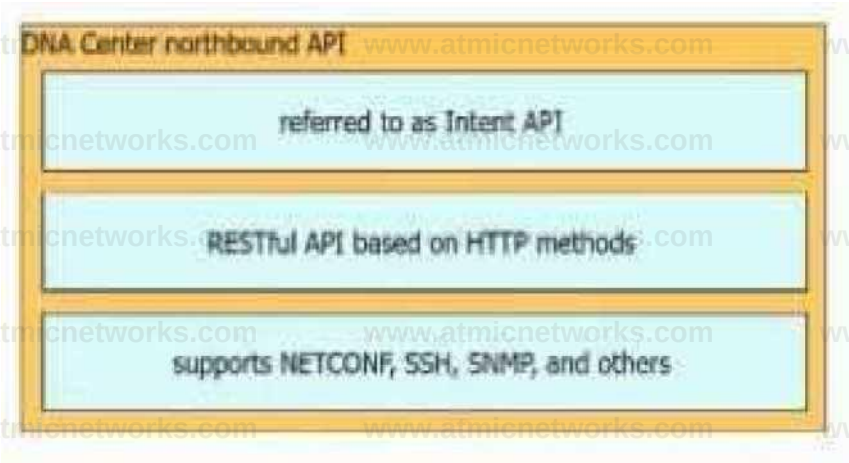
DRAG DROP

Drag and drop the Cisco Catalyst Center (formerly DNA Center) northbound API characteristics from the left to the right. Not all options are used.



Answer:

Explanation:



Question: 10

In a Cisco SD-Access wireless architecture, which device manages endpoint ID to edge node bindings?

A. fabric control plane node

B. fabric edge node

C. fabric border node

D. fabric wireless controller

Answer: A

Explanation:

Question: 11

Refer to the exhibit.

```
client.connect(sd, port=22, username=username, password=password, allow_agent=False)
stdin, stdout, stderr = client.exec_command('show lld neighbors\n')
u = 0
for u in stdout:
    if 'Router' not in u and 'Capability' not in u and 'Repeater' not in u:
        if 'Device ID' not in u and 'displayed' not in u:
            u101 = u.split()
            if len(u101) != 0:
                u2.append(u101)
    if 'displayed:' in u:
        cx = u.split()
        c0 = cx[3]
d1 = {'x0': u1, 'c0': c0}
```

Refer to the exhibit. What is achieved by this Python script?

A. It displays the output from show lldp neighbors into a standard output.

B. It reads the neighbor count from show lldp neighbors into a dictionary list.

C. It displays the Layer 3 neighbors from show lldp neighbors on the terminal screen.

D. It reads the output from show lldp neighbors into an array object.

Answer: B

Explanation:

Question: 12

Which design principle states that a user has no access by default to any resource, and unless a resource is explicitly granted, it should be denied?

A. economy of mechanism

B. fail-safe defaults

C. complete mediation

D. least privilege

Answer: B

Explanation:

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Question: 13

DRAG DROP

Refer to the exhibit.


```
{
"Cisco-IOS-XE-native:GigabitEthernet": {
"name": "1",
"vrf": {
"forwarding": "MANAGEMENT"
},
"ip": {
"address": {
"primary": {
"address": "10.0.0.151",
"mask": "255.255.255.0"
}
}
},
"mop": {
"enabled": false
},
"Cisco-IOS-XE-ethernet:negotiation": {
"auto": true
}
}
}
```


Refer to the exhibit. Drag and drop the snippets into the RESTCONF request to form the request that returns this response. Not all options are used.

tTht. - http://io. ID. ID ■ LO/nctccnf/*pi/nniiing/iuti.v*/

NTT! Wttfc

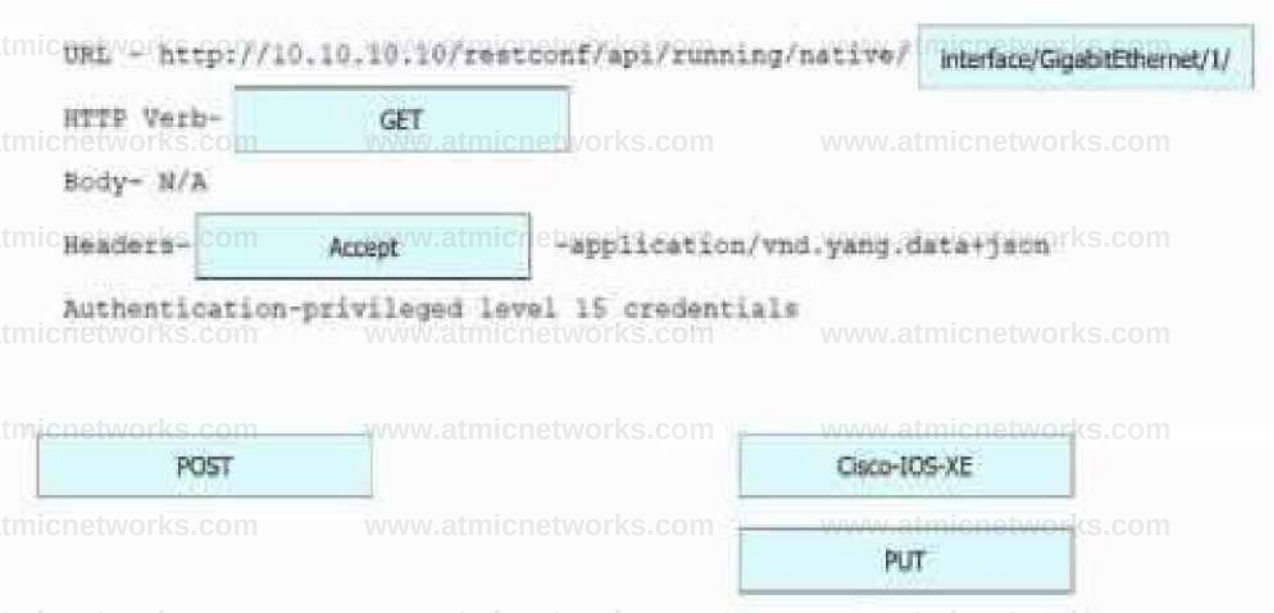
Body- WA | -appltCAtxcn/vnd.yan^.<Kt** inon

Hoaiexs- r Xuth^ntication-prmitH Level .5 jr^dent ii> Ls

TOST	Accept	Cisco-IOS-XE
intrrfarc/GigotaCEthcmrt/1/	GFT	PUT

Answer:

Explanation:



Question: 14

When using a Cisco Catalyst 9800 Series WLC, which tag/profile can be applied to APs to change the mode to FlexConnect in a specific location?

A. policy tag

B. site tag

C. AP join profile

D. flex profile

Answer: B

Explanation:

Question: 15

What is the role of the vSmart controller in a Cisco Catalyst SD-WAN environment?

A. It is the centralized network management system.

B. It manages the data plane.

C. It manages the control plane.

D. It performs authentication and authorization.

Answer: C

Explanation:

Question: 16

Which mechanism is used to protect the confidentiality of sensitive information exchanged over REST APIs?

A. TLS

B. 802.1X

C. SSH

D. IPsec

Answer: A

Explanation:

Question: 17

What is one role of an AP join profile on a Cisco wireless network?

A. To allocate IP addresses to APs.

B. To provide the settings and credentials that allow APs to authenticate to the network.

C. To allocate network resources dynamically based on demand.

D. To manage the radio frequency settings in different areas.

Answer: B

Explanation:

Question: 18

What is YANG used for?

A. scraping data via CLI

B. processing SNMP read-only polls

C. describing data models

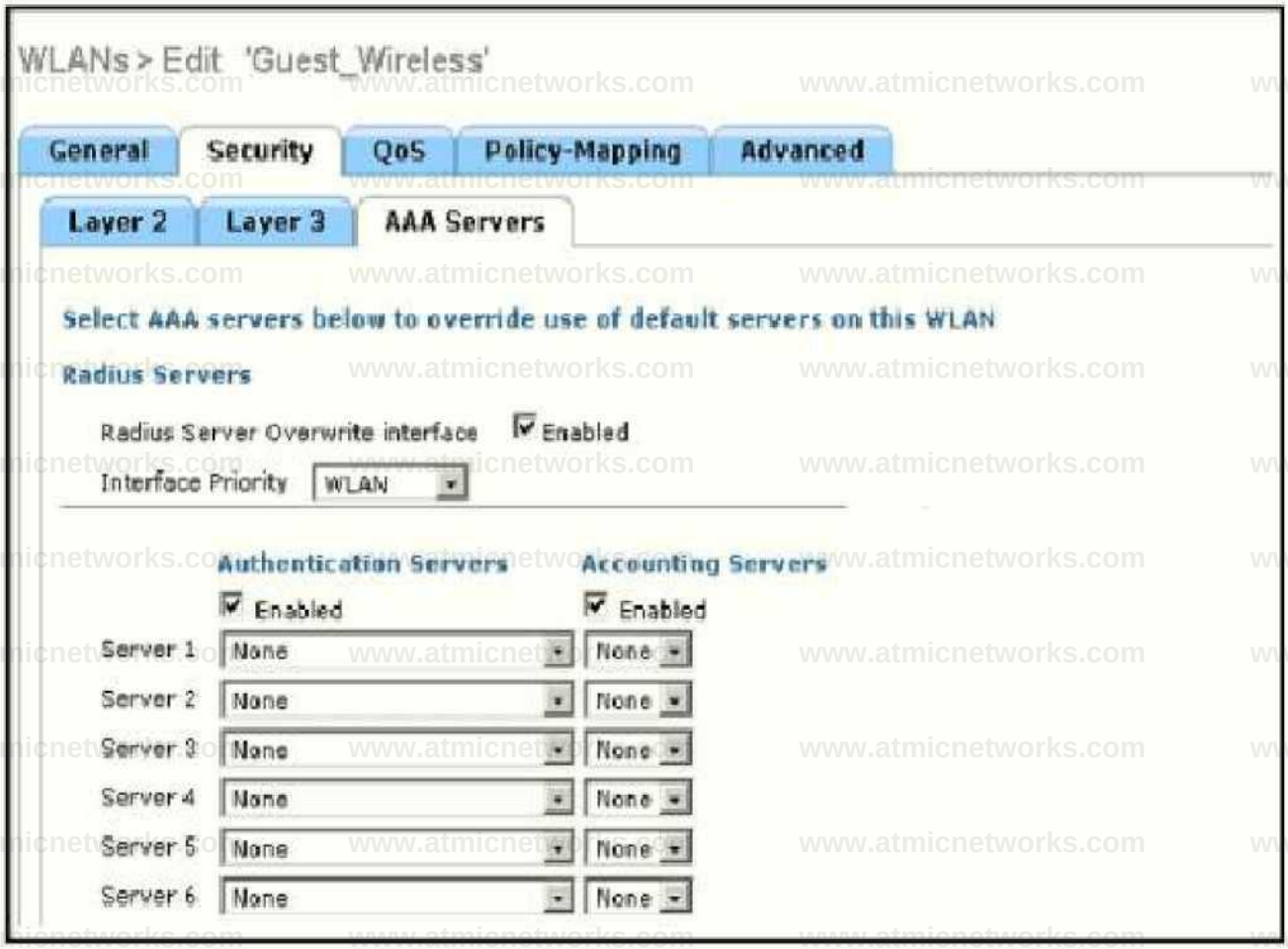
D. prowling a transport for network configuration data between client and server

Answer: C

Explanation:

Question: 19

Refer to the exhibit.



Assuming the WLC's interfaces are not in the same subnet as the RADIUS server, which interface would the WLC use as the source for all RADIUS-related traffic?

A. the interface specified on the WLAN configuration

B. any interface configured on the WLC

C. the controller management interface

D. the controller virtual interface

Answer: A

Explanation:

Question: 20

Which protocol is used by vmanage to push centralized policies to vsmart controllers?

A. NETCONF

B. TLS

C. STUN

D. OMP

Answer: A

Explanation:

Question: 21

What does a next-generation firewall that is deployed at the data center protect against?

A. signature-based malware

B. DMZ web server vulnerabilities

C. zero-day attacks

D. DDoS

Answer: A

Explanation:

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Question: 22

What is a characteristic of omnidirectional antennas?

A. It includes dish antennas.

B. It has high gain.

C. It provides the most focused and narrow beamwidth.

D. It includes dipole antennas.

Answer: D

Explanation:

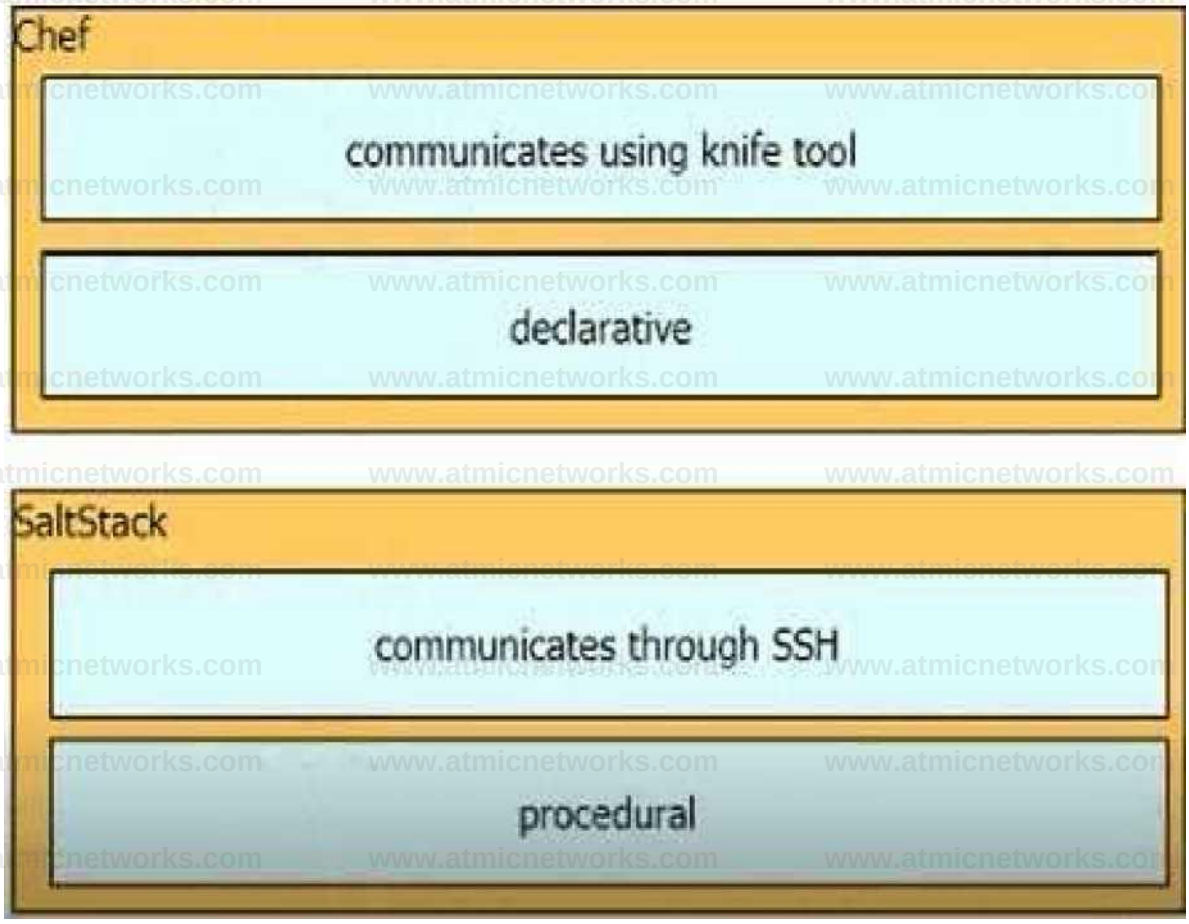
Question: 23

DRAG DROP

Drag and drop the characteristics from the left into the orchestration tools that they describe on the right.

Answer:

Explanation:



Question: 24

At which plane does vBond operate in Cisco SD-WAN solutions?

A. control plane

B. data plane

C. orchestration plane

D. management plane

Answer: C

Explanation:

Question: 25

Which RF value represents the decline of the RF signal amplitude over a given distance"

A. signal-to-noise ratio

B. received signal strength indicator

C. free space path loss

D. effective isotropic radiated power

Answer: C

Explanation:

Question: 26

DRAG DROP

Drag and drop the snippets onto the blanks within the code to create an EEM script that adds an entry to a locally stored text file with a timestamp when a configuration change is made. Not all options are used.

```
event manager applet CONF_CHANGE
[ ]  "SYS-5-CONFIG_I"
action 1.0 cli command [ ]
action 2.0 cli command "show clock [ ] :ConfSave.txt"
action 3.0 syslog Priority informational msg "Configuration changed"
```

event cli pattern	"enable"	event syslog pattern
"config t"	| append flash	flash

Answer:

Explanation:

```
event manager applet CONF_CHANGE
event syslog pattern "SYS-5-CONFIG_I"
action 1.0 cli command "enable"
action 2.0 cli command "show clock | append flash :ConfSave.txt"
action 3.0 syslog Priority informational msg "Configuration changed"
```

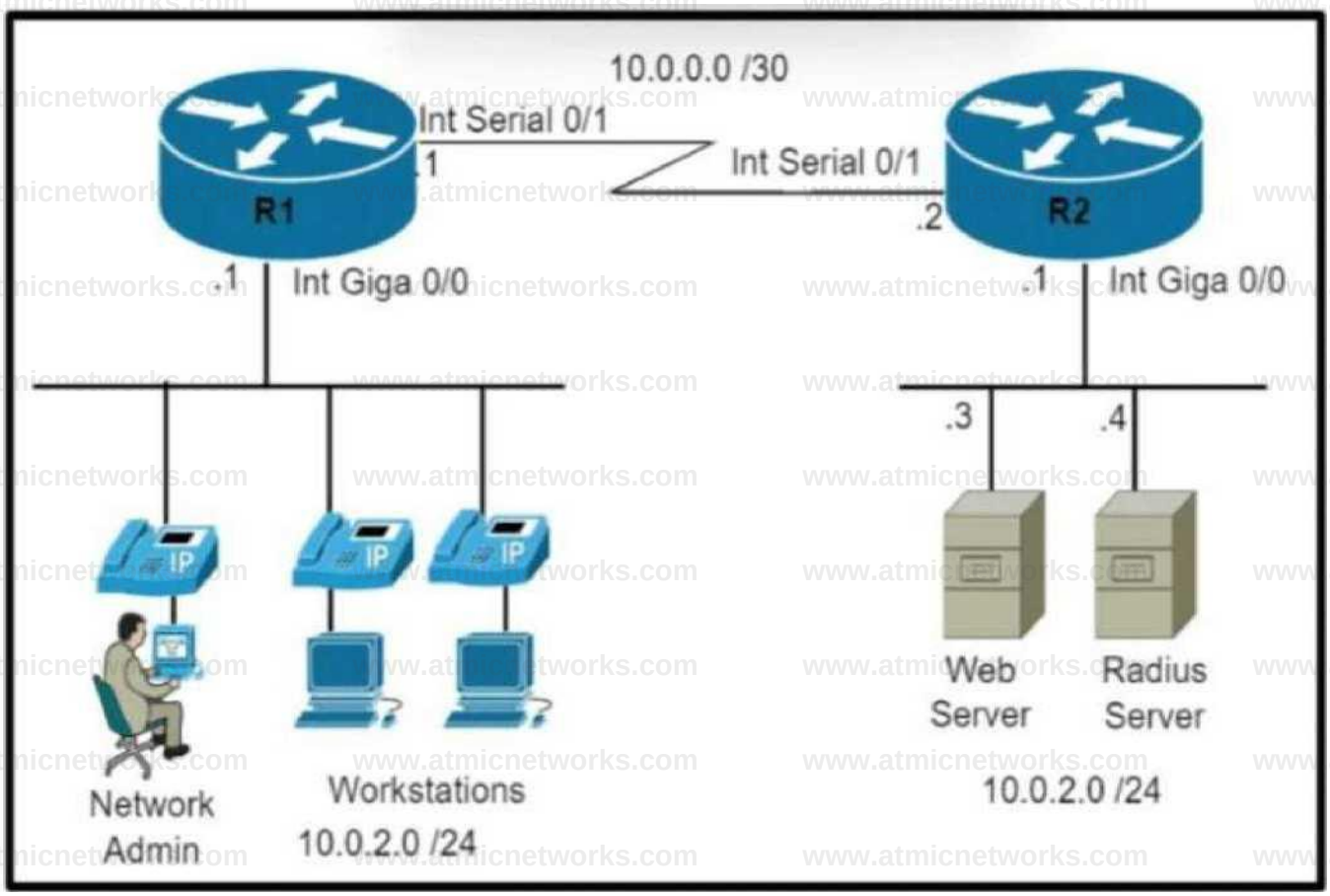
event cli pattern

"config t"

flash

Question: 27

Refer to the exhibit.



Refer to the exhibit Which command set is required on router R1 to allow the network administrator to authenticate via RADIUS'?

aaa new-model
aaa authentication login default group radius

aaa new-model
aaa authentication login console

O aaa new-model
aaa authentication login default

C aaa new-model
aaa authorization exec default group radius

A. Option A

B. Option B

C. Option C

D. Option D

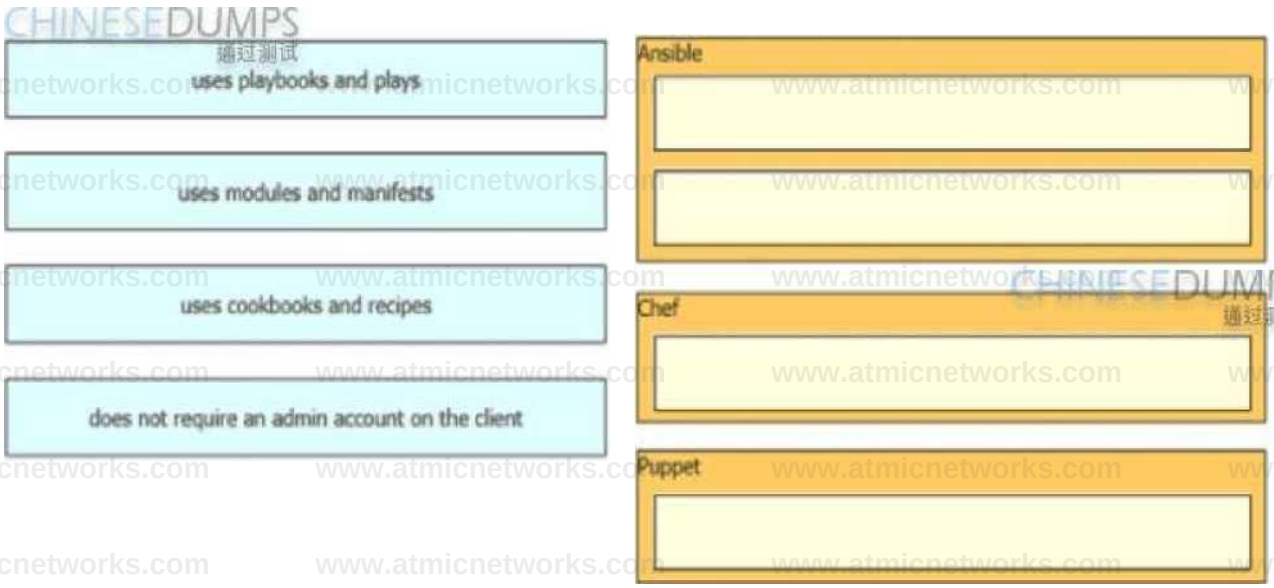
Answer: A

Explanation:

Question: 28

DRAG DROP

Drag and drop the automation characteristics from the left to the corresponding tools on the right.



Answer:

Explanation:

Question: 29

When deploying a Cisco Unified Wireless solution what is a design justification for using a distributed WLC deployment model?

A. It reduces the number of WLCs that network administrators must support by locating them in a common location

B. It more evenly distributes MAC ARP and ND processing over multiple switches which helps with scalability

C. The number of wireless clients is low and the size of the physical campus is small

D. There are no latency concerns about LWAPP and CAPWAP tunnels traversing the campus core network

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Answer:

D

Explanation:

Question: 30

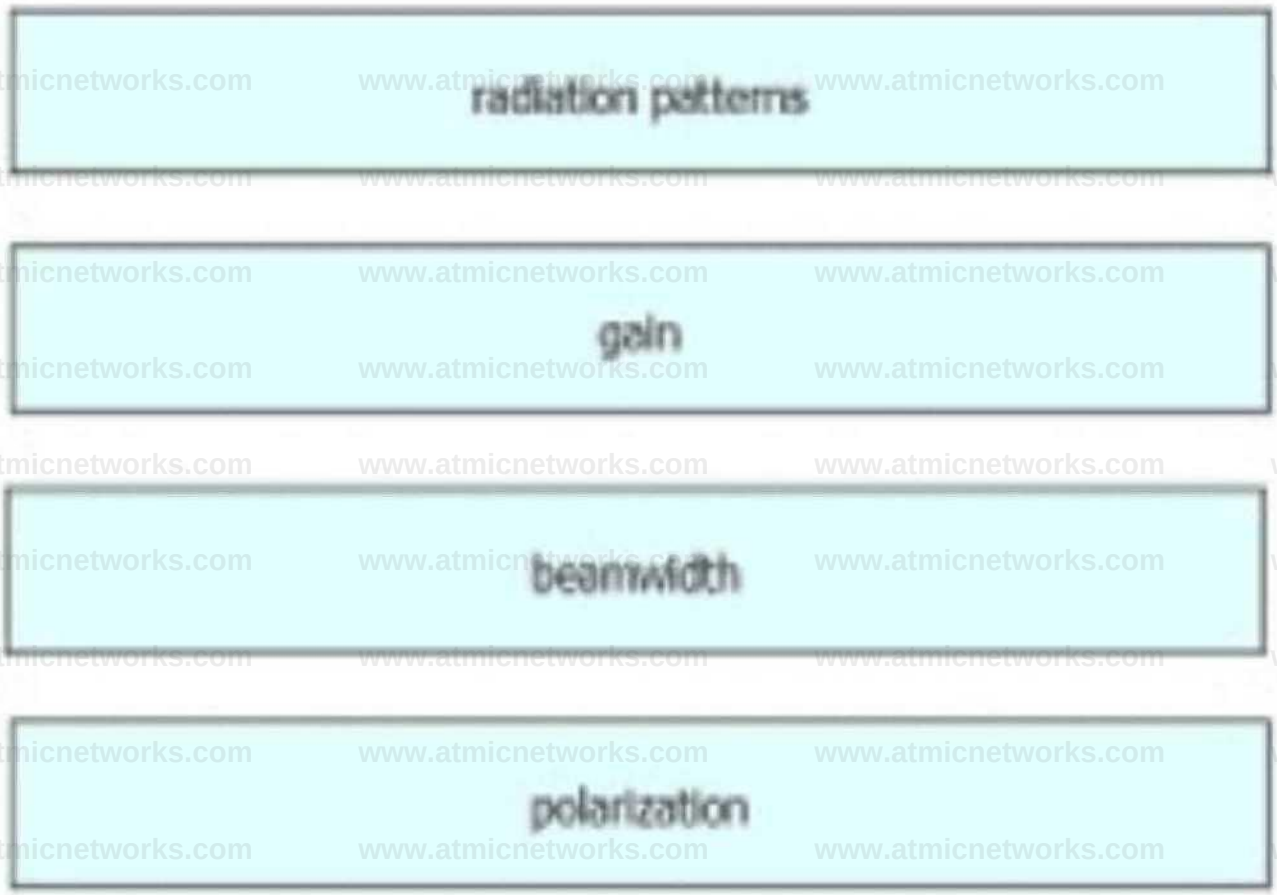
DRAG DROP

Drag and drop the wireless elements on the left to their definitions on the right.

beamwidth	a graph that shows the relative intensity of the signal strength of an antenna within its space
polarization	the relative increase in signal strength of an antenna in a given direction
radiation patterns	measures the angle of an antenna pattern in which the relative signal strength is half-power below the maximum value
gain	radiated electromagnetic waves that influence the orientation of an antenna within its electromagnetic field

Answer:

Explanation:



Question: 31

Which First Hop Redundancy Protocol should be used to meet a design requirements for more efficient default bandwidth usage across multiple devices?

A. GLBP

B. LCAP

C. HSRP

D. VRRP

Answer: A

Explanation:

Question: 32

What is required for a VXLAN tunnel endpoint to operate?

A. a VXLAN tunnel endpoint identifier

B. at least one Layer 2 interface and one Layer 3 interlace

C. at least one IP for the transit network and one IP for endpoint connectivity

D. a VXLAN network identifier

Answer: D

Explanation:

Question: 33

What does the statement print(format(0.8, \0%')) display?

A. 80%

B. 8.8%

C. .08%

D. 8%

Answer: A

Explanation:

Question: 34

DRAG DROP

Drag and drop the code snippets from the bottom onto the blanks in the Python script to print the device model to the screen and write JSON data to a file. Not all options are used

```
import j son

data - { "measurement": "ifHCInOctets" "maxDataPcints": 30,
  "                "default
  "params :        None,
  "devices":
    {"model"    "Cisco Nexus 3550              ": '172.16.16.249']
```

```
            (data("devices    ][0]["model"])
with [      ] <"data.json ", " [      ]") as file:
    ]3On [      ] (data   file, indent=4)
```

dumps	print	dump	open	r	w

Answer:

Explanation:

```
import 3 son

data = { "measurement": "ifHCInOctets", "maxDataPoints": 30, "policy":
   "default", "params": None, "devices": [
      {"model": "Cisco Nexus 3550", "ipv4": '172.1€.16.249'} J

[print] (data["devices"][0]["model"])
with [open] ("data.json", "[dump]") as file:
    json.[w] (data, file, indent=4)
```

dumps

r

Question: 35

Which next generation firewall feature supports separate security services for multiple departments?

A. state sharing mode to .trade the user data sessions and replication to the neighbor firewall using a failover link

B. Layer 3 mode with resource tracking capabilities and automatic configuration synchronization between the nodes and security zones

C. multicontext mode with specific logical or physical interface allocation within each context and grouped into security zones

D. virtual switch mode to provide traffic inspection capabilities for the flows entering the firewall and dropping packets based on policy configuration

Answer: C

Explanation:

Question: 36

Which nodes require VXLAN encapsulation support In a Cisco SD-Access deployment?

A. core nodes

B. distribution nodes

C. border nodes

D. aggregation nodes

Answer: C

Explanation:

Question: 37

A corporate policy mandates that a certificate-based authentication system must be implemented on the wireless infrastructure. All corporate clients will contain a certificate that will be used in conjunction with ISE and user credentials to perform authentication before the clients are allowed to connect to the corporate Wi-Fi. Which authentication key option must be selected to ensure that this authentication can take place?

A. none

B. PSK

C. 802.1x

D. CCKM

Answer: C

Explanation:

Question: 38

What is the function of the statement "import actions" in this script?

```
Import actions

if process == 'http':
    actions.http(site)
```

A. It imports the functions that are not available natively in Python

B. It imports the functions of a third-party module

C. It imports a Python module

D. It imports an external reference

Answer: C

Explanation:

Question: 39

Which characteristic applies to Cisco SD-Access?

A. It uses dynamic routing the discover and provision access switches.

B. It uses VXLAN for the control plane

C. It uses VXLAN for the data plane

D. It uses dynamic routing to discover and provision border switches

Answer: B

Explanation:

Question: 40

Which tag defines the roaming domain and properties of an AP deployment?

A. RF tag

B. policy tag

C. site tag

D. AP tag

Answer: C

Explanation:

Question: 41

Which two southbound interfaces originate from Cisco Catalyst Center (formerly DNA Center) and terminate at fabric underlay switches'? (Choose two.)

A. ICMP Discovery

B. UDP67 DHCP

C. TCP 23 Telnet

D. UDP6007 NetFlow

E. UDP 162 SNMP

Answer: A,C

Explanation:

Question: 42

What is a characteristics of Wi-Fi channels?

A. The 2 4-GHz balWMS§24 non-overlapping channels

B. Devices that connect to the same Wi-Fi channel reside in the same collision domain.

C. Wi-Fi channels are spaced 30 MHz apart.

D. The 5-GHz band offers 11 different channels for Wi-Fi clients

Answer: B

Explanation:

Question: 43

What is two characteristic of Cisco DNA Center and vManage northbound APIs?

A. They exchange XML-formatted content

B. They exchange JSON-kxmatted content.

C. They implement the RESTCONF protocol.

D. They implement the NETCONF protocol.

E. They exchange protobuf-formatted content.

Answer: B,C

Explanation:

Question: 44

DRAG DROP

Drag and drop the code snippets from the bottom onto blanks m the Python script so that the program changes the IP address and saves It as a new JSON Me on the disk Not all options are used

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import Jeon

with open Cjsan les xe.jaon*. "r") _na_jaonf lie:

jsonfilecontent •]aoa_file. I

deeoded_jeon = json. [ ] Ijeca file content)

decoded]oea('Ciacc-IOS-XE-nati»e:interface*)['GigabitEthernet*J[0]('ip* J ['address* H'prfsary* I [*addreei'' ■ "IW.ltF.;,; "

enccded_jso3_cimpact [3] jeon. ^(decoded^ son >

encoded jeon indented - jeon.dump#(decoded J sen, indent ~ 4)

with open("3eon lea xe compact.jeon". "w") an Jaan file:
jaon_file. [^^^^^(encodedjjsco_ccapact)

with open("jeon lot xe Indented.jeon", "w"| at jaon fil Jton file.write(encoded jeon indented)

1 wxiteO	leads 0	dongM 1)	open() read()

Answer:

Explanation:

import Joon

```
with open("json ios xe.json", "r") as json file:
    json_file_content = json_file. read()

decoded_json = json. loads() (json_file_content)
```

decoded 3ton[*Cieco-lOS-XE-netive:interface*)([1]GigabitEthernet *][0](* ip*) [-address*] ^primary*][['address')
- \ '1W. US. 1 -2"

encoded_Jaon_compact - J son. dumps() (decoded_jaoa)

encoded jaon indented =
json.dumpa(decoded Jaon, indent ■ 4)

with cpen("]sor—' ~ ~ ——xorapact. j son", "w") aa json file: 3son file. 1 '_____ ~ [(encoded 3sen cos^act)

with open("jeon ice xe indented.J eon", "w") ae jeon file: Jeon file.write(encoded Jeon indented)

Question: 45

A company hires a network architect to design a new OTT wireless solution within a Cisco SD-Access Fabric wired network. The architect wants to register access points to the WLC to centrally switch the traffic. Which AP mode must the design include?

A. Bridge

B. Fabric

C. FlexConnect

D. local

Answer: D

Explanation:

Question: 46

A customer wants to use a single SSID to authenticate IoT devices using different passwords. Which Layer 2 security type must be configured in conjunction with Cisco ISE to achieve this requirement?

A. Identity PSK

B. Fast Transition

C. Central Web Authentication

D. Cisco Centralized Key Management

Answer: A

Explanation:

Question: 47

What is a characteristics of a type 1 hypervisor?

A. It runs on top of the host operating system.

B. It is preferred for supporting nonproduction workloads.

C. It has greater latency than a Type 2 hypervisor.

D. It runs on top of bare metal servers.

Answer: D

Explanation:

Question: 48

Which method requires a client to authenticate and has the capability to function without encryption?

A. open

B. WEP

C. WebAuth

D. PSK

Answer: C

Explanation:

Question: 49

Which task Is mandatory when provisioning a device through the plug-and-play workflow in Cisco DNA Center?

A. site assignment

B. slack serial number assignment

C. golden image upgrade

D. template configuration application

Answer: D

Explanation:

Question: 50

A system must validate access rights to all its resources and must not rely on a cached permission matrix. If the access level to a given resource is revoked but is not reflected in the permission matrix,

the security is violates Which term refers to this REST security design principle?

A. economy of mechanism

B. complete mediation

C. separation of privilege

D. least common mechanism

Answer: C

Explanation:

Question: 51

Which AP mode allows administrators to generate pcap files to use for troubleshooting?

A. Sniffer

B. Local

C. H-REAP

D. Monitor

Answer: A

Explanation:

Question: 52

DRAG DROP

Drag and drop the snippets onto the blanks within the code to construct a script that blocks a MAC address.

```
– event manager applet mac_block event timer | time 10
action 01 cli command "enable"
action 02 cli command "terminal length 0"
action 03 cli command _2show mac address-table address 0050.7966.6800"
action 04 regexp " [ _____ "            t match
action 05 if $_regexp_result eq
action 06 cli command "configure terminal"
action 07 cli command "interface $ Ports"
action 08 cli command "shutdown" action 09 end
```

watchdog (G.,,) 1

Answer:

Explanation:

```
event manager applet mac_block
 event timer watchdog time 10
 action 01 cli command "enable"
 action 02 cli command "terminal length 0"
 action 03 cli command "show mac address-table address 0050.7966.6800"
 action 04 regexp " (Gt...) " $_cli_result match
 action 05 if $_regexp_result eq 1
 action 06     set Ports "$_cli_result"
 action 07     cli command "configure terminal"
 action 08     cli command "interface SPorts"
 action 09     cli command "shutdown"
 action 10 end
```

Question: 53

Which lag/profile on a Cisco Catalyst 9800 Series WLC must be modified to allow Cisco ISE to dynamically assign VLANs to users on an 802.1X-based SSID?

A. interface lag

B. site tag

C. WLAN profile

D. policy profile

Explanation:

Answer: D

Question: 54

Refer to the exhibit.

```
pl1=[
"""
<get-config xmlns="urn:ietf:params:xml:ns:netconf:base:1.0">
  <source>
    <running/>
  </source>
  <filter>
    <native xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-native">
      <ip>
        <access-list>
          <extended xmlns="http://cisco.com/ns/yang/Cisco-IOS-XE-acl">
            <name>flp</name>
          </extended>
        </access-list>
      </ip>
    </native>
  </filter>
</get-config>
"""
]
with manager.connect(host=c54, port=830, username=c14,
                     password=c24, timeout=90, hostkey_verify=False) as m:
  for rpc in pl1:
    r1= m.dispatch(et.fromstring(rpc))
    d1= xmltodict.parse(r1.xml)['rpc-reply']['data']['native']['ip']
        ['access-list']['extended']['access-list-seq-rule']
```

Refer to the exhibit. What is achieved by this Python script?

A. It configures access list statements

B. It reads access list statements into a dictionary list

C. It displays access list statements on a terminal screen.

D. It converts access list statements to a human-readable format.

Answer:

Explanation:

B

Question: 55

Which technology is the Cisco SD-Access control plane based on?

A. IS-IS

B. LISP

C. Cisco TrustSec

D. VXLAN

Answer:

Explanation:

B

Question: 56

Refer to the exhibit.

```
import requests

### The authentication part is omitted for brevity purposes

URL = "https://dnac/dna/intent/api/v1/topology/vlan/vlan-names"
VlanNames = requests.get(URL, headers=Header).json()
print(VlanNames)
```

```
{'response': ['Vlan1', 'Vlan3002', 'Vlan3003', 'Vlan1023', 'Vlan2046', 'Vlan3009', 'Vlan3999'], 'version': '1.0'}
```

Refer to the exibit. How should the programmer access the list of VLANs that are recevied via the API

call?

A. VlanNames(0)

B. VlanName[Vlan1']

C. VlanName['response']

D. list(VlanNames)

Answer: C

Explanation:

Question: 57

How does NETCONF YANG represent data structures?

A. as strict data structures defined by RFC 6020

B. in an XML tree format

C. In an HTML format

D. as modules within a tree

Answer: B

Explanation:

Question: 58

Which component of the Cisco Cyber Threat Defense solution provides user and flow context analysis?

A. Cisco Firepower and FireSIGHT

B. Cisco Stealth watch system

C. Advanced Malware Protection

D. Cisco Web Security Appliance

Answer: B

Explanation:

Question: 59

How can an engineer prevent basic replay attacks from people who try to brute force a system via REST API?

A. Add a timestamp to the request in the API header.

B. Use a password hash.

C. Add OAuth to the request in the API header.

D. Use HTTPS.

Answer: A

Explanation:

Question: 60

How does SSO work with HSRP to minimize network disruptions?

A. It enables HSRP to elect another switch in the group as the active HSRP switch.

B. It ensures fast failover in the case of link failure.

C. It enables data forwarding along known routes following a switchover, white the routing protocol reconverges.

D. It enables HSRP to failover to the standby RP on the same device.

Answer: D

Explanation:

Question: 61

A client device roams between wireless LAN controllers that are mobility peers, Both controllers have dynamic interface on the same client VLAN which type of roam is described?

A. intra-VLAN

B. inter-controller

C. intra-controller

D. inter-subnet

Answer: A

Explanation:

Question: 62

Which component transports data plane traffic across a Cisco SD-WAN network?

A. vSmart

B. vManage

C. cEdge

D. vBond

Answer: C

Explanation:

Question: 63

Which two operations are valid for RESTCONF? (Choose two)

A. PULL

B. ADD

C. HEAD

D. REMOVE

E. GET

F. PUSH

Answer: C,E

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Explanation:

Question: 64

DRAG DROP

Drag and drop the code snippets from the bottom onto the blanks in the code to construct a request that configures a deny rule on an access list?

```
"ip": { ”access-list”: { "ios-
acl:extended": { "ios-acl;name";
"ato", " ios-acl :|                ”: (
"ios-acl:sequence": "111111", "ios-
acl:ace-rule": (_____ action”: "I
"ios-acl protocol*’: ’* any": "",
"ios-acl ii . if it
"ios-acl
"ios-acl
"ios-acl
}
}
```

deny	access-list-seq-rule	dst-any	ip

Answer:

Explanation:
access-list-sec-rule, deny, ip, dst-any

Question: 65

Which method is used by an AP to join HA controllers and is configured in NVRAM?

A. Primary/Secondary- Tertiary/Backup

B. stored WLC information

C. DNS

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D. IP Helper Addresses

Answer: B

Explanation:

Question: 66

What is the API keys option for REST API authentication?

A. a credential that is transmitted unencrypted

B. one-time encrypted token

C. a username that is stored in the local router

D. a predetermined string that is passed from client to server.

Answer: D

Explanation:

Question: 67

What are two methods of ensuring that the multicast RPF check passes without changing the unicast routing table? (Choose two.)

A. disabling the interface of the router back to the multicast source

B. implementing MBGP

C. disabling BGP routing protocol

D. implementing static mroutes

E. implementing OSPF routing protocol

Answer: B,D

Explanation:

Question: 68

To support new clients in the environment, an engineer must enable Fast Transition on the corporate

WLAN. Which command must be applied on a Cisco Catalyst 9800 Series WLC?

A. security ft adaptive

B. security wpa akm dotlx

C. security wpa akm psk

D. security wpa akm ft psk

Answer: D

Explanation:

Question: 69

What is a characteristic of VRRP?

A. It inherently balances load amongst the available gateways.

B. It ensures symmetric traffic flow upstream and downstream.

C. It Is a Cisco proprietary protocol.

D. It uses a virtual IP address and a virtual MAC address to achieve redundancy

Answer: D

Explanation:

Question: 70

What is contained in the VXLAN header?

A. original Layer 2 VLAN ID

B. Endpoint ID

C. VXLAN network identifier

D. source and destination RLOC ID

Answer: C

Explanation:

Question: 71

What is a characteristic of a Type 2 hypervisor?

A. quick deployment

B. ideal for data center

C. complicated deployment

D. referred to as bare-metal

Answer: A

Explanation:

Question: 72

In a high-density AP environment, which feature can be used to reduce the RF cell size and not demodulate radio packets above a given threshold?

A. RX-SOP

B. FRA

C. 80211k

D. RRM

Answer: A

Explanation:

Question: 73

Refer to the exhibit.

```
event manager applet config-alert
event cli pattern "write mem.*" sync yes
```

Which EEM script generates a critical-level syslog message and saves a copy of the running configuration to the bootflash when an administrator saves the running configuration to the startup configuration?

action 10 c|i command copy running-config bootflaah:/current conlig.txl
action 2.0 tysK$ msg "Configuration wed and copied to tjooWash'

action 1.0 cli command “enable"
action 2 0 ch command “configure terminal*
action 1.0 clr command "file prompt qu;et[h]
action 4.0 tit comm and VM"
action 5.0 cli command copy ninm no-config baotflash-i'cument contig txt
action 6.0 cli command [lr]mjiliyure Lorrmnaf
action ?.Q ch command ' no fife prompt qu cl[r]
action B.O 0ystag priority critical msg "Configurationlaved and copied Io bmllliish'

action | 0 di command “enable'
action 2.0 dr command Tila prompt qwiof
action 3 0 cli command copy running-config bootflash fcwrrent_config.txt
acbon 4 0 ch command "no filo prompt quiar
action a 0 eyefog priority critical msg "Configuration saved and copied io bootflash"

action 1.0 clr command copy furming-config boalflashj'current config.txt
action 2.0 sys ag priority critical rnsgXdnfifluralion saved and copied to boolfl esh"

A. Option A

B. Option B

C. Option C

D. Option D

Answer: B

Explanation:

Question: 74

In a wireless network environment, which measurement compares the received signal to the background noise?

A. free space path loss

B. link power budget

C. fading

D. SNR

Answer: D

Explanation:

Question: 75

Which AP mode analyzes the spectrum to detect sources of interference?

A. Monitor

B. Rogue detector

C. SE-Connect

D. Sniffer

Answer: C

Explanation:

Question: 76

Refer to the exhibit.

```
<?xml version="1.0" encoding="utf-8"?>
        <data xmlns="urn:ietf:params:xml:ns:netconf:base:1.0"/>
```

What does the error message relay to the administrator who is trying to configure a Cisco IOS device?

A. A NETCONF request was made for a data model that does not exist.

B. The device received a valid NETCONF request and serviced it without error.

C. A NETCONF message with valid content based on the YANG data models was made, but the request failed.

D. The NETCONF running datastore is currently locked.

Answer: A

Explanation:

Question: 77

What is the function of an intermediate node in a Cisco SD-Access fabric?

A. to route packets within the fabric based on the Layer 3 information in the header

B. to provide an entry and exit point between the fabric and external resources

C. to encapsulate and de-encapsulate packets with a VXLAN header

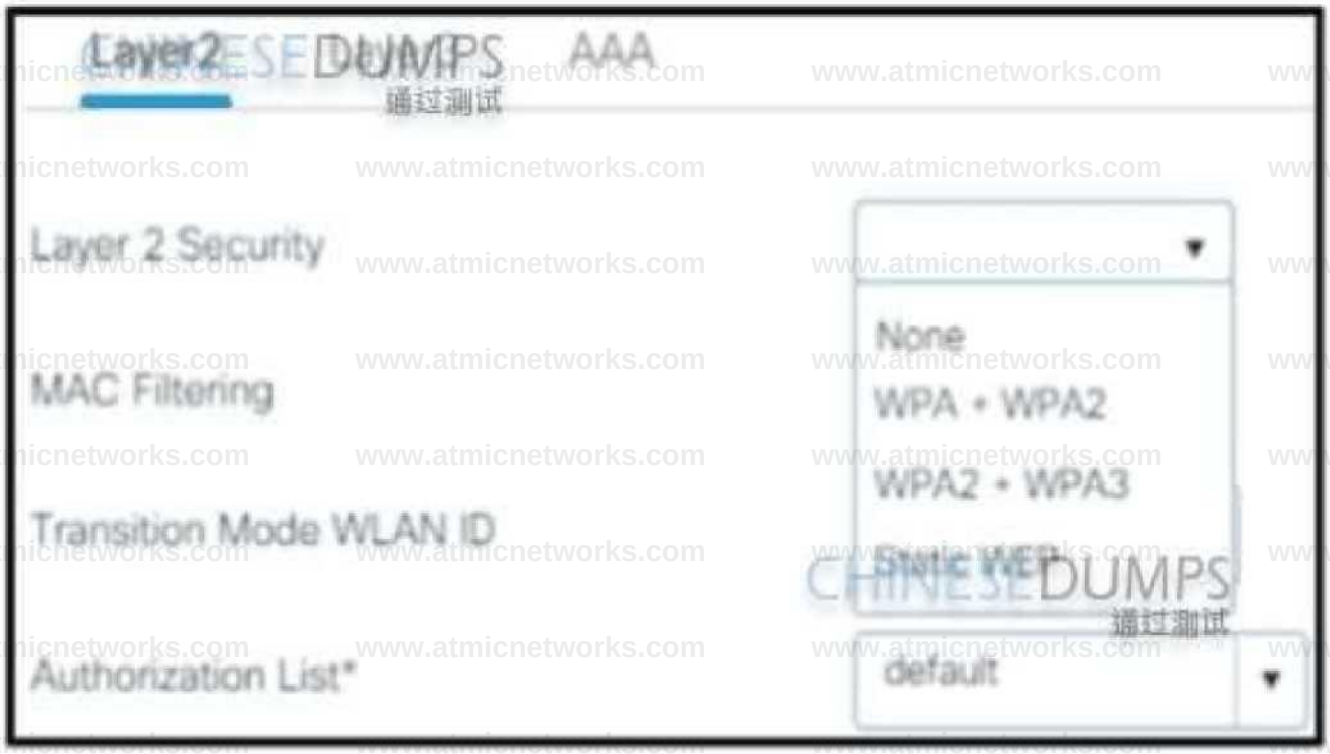
D. to provide reachability between fabric clients and nonfabric clients on the same subnet

Answer: A

Explanation:

Question: 78

Refer to the exhibit.



A client requests a new SSID that will use web-based authentication and external RADIUS servers.
Which Layer 2 security mode must be selected?

A. Static WEP

B. WPA2 + WPA3

C. None

D. WPA + WPA2

Answer: B

Explanation:

Question: 79

What is used to measure the total output energy of a Wi-Fi device?

A. dBi

B. EIRP

C. mW

D. dBm

Explanation:

Answer: C

Question: 80

Refer to the exhibit.

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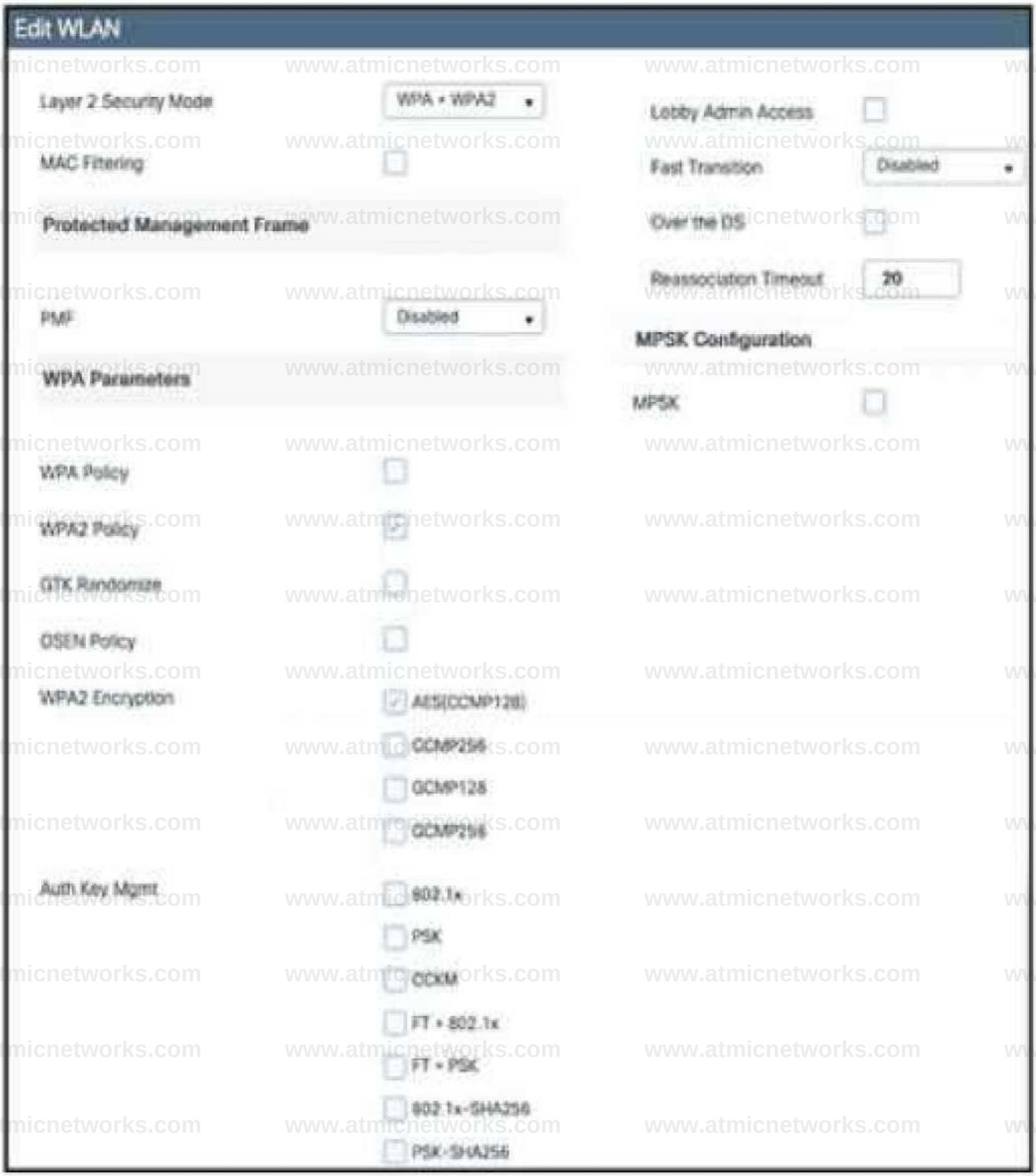


Which action must be taken to configure a WLAN for WPA2-AES with PSK and allow only 802.11r- capable clients to connect?

A. Enable PSK and FT + PSK.

B. Enable Fast Transition and FT + PSK.

C. Enable Fast Transition and PSK.

D. Change Fast Transition to Adaptive Enabled and enable FT * PSK.

Answer: A

Explanation:

Question: 81

An engineer is implementing a new SSID on a Cisco Catalyst 9800 Series WLC that must be broadcast on 6 GHz radios. Users will be required to use EAP-TLS to authenticate. Which wireless Layer 2 security method is required?

A. WPA3 Personal

B. WPA3 Enterprise

C. WPA3 Enterprise

D. WPA2 Personal

Answer: A

Explanation:

Question: 82

Which deployment option of Cisco NGFW provides scalability?

A. tap

B. inline tap

C. high availability

D. clustering

Answer: D

Explanation:

Question: 83

What is a benefit of implementing stateful switchover?

A. modularity

B. resiliency

C. flexibility

D scalability

Answer: B

Explanation:

Question: 84

Which data format can be used for an API request?

A. HTML

B. PERL

C. JSON

D. Python

Answer: C

Explanation:

Question: 85

Which feature is available to clients using layer 2 roaming in a wireless infrastructure?

A. Room to a different wireless controller that is on o different subnet and maintain the same IP address

B. Associate to a new access point on a different wireless controller and change the IP address without connectivity interruption

C. Associate to a new access point on the same wireless controller and change the IP address without connectivity interruption

D. Roam to a different wireless controller that snares The same subnet and maintain the same IP address

Answer: D

Explanation:

Question: 86

Refer to the exhibit.

```
Router1#telnet 192.168.1.1
% telnet connections not permitted from this terminal
```

An engineer attempts to connect to another device from Route1's console port. Which configuration is needed to allow telnet connections?

Router 1(oonAgP access-list 100 permit tcp any any eq telnet
Router 1icontig * line console 0
Router 1 (contig- nep access-class 100 In

Routeriiconttgyr access-list 100 permit tcp any any eq telnet
Router 1t contig:# Une vty
Router Ucon tig- nep access-class 100 out

Routed (config p line vty 0 15
Routeri|config- nep transport output telnet

(_ Router KconligP line console 0
Routed (config* nep transport output telnet

A. Option A

B. Option B

C. Option C

D. Option D

Answer: B

Explanation:

Question: 87

Which technology collects location information through data packets received by the APs instead of using mobile device probes?

A. detect and locate

B. FastLocate

C. hyperlocation

D. RF fingerprinting

Answer: B

Explanation:

Question: 88

In a Cisco SD-Access network architecture, which access layer cabling design is optimal for the underlay network?

A. Switches are cross-finned at the same layer and have a single connection to each upstream distribution device

B. Switches are connected to each upstream distribution and core device.

C. Switches are connected to each upstream distribution device.

D. Switches are cross-linked to devices at the same layer and at the upstream and downstream devices.

Answer: C

Explanation:

Question: 89

Refer to the exhibit.

Person#1:
First Name is Johnny
Last Name is Table
Hobbies are:
• Running
• Video games

Person#2:
First Name is Billy
Last Name is Smith
Hobbies are:
• Napping
• Reading

Which JSON syntax is derived from this data?

((fiul Him'- Jofwy. last Name' Table'. Hatties' Himm^ Modes' Vdeo games], fFht Name[1] 'My lasi Name' Sfrfli' Hobbies' Napping' Hobbies[1] ■Reacn.^')

{Person' [{Fw Name[1] Jonnny last Name' TatNc' 'Hotties Hwang[1] Vtto games} {first Name' 3iy. last Name Srrrti','Hobbies' Napping' Heading'll}

{Person : [fF M Name[1] 'Jttnry last Name' 'W Bottses' fRwmng vwec games} [Fest Name' wy, last Name' 'W. 'Hobbes | N«pingf NeatHng'llJ

IfRtsl Name wy. last Name TiNe', Mottes' [Runnrg Y4eo games'll fFni Name UY las! Name' 'W. 'Hobtires'. I'Nappng Reading [{]

A. Option A

B. Option B

C. Option C

D. Option D

Answer: C

Explanation:

Question: 90

What is the purpose of data modeling languages?

A. to describe a data schema convertible into any data encoding format

B. to specify algorithms necessary to decode binary-encoded protocol data units

C. to translate encoded data for interoperability between different CPU architectures

D. to provide a framework to describe data flow patterns in networks

Answer: A

Explanation:

Question: 91

How does Cisco DNA Center perform a network discovery?

A. using SNMP

B. using ICMP

C. through a DHCP server

D. using CDP with a seed IP address

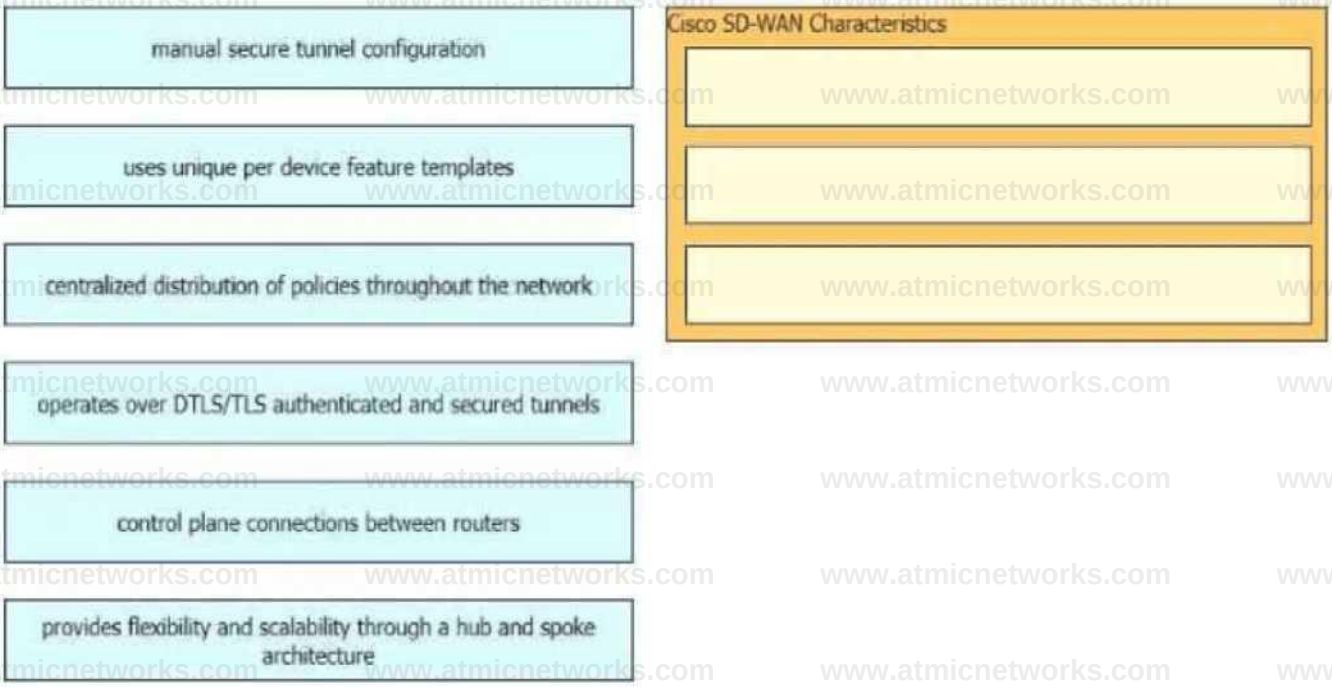
Answer: D

Explanation:

Question: 92

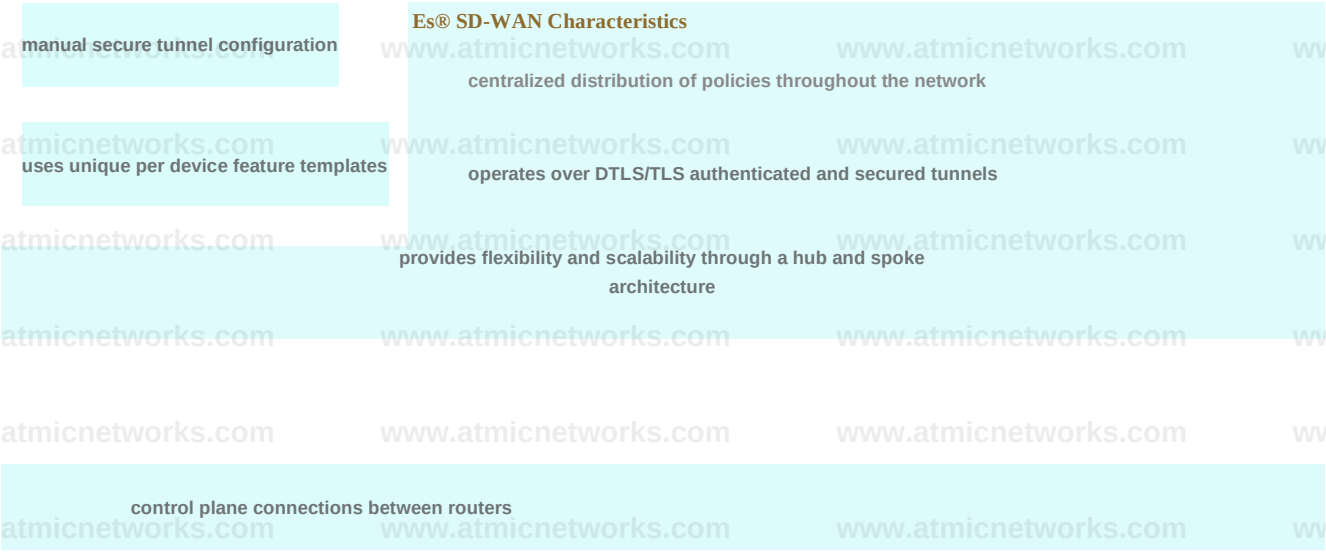
DRAG DROP

Drag and drop the characteristics of Cisco Catalyst SD-WAN from the left onto the right. Not all options are used.



Answer:

Explanation:



Question: 93

An engineer must protect their company against ransom ware attacks. Which solution allows the engineer to block the execution stage and prevent file encryption?

A. Use Cisco Firepower with Intrusion Policy and snort rules blocking SMB exploitation.

B. Use Cisco AMP deployment with the Malicious Activity Protection engine enabled.

C. Use Cisco AMP deployment with the Exploit Prevention engine enabled.

D. Use Cisco Firepower and block traffic to TOR networks.

Answer: B

Explanation:

Question: 94

How is Layer 3 roaming accomplished in a unified wireless deployment?

A. An EoIP tunnel is created between the client and the anchor controller to provide seamless connectively as the client is associated with the new AP.

B. The client entry on the original controller is passed to the database on the new controller.

C. The new controller assign an IP address from the new subnet to the client.

D. The client database on the original controller is updated with the anchor entry, and the new controller database is updated with the foreign entry.

Answer: D

Explanation:

Question: 95

Refer to the exhibit.

```
with manager.connect(host=192.168.0.1, port=22,
        username='admin', password='password1', hostkey_verify=True,
        device_params={'name':'nexus'}) as m:
```

What does the snippet of code achieve?

A. It creates a temporary connection to a Cisco Nexus device and retrieves a token to be used for API calls.

B. It opens a tunnel and encapsulates the login information, if the host key is correct.

C. It opens an ncclient connection to a Cisco Nexus device and maintains it for the duration of the context.

D. It creates an SSH connection using the SSH key that is stored, and the password is ignored.

Answer: C

Explanation:

Question: 96

Why would an architect use an OSPF virtual link?

A. to allow a stub area to transit another stub area

B. to merge two existing Area 0s through a nonbackbone

C. to connect two networks that have overlapping private IP address space

D. to connect a nonbackbone area to Area 0 through another nonbackbone area

Answer: D

Explanation:

Question: 97

Refer to the exhibit.

```
event manager applet config-alert
```

Refer to the exhibit. A network engineer must be notified when a user switches to configuration mode. Which script should be applied to receive an SNMP trap and a critical-level log message?

action 1.0 snmp-trap strdata 'Configuration change alarm*
action 2.0 syslog msg ‘Configuration change alarm'

action 1.0 snmp-trap strdata 'Configuration change critical alarm"

action 1.0 snmp-trap strdata 'Configuration change alarm*
action 1.0 syslog priority critical msg "Configuration change alarm"

action 1.0 snmp-trap strdata ‘Configuration change alarm"
action 1.1 syslog priority critical msg "Configuration change alarm"

A. Option A

B. Option B

C. Option C

D. Option D

Answer: D

Explanation:

Question: 98

DRAG DROP

Drag and drop the code snippets from the bottom onto the blanks in the script to convert a Python object into a JSON string. Not all options are used

import json

data * (
•Miiw«*nt*i "cefcFRUPcwerOperStttus", "maxDataPoints": 45, "alert": "True", "exxoxDescxiption": None, "devices": ("model": "Cisco 4331 ISP"), ("model"t "Cisco 3500 f"H

obj * json. [ ] u. [ ] ([ ]
print <ocj)

JSONEncoder

.encode

data

JSONDecoder

decode

Answer:

Explanation:

```
import json
data = {
  "measurement": "cefcFRUPowerOperStatus",
  "maxDataPoints": 45,
  "alert":  "True",
  "errorDescription": None,
  "devices": [{"model": "Cisco 4331 ISR"}, {"model": "Cisco 3500 S"}]
}

obj = json.JSONEncoder().  .encode  (  data  )

print(obj)
```

Question: 99

What are two characteristics of a directional antenna? (Choose two.)

A. high gain

B. receive signals equally from all directions

C. commonly used to cover large areas

D. provides the most focused and narrow beam width

E. low gain

Answer: A,D

Explanation:

Question: 100

Which two mechanisms are used with OAuth 2.0 for enhanced validation? (Choose two.)

A. custom headers

B. authentication

C. authorization

D. request management

E. accounting

Answer: B,C

Explanation:

Question: 101

Why does the vBond orchestrator have a public IP?

Why does the vBond orchestrator have a public IP?

A. to enable vBond to learn the public IP of WAN Edge devices that are behind NAT gateways or in private address space

B. to facilitate downloading and distribution of operational and security patches

C. to allow for global reachability from all WAN Edges in the Cisco SD-WAN and to facilitate NAT traversal

D. to provide access to Cisco Smart Licensing servers for license enablement

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Answer: C

Explanation:

Question: 102

Which two functions is an edge node responsible for? (Choose two.)

A. provides multiple entry and exit points for fabric traffic

B. provides the default exit point for fabric traffic

C. provides the default entry point for fabric traffic

D. provides a host database that maps endpoint IDs to a current location

E. authenticates endpoints

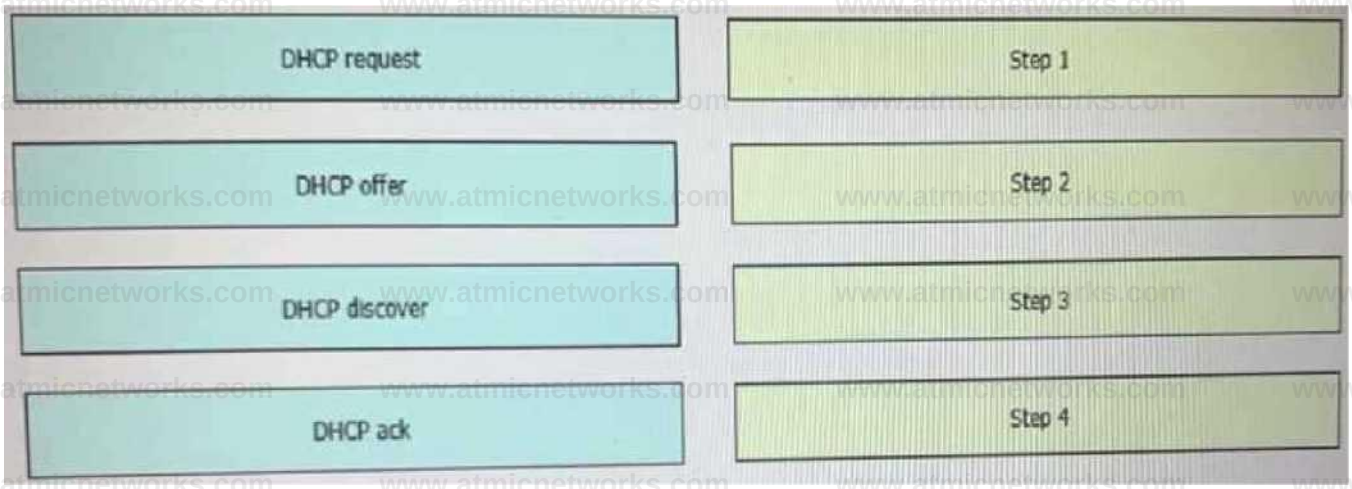
Answer: A,D

Explanation:

Question: 103

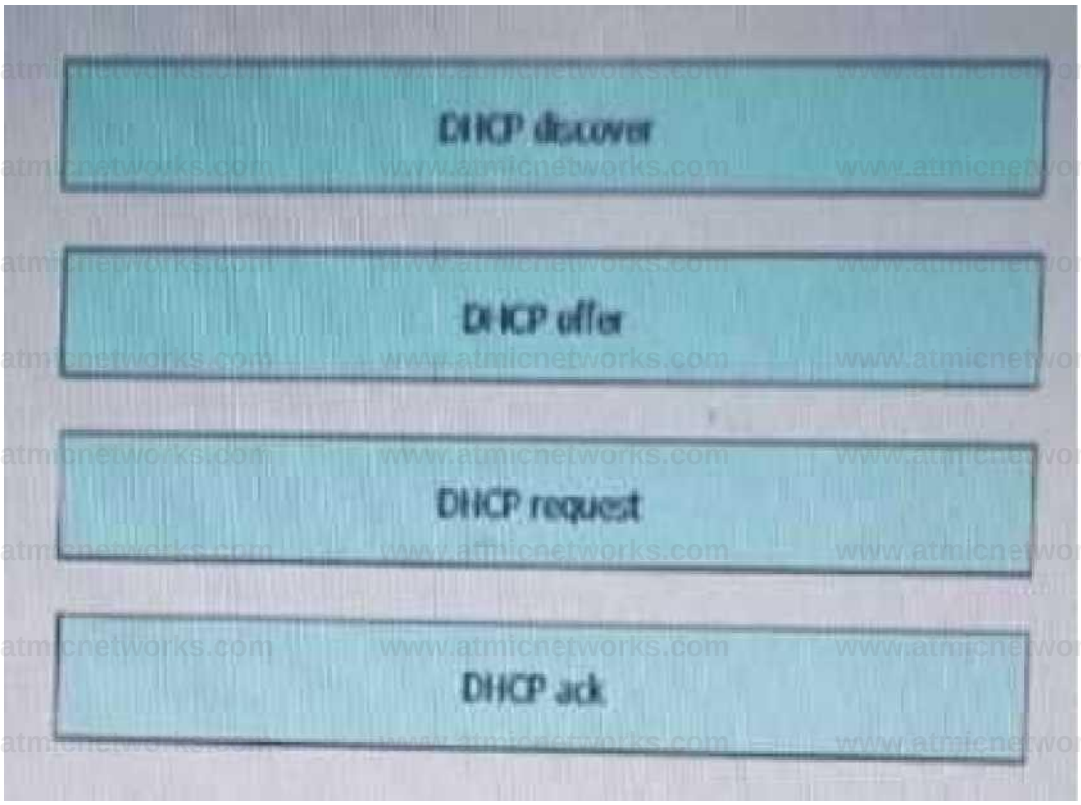
DRAG DROP

Drag and drop the DHCP messages that are exchanged between a client and an AP into the order they are exchanged on the right.



Answer:

Explanation:



Question: 104

Which language defines the structure or modelling of data for NETCONF and RESTCONF?

A. JSON

B. YANG

C. XML

D. YAML

Answer: B

Explanation:

Question: 105

In a Cisco SD-WAN solution, which two functions are performed by OMP? (Choose two.)

A. advertisement of network prefixes and their attributes

B. configuration of control and data policies

C. gathering of underlay infrastructure data

D. delivery of crypto keys

E. segmentation and differentiation of traffic

Answer: A,D

Explanation:

Question: 106

Which definition describes JWT in regard to REST API security?

A. an encrypted JSON token that is used for authentication

B. an encrypted JSON token that is used for authorization

C. an encoded JSON token that is used to securely exchange information

D. an encoded JSON token that is used for authentication

Answer: A

Explanation:

Question: 107

Which access control feature does MAB provide?

A. user access based on IP addressB slows devices to bypass authentication

B. network access based on the physical address of a device

C. simultaneous user and device authentication

Answer: C

Explanation:

Question: 108

Refer to the exhibit.

```
from ncclient import manager

netconf_host = manager.connect(host='ios-xe-example.com',
                               port=22,
                               username='cisco',
                               password='cisco',
                               hostkey_verify=False,
                               device_params={'name':'iosxe'})
print (netconf_host.get_config('running'))
netconf_host.close_session()
```

Refer to lhe exhibit. An engineer deploys a script to retrieve the running configuration from a NETCONF-capable CiscoIOSXE device that Is configured with default settings. The script fails. Which configuration must be applied to retrieve the configuration using NETCONF?

print (netconfhost.getconfigfshow running'))

deviceparams^Cname'/ios-xe'})

port«830

hotthyjerifysTrue.

A. Option A

B. Option B

C. Option C

D. Option D

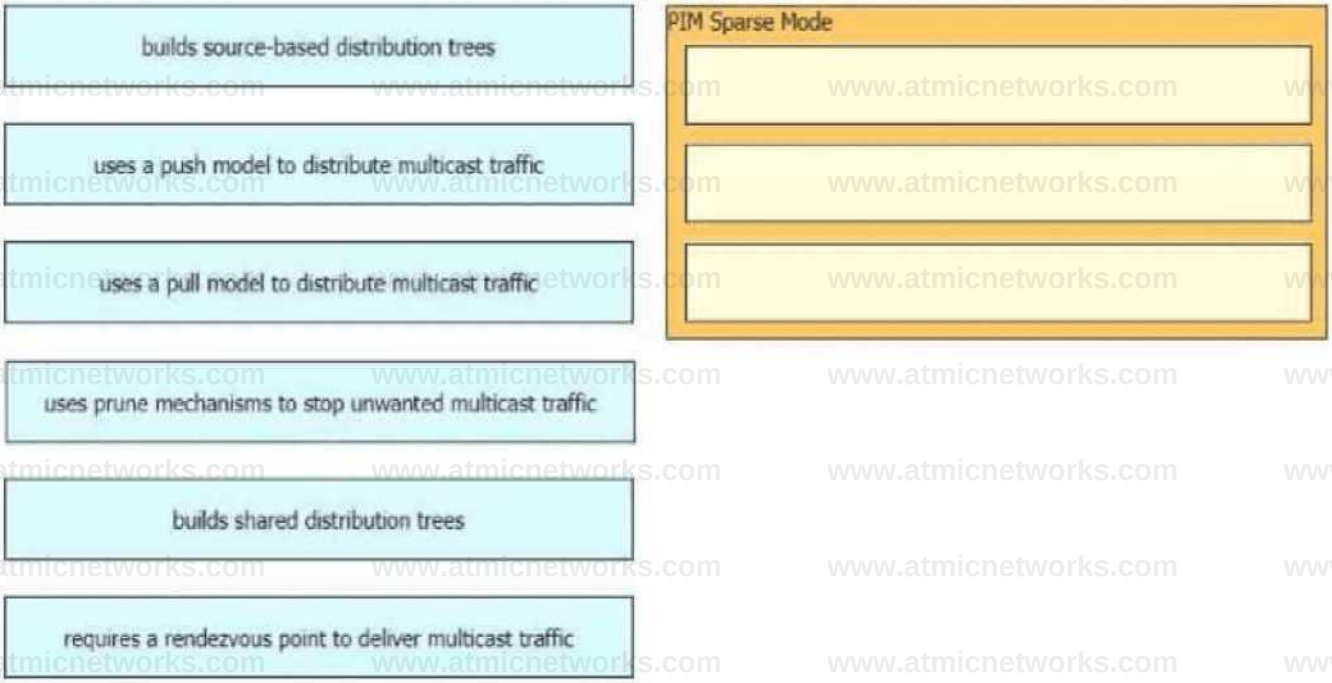
Answer: C

Explanation:

Question: 109

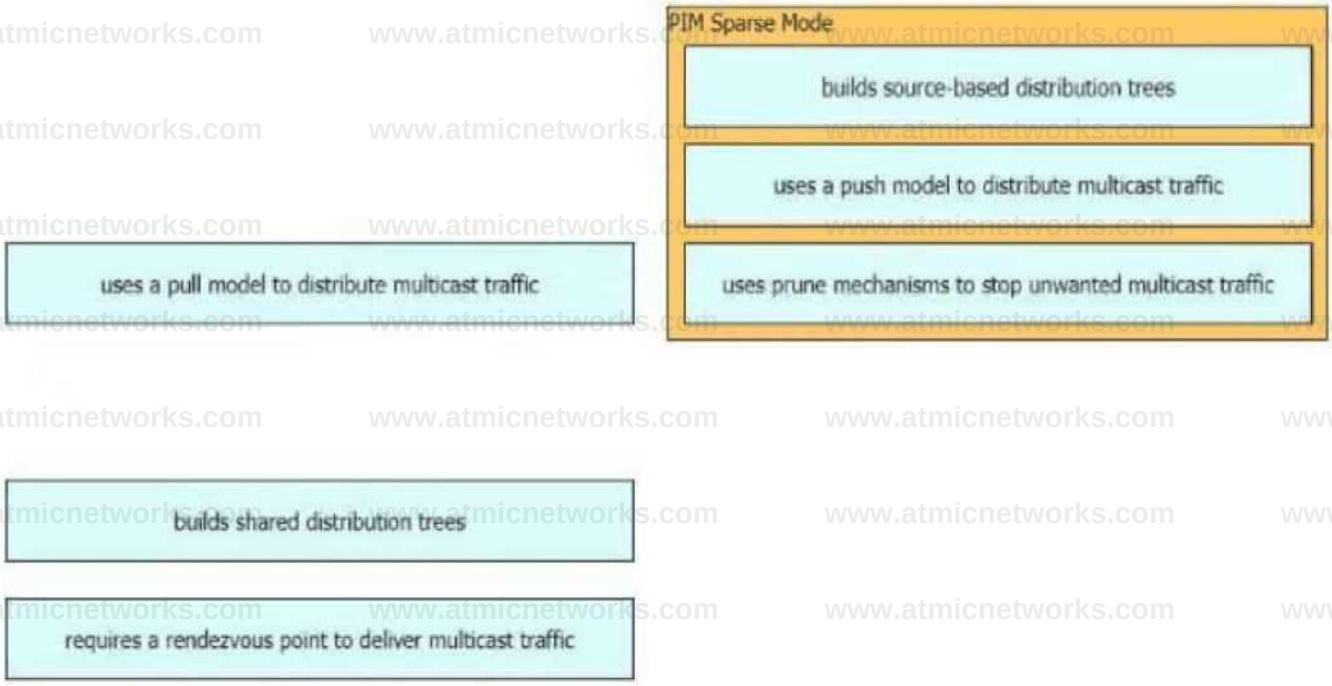
DRAG DROP

Drag and drop the characteristics of PIM Sparse Mode from the left to the right. Not all options are used.



Answer:

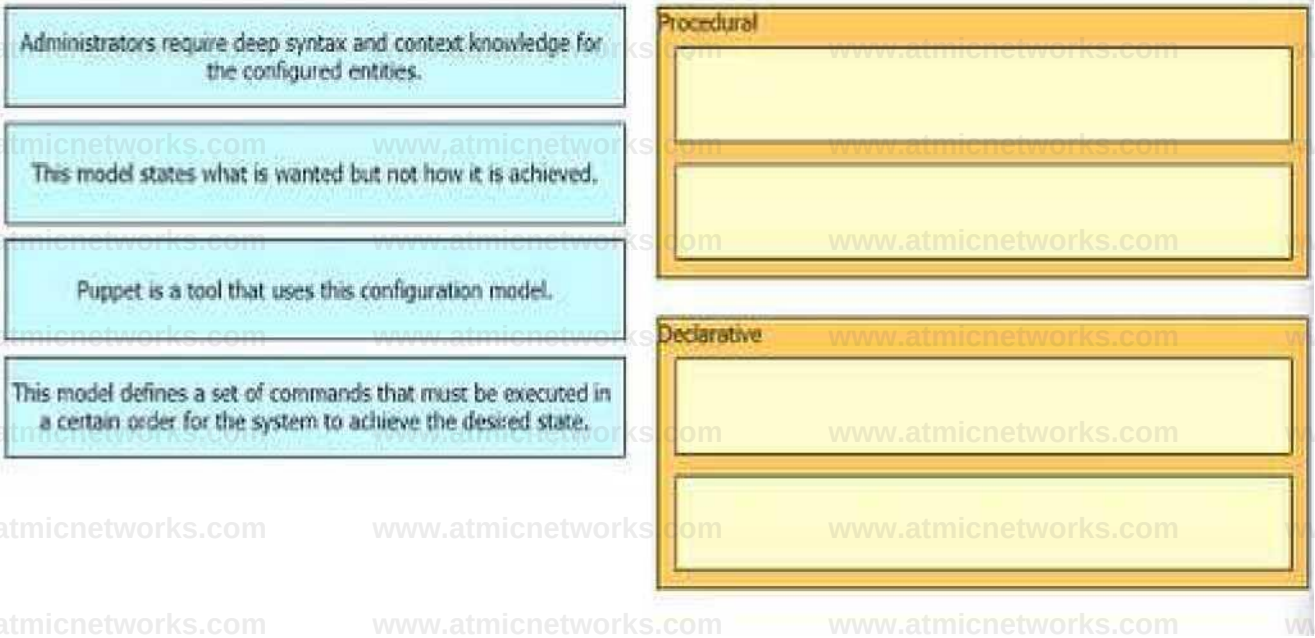
Explanation:



Question: 110

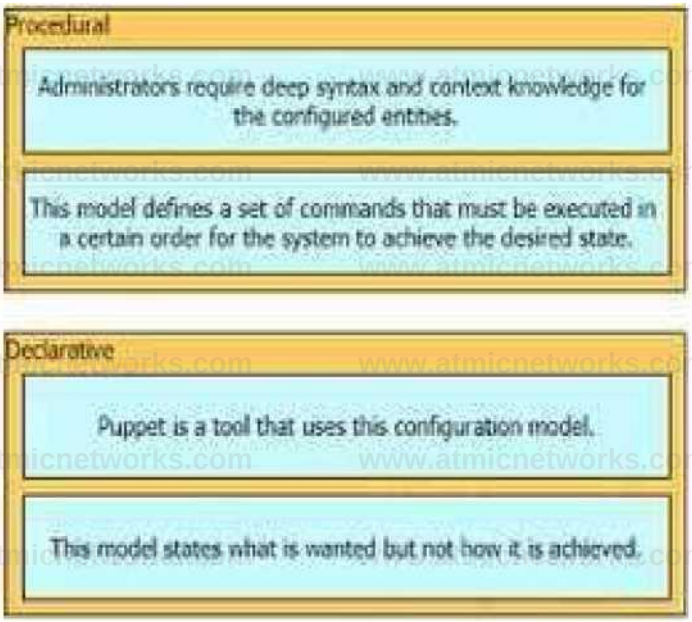
DRAG DROP

Drag anti drop the characteristics from the ten onto the configuration models on the right.



Answer:

Explanation:



Question: 111

Which tool functions in a push model, supports languages like Python or Ruby, and does not require

an agent to be installed per host?

A. Puppet

B. Ansible

C. Saltstack

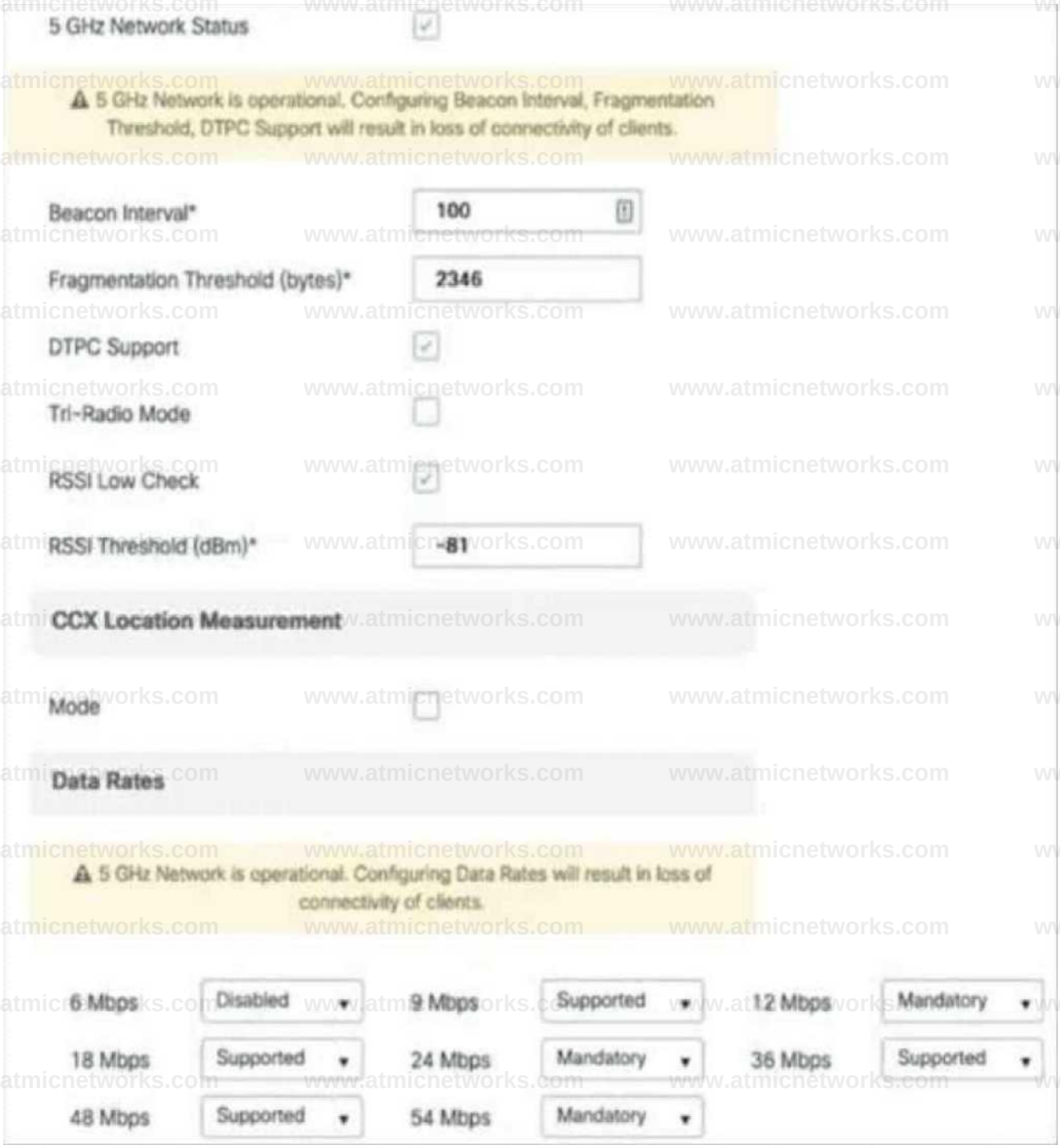
D. Chef

Answer: B

Explanation:

Question: 112

Refer to the exhibit.



Refer to the exhibit. A customer reports that many wireless clients cannot reliably receive multicast audio. Which action resolves this issue?

A. Set the 24 Mbps and 54 Mbps data rates to Supported.

B. Set the RSSI Threshold to -67dBm.

C. Set the Fragmentation Threshold to 1250 bytes

D. Disable RSSI Low Check.

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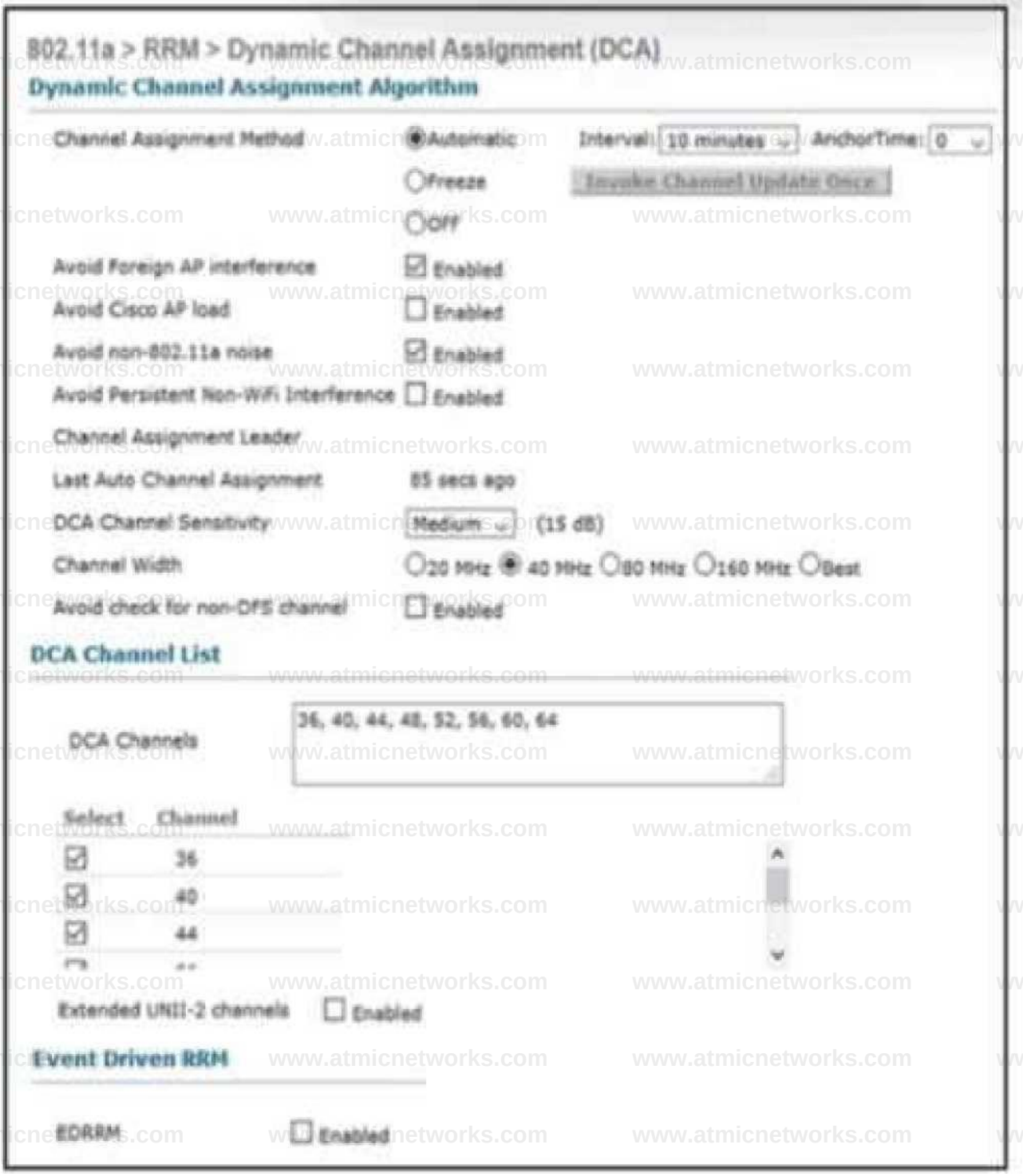
Explanation:

Answer: A

Question: 113

Refer to the exhibit.



Refer to the exhibit An engineer is troubleshooting an issue with non-Wi-Fi interference on the 5-GHz band The engineer has enabled Cisco CleanAir and set the appropriate traps, but the AP does not change the channel when it detects significant interference Which action will resolve the issue?

A. Enable the Avoid Persistent Non-WiFi Interference option

B. Disable the Avoid Foreign AP Interference option.

C. Change the DCA Sensitivity option to High

D. Enable the Event Driven Radio Resource Management option

Answer: D

Explanation:

Question: 114

Which technology is the Cisco SD-Access control plane based on?

A. LISP

B. CTS

C. SGT

D. VRF

Answer: A

Explanation:

Question: 115

Which two methods are used to assign security group tags to the user in a Cisco Trust Sec architecture? (Choose two.)

A. modular QoS

B. policy routing

C. web authentication

D. DHCP

E. IEEE 802.1x

Answer: C,E

Explanation:

Question: 116

Refer to the exhibit.

```
Status Code: 202
Body:
{
  "response": {
    "startTime": 1630851541471,
    "endTime": 1630851541523,
    "version": 1630851541514,
    "serviceType": "Discovery Service",
    "isError": false,
    "lastUpdate": 1630851541514,
    "progress": "1",
    "rootId": "2cbb8965-7562-7832-a4c7-88a97594411c",
    "instanceTenantId": "4cc6582496acb689cb4ca6be",
    "id": "2cbb8965-7562-7832-a4c7-88a97594411c "
  },
  "version": "1.0"
}
```

Refer to the exhibit. A POST /discovery request spawns an asynchronous task. After querying for more information about the task, the Cisco DNA Center platform returns the REST API response. What is the status of the discovery task?

A. restarted

B. failed

C. stopped

D. successful

Answer: D

Explanation:

Question: 117

Ascriptcontainsthe statement white loop != 999 ' Which value terminates the loop?

A. A value equal to 999.

B. A value not equal to 999.

C. A value greater than or equal to 999.

D. A value less than or equal to 999.

Answer: A

Explanation:

Question: 118

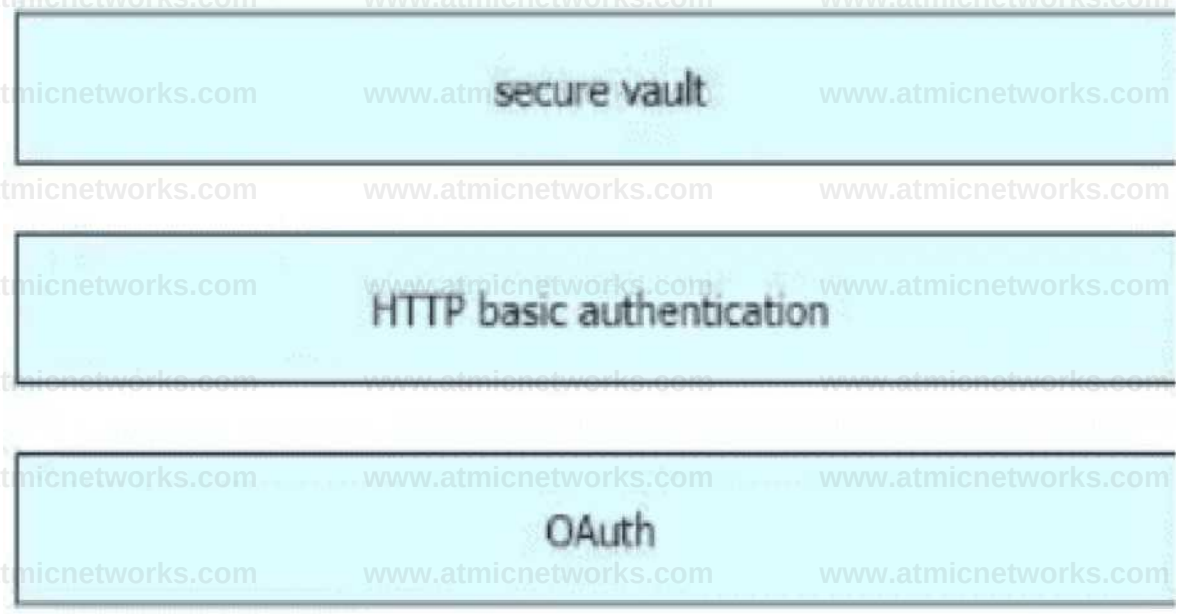
DRAG DROP

Drag and drop the REST API authentication methods from the left onto their descriptions on the right.

HTTP basic authentication	public API resource
OAuth	username and password in an encoded string
secure vault	authorization through identity provider

Answer:

Explanation:



Question: 119

What is the primary responsibility of the vBond orchestrator?

A. to provide centralized management and provisioning of all elements into the network

B. to configure NAT communication on WAN Edge routers

C. to provide configuration synchronization of an WAN Edge devices

D. to facilitate start-up by performing authentication and authorization of all elements into the network

Answer: D

Explanation:

Question: 120

What is the calculation that is used to measure the radiated power of a signal after it has gone through the radio, antenna cable, and antenna?

A. EIRP

B. mW

C. dBm

D. dBi

Answer: A

Explanation:

Question: 121

Which location tracking method is used when locating client devices using Cisco hyperlocation?

A. angle of arrival

B. location patterning

C. TTL

D. line of sight

Answer: A

Explanation:

Question: 122

With IGMPv2, which multicast group address does the IGMP querier use to send query messages to all hosts on the LAN?

A. 239.0.0.2

B. 224.0.0.1

C. 239.0.0.1

D. 224.0.0.2

Answer: B

Explanation:

Question: 123

Which Cisco Catalyst SD-WAN component is responsible for distributing data plane traffic policies?

A. vBond

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B. vManage

C. vSmart

D. WAN edge

Answer: C

Explanation:

Question: 124

Which new security enhancement is introduced by deploying a next-generation firewall at the data center in addition to the Internet edge?

A. virtual private network for remote access

B. DDoS protection

C. firewall protection of the east-west traffic at the data center

D. firewall protection of the south-north traffic at the data center

Answer: A

Explanation:

Question: 125

Which two nodes comprise a collapsed core in a two-tier Cisco SD-Access design? (Choose two.)

A. edge nodes

B. distribution nodes

C. extended nodes

D. core nodes

E. border nodes

Answer: B,D

Explanation:

Question: 126

What is a characteristic of an AP that operates in FlexConnect mode?

A. Configuration is done directly on the AP rather than on a controller.

B. Dot1x authentication is not supported for AP clients in this mode.

C. Client authentication is always performed on the A P.

D. FlexConnect groups are required to support 802.11 r fast roaming.

Answer: A

Explanation:

Question: 127

Why would a network engineer configure an AP in SE-Connect mode?

A. to redirect WLAN traffic to an endpoint for protocol analysis

B. to monitor the VLAN traffic for rogue APs

C. to connect the wired LAN with the wireless infrastructure

D. to analyze the RF spectrum surrounding the AP

Answer: D

Explanation:

Question: 128

What are two of benefits of using VXLAN? (Choose two.)

A. It allows for an unlimited number of segments.

B. It has fewer devices to manage.

C. It uses all available Layer 3 paths in the underlying network.

D. It allows multi-tenanted segmentation.

E. It uses a MAC in IP/TCP encapsulation technique.

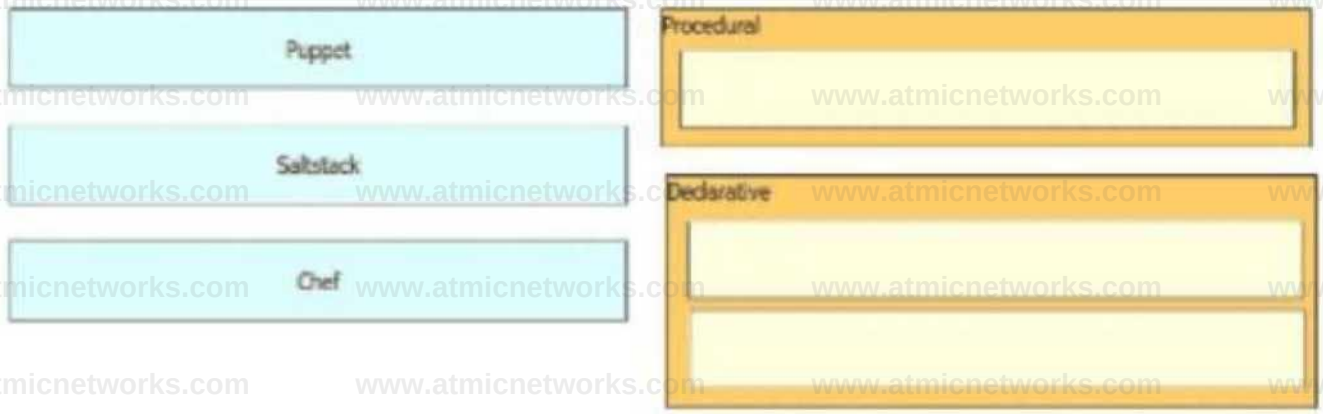
Answer: A,C

Explanation:

Question: 129

DRAG DROP

Drag and drop the configuration management tools from the left onto the configuration styles they use on the right



Answer:

Explanation:

PROCEDURAL - CHEF

DECALRATIVE – PUPPET

SALTSTACK

Question: 130

Which method does FastLocate use to collect location-based information?

A. RFID

B. client probing

C. beacons

D. data packets

Answer: B

Explanation:

Question: 131

Which controller is the single plane of management for Cisco SD-WAN?

A. vBond

B. vEdge

C. vSmart

D. vManage

Answer: D

Explanation:

Question: 132

Refer to the exhibit. An engineer must adjust the configuration so that Router A becomes the active router. Which commands should be applied to router A? (Choose two)

Router A
RouloriconfKj^ interlace GigabiEthemet 1/0/0 Router (con fig'll^ ip address '0101 255.0.0.0
Router (con fig-dj# vnp 1 pnonty 100
Router(config-if)# vrrp 1 authentication osco Routw(cwhcH 'S vnp 1 timers advertise 3 Router (config'll |# vrrp 1 timers learn Routor(cwfig-if)# vrrp 1 ip 10.1.0.10

Route* B
Rouf erfcwhg}# interface GigaiiiEihemet WO RodHr(cwfig-if p ip address 10 1 0 2 255 0 0 0 Router (con fig-if}# vrrp 1 pnonty 110
Routed con fig-if)# vrrp 1 authentication cisco
Router (con fig-if j# vrrp 1 timers advertise 3 Rode*(config-if)# vnp 1 timers learn Router (config-if)# vnp 1 ip 10 1 0.11

A. vrrp 1 priority 90

B. vrrp 1 timers advertise 1

C. vrrp lip 10.1.0.11

D. ip address 10.1.0.11 255.0.0.0

E. vrrp 1 priority 120

Answer: C,E

Explanation:

Question: 133

What is used by vManage to interact withCiscoSD-WAN devices in the fabric?

A. northbound API

B. RESTCONF

C. Southbound API

D. IPsec

Answer: C

Explanation:

Question: 134

Which IEEE standard provides the capability to permit or deny network connectivity based on the user or device identity?

A. 802. 1d

B. 802.1x

C. 802.1q

D. 802.1w

Answer: B

Explanation:

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Question: 135

What is one main REST security design principle?

A. separation of privilege

B. password hashing

C. confidential algorithms

D. OAuth

Answer: A

Explanation:

Question: 136

Which method ensures the confidentiality of data exchanged over a REST API?

A. Use TLS to secure the underlying HTTP session.

B. Use me POST method Instead or URL-encoded GET to pass parameters.

C. Deploy digest-based authentication to protect the access to the API.

D. Encode sensitive data using Base64 encoding.

Answer: A

Explanation:

Question: 137

A response code of 404 is received while using the REST API on Cisco UNA Center to POST to this URI.

/dna/intent/api/v1 /template-programmer/project

What does the code mean?

A. The client made a request a resource that does not exist.

B. The server has not implemented the functionality that is needed to fulfill the request.

C. The request accepted for processing, but the processing was not completed.

D. The POST/PUT request was fulfilled and a new resource was created, Information about the resource is in the

response body.

Answer: A

Explanation:

Question: 138

Which characteristics applies to Cisco SD-Access?

A. It uses dynamic routing to discover and provision the border and edge switches

B. It uses VXLAN for the control plane

C. It uses PnP to discover and provision border and access switches

D. It uses GRE tor me policy plane

Answer: C

Explanation:

Question: 139

What is the intent API in Cisco Catalyst Center (formerly DNA Center)?

A. northbound consumer-facing RESTful API, which enables network discovery and configuration management

B. southbound consumer-facing RESTful API. which enables network discovery and configuration management

C. interface between the controller and the network devices, which enables network discovery and configuration management

D. westbound interface, which allows the exchange of data such as ITSM. IPAM, and reporting information

Answer: A

Explanation:

Question: 140

What is one characteristic of Cisco SD-Access networks?

A. Devices are assigned to virtual networks based on their VLAN membership.

B. Scalable group tags are used for macrosegmentatlon.

C. Virtual networks are used for microsegmentation.

D. All traffic is Layer 3 within the fabric.

Answer: B

Explanation:

Question: 141

What is an advantage of utilizing data models in a multivendor environment?

A. facilitating a unified approach to configuration and management

B. improving communication security with binary-encoded protocols

C. lowering CPU load incurred to managed devices

D. removing the distinction between configuration and runtime state data

Answer: A

Explanation:

Question: 142

Which AP mode allows an engineer to scan configured channels for rogue access points?

A. sniffer

B. monitor

C. bridge

D. local

Answer: B

Explanation:

Question: 143

What is one characteristic of an AP that is operating in Mobility Express mode?

A. It is recommended for large scale deployments.

B. It requires a centralized WLC.

C. At least three APs are needed for WLC redundancy.

D. It requires an AP to act as a WLC.

Answer: D

Explanation:

Question: 144

An engineer is configuring RADIUS-Based Authentication with EAP. MS-CHAPv2 is configured on a client device. Which outer method protocol must be configured on the ISE to support this authentication type?

A. EAP-TLS

B. EAP-FAST

C. LDAP

D. PEAP

Answer: D

Explanation:

Question: 145

What is a characteristic of VXLAN?

A. It extends Layers 2 and Layer 3 overlay network over a Layer 2 underly.

B. It has a 12-byte packet header.

C. Its frame encapsulation is performed by MAC-in-UDP.

D. It uses TCP for transport

Answer: C

Explanation:

Question: 146

Which device makes the decision for a wireless client to roam?

A. wireless client

B. Wireless LAN controller

C. access point

D. WCS location server

Answer: A

Explanation:

Question: 147

Refer to the exhibit.

```
Router# show running-config
! lines omitted for brevity

username cisco password 0 cisco

aaa authentication login group1 group radius line

line con 0

password 0 cisco123

login authentication group1

line vty 0 4

password 0 cisco
```

Refer to the exhibit. Authentication for users must first use RADIUS, and fall back to the local database on the router if the RADIUS server is unavailable Which two configuration sets are needed to achieve this result? (Choose two.)

aaa authentication login group2 group radius none

line vty 0 4
login authentication group2

aaa authentication login group2 group radius enable

aaa authentication login group2 group radius local

line con 0
login authentication group2

A. Option A

B. Option B

C. Option C

D. Option D

Answer: B,D

Explanation:

Question: 148

In Cisco CatalystCenter(formerly DNA Center) Inventory, the Software Version of a networkdevice displays a status of OUTDATED. What does It me?

A. There is a later software version available on Cisco Catalyst Center (formerly DNA Center).

B. The current software image does not match the selected Golden image for this type of network device.

C. The current type of software image does not match the type of the network device.

D. There is a later software version available at www.cisco.com website.

Answer: B

Explanation:

Question: 149

What is a Type 1 hypervisor?

A. runs directly on a physical server and depends on a previously installed operating system

B. runs directly on a physical server and includes its own operating system

C. runs on a virtual server and depends on an already installed operating system

D. run on a virtual server and includes its own operating system.

Answer: B

Explanation:

Question: 150

Whichtwo benefits result from a network design mat uses small and repeatable sections? (Choose two.)

A. lower monitoring requirements

B. low latency

C. scalability

D. quick failure isolation

E. improved throughput

Answer: C,D

Explanation:

Question: 151

An engineer must create a new SSID on a Cisco 9800 wireless LAN controller. The client has asked to use a pre-shared key for authentication. Which profile must the engineer edit to achieve this requirement?

A. RF

B. WLAN

C. Policy

D. Flex

Answer: B

Explanation:

Question: 152

Which mobility role is assigned to a client in the client table of the new controller after a Layer 3 roam?

A. anchor

B. foreign

C. mobility

D. transparent

Answer: C

Explanation:

Question: 153

Which framework is used for third-party authorization?

A. API keys

B. custom tokens

C. OAuth

D. SOAP

Answer: C

Explanation:

Question: 154

Refer to the exhibit.

```
import json
from requests import get

Headers = { "Content-Type" : "application/yang-data+json",
            "Accept" : "application/yang-data+json" }

Devices = open("devices.txt", "r")

for Device in Devices.readlines():
  Hostname, IP, Login, Pass = Device.strip().split(",")
  URL = f"https://{IP}/restconf/data/Cisco-IOS-XE-native:native"
  Creds = (Login, Pass)
  Response = get(URL, auth = Creds, headers = Headers, verify = False)
```

Refer to the exhibit. How should the script be completed so that each device configuration is saved into a JSON-formatted file under the device name?

Insert after the for loop:

```
with open(f'{Hostname}.json", "w") as OutFile:
  OutFile.write(Response)
```

Insert after the for loop:

```
with open(f'{HostnameJ.json", "w") as OutFile:
  OutFile.write(json.dumps(Response.text))
```

Append to the body of the for loop:

```
with open(f'{Hostname}.json", "w") as OutFile:
  OutFile.write(Response.text)
```

Insert immediately before the for loop:

```
with open(f'{Hostname}.json", "w") as OutFile:
  OutFile.write(json.load(Devices))
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: A

Explanation:

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Question: 155

What is the data policy in a Cisco SD-WAN deployment?

A. list of ordered statements that define node configurations and authentication used within the SD- WAN overlay

B. set of statements that defines how data is forwarded based on IP pocket information and specific VPNs

C. detailed database mapping several kinds of addresses with their corresponding location

D. group of services tested to guarantee devices and links liveliness within the SD-WAN overlay

Answer: B

Explanation:

1 and 3 – Configuration
4 and 5 – Orchestration

Question: 156

In a campus network design, what are two benefits of using BFD for failure detection'? (Choose two.)

A. BFD speeds up routing convergence time

B. BFD provides path failure detection in less than a second

C. BFD provides fault tolerance by enabling multiple routers to appear as a single virtual router

D. BFD is an efficient way to reduce memory and CPU usage

E. BFD enables network peers to continue forwarding packets in the event of a restart

Answer: A,B

Explanation:

Question: 157

A customer requires their wireless data traffic to egress at the switch port of the access point. Which access point mode supports this?

A. Bridge

B. Sniffer

C. FlexConnect

D. Monitor

Answer: C

Explanation:

Question: 158

Refer to the exhibit.

```
event snmp oid 1.3.6.1.4.1.9.9.109.1.1.1.1.3 get-type next entry-op gt entry-val 80 poll-interval 5

action 1.0 cli command "enable"
action 2.0 syslog msg "high cpu"
action 3.0 cli command "term length 0"
```

Refer to the exhibit. An engineer must create a script that appends the output of the show process cpu sorted command to a file.

A. action 4.0 syslog command "show process cpu sorted | append flash:high-cpu-file"

B. action 4.0 cli command "show process cpu sorted | append flash:high-cpu-file"

C. action 4.0 ens-event "show process cpu sorted | append flash:high-cpu-file"

D. action 4.0 publish-event "show process cpu sorted | append flash:high-cpu-file"

Answer: B

Explanation:

Question: 159

What is the recommended minimum SNR for data applications on wireless networks?

A. 15

B. 20

C. 25

D. 10

Explanation:

Answer: C

Question: 160

Refer to the exhibit.

```
args_dict = {'1st_item':'645298791871446',
             '2nd_item_that_must_display':'jlugyydt'}
for key,value in args_dict.items():
    txt='{:#<15} : {:#<10}'.format(key,str(value))
    print(txt)
```

Refer to the exhibit. What is the output of this code?

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IsHten#######: 6452987918
2nd_item_that_m: jlugyydt##

1st .fem#######: 0791871446 at_must_display: jlugyydt

1 si item####### : 645298791071446
2nd_item_that_mijst_dfSplay jlugyydt##

' 645298791871446
jlugyydt

A. Option A

B. Option B

C. Option C

D. Option D

Answer: D

Explanation:

Question: 161

Which unit of measure is used to measure wireless RF SNR?

A. mw

B. dbm

C. db

D. dBi

Answer: C

Explanation:

Question: 162

Which data is properly formatted with JSON?

```
{
        "name":"Peter"
        "age":"25"
        "likesJson":true
        "characteristics":["small","strong",18]
}
```

```
{
        "name": "Peter",
        "age": "25",
        "likesJson": true,
        "characteristics": ["small","strong","18"],
}
```

```
{
        "name": "Peter",
        "age": "25",
        "likesJson": true,
        "characteristics": ["small","strong",18]
}
```

```
{
        "name":  Peter,
        "age": 25,
        "likesJson": true,
        "characteristics": ["small","strong","18"],
}
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: C

Explanation:

Question: 163

Refer to the exhibit.

```
»> netconf data(XjiqabitEthemer]|O]renabl^
□‘false'
»> netconf datafGigabit Ethernet"|| 1 If'enabled*]
□'true'
>» netconf data("GigabitEthefnet'][2]['enabled1
□la lse*
»> netcontdatal’GigabitEthemerjlOK’description*)
u‘my description4
```

Refer to the exhibit. Which python code snippet prints the descriptions of disabled interface only?

```
l« interface m netconf jfafaf'G^abilEtbernet"] it rtHter1ace[hen<i)Je J p- time pnntf inter fac epjescn
                pborT])

l fol inter (ace <n netconf dafarGtrptrtEtherne^ if interfacef enstJerT] I- laiw
                p<inE(infptdte['jtescn|?lwr] i

fen interface tn netrmf (WtafG^ if irteifactfenabiecn t- hue' pnM( k <a faterdeitiiptjon' |)

tor interface m netconf dalaf G*gabrtElhefneT| pnnUtmerfat efttf. *WecT^
                pmtyrtertacepdescriptor'!)
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: C

Explanation:

Question: 164

An engineer must configure a new 6 Ghz only SSID on a cisco catalyst 9800 series WLC, with these requirements:

Provide 802.11ax data rates for supported devices

All users authenticate using a certificate

Which wireless layer 2 security mode meets the requirements?

A. WPA2 Enterprise

B. WPA3 Personal

C. WPA2 Personal

D. WPA3 Enterprise

Answer: D

Explanation:

Question: 165

An engineer measures the Wi-Fi coverage at a customer site. The RSSI values are recorded as follows:

- LocationA -72dBm
- Location B:-75 dBm
- Location C; -65 dBm
- Location D -80 dBm

Which two statements does the engineer use to explain these values to the customer? (Choose two.)

A. The signal strength at location B is 10 dB better than location C.

B. The signal strength at location C is too weak to support web surfing

C. Location D has the strongest RF signal strength.

D. The RF signal strength at location B is 50% weaker than location A.

E. The RF signal strength at location C is 10 times stronger than location B

Answer: B,E

Explanation:

Question: 166

Which NGFW mode block flows crossing the firewall?

A. Passive

B. Tap

C. Inline tap

D. Inline

Answer: D

Explanation:

Question: 167

DRAG DROP

Drag and drop the snippets onto the blanks within the code to construct a script that brings up the failover Ethernet port if the primary port goes down and also shuts down the failover port when the primary returns to service. Not all options are used.

event aanager applet WV-l-Up
event By slog pattern * Vine protocol on Interface CigiblttlMMtl/#/). changed state to action 1.0 ell ocaMad "enable"
action 2.0 oil coaaand "configure toialnal*
action 1.0 ell cenaand "Interface aigabl titharnat 1/0/10*
action 4.0 ell coaaand "no shutdown"
action 10 cli coaaand "end"

1 . chuqed Itai* to up"

action 1 .0 nil coanaad "enable*
2 .0 ell coaaand "con fl gun toi*lnal"
action--- 1.0 ell coaaand •Jn»arfacw_G;oahitIthernot 1/0/10 ion 4.0 ell coaaand 'J *

Shutdosn | Up | GgaMHhametVO/lO
No IhuMonn | Down | Gort»tith«*net*/Cc 9

Answer:

Explanation:

```
event manager applet SRV-1-Up
 event syslog pattern "Line protocol on Interface GigabitEthernet4/0/9, changed state to [Down]"
 action 1.0 cli command "enable"
 action 2.0 cli command "configure terminal"
 action 3.0 cli command "Interface GigabitEthernet3/0/10"
 action 4.0 cli command "no shutdown"
action 5.0 cli command "end"
event manager applet SRV-1-Down
 event syslog pattern "Line protocol on Interface [GigabitEthernet4/0/9], changed state to up"
 action 1.0 cli command "enable"
 action 2.0 cli command "configure terminal"
 action 3.0 cli command "Interface GigabitEthernet3/0/10"
 action 4.0 cli command "[Shutdown]"
action 5.0 cli command "end"
```

Up | GigabitEthernet3/0/10

No shutdown

Question: 168

Which two conditions occur when the primary route processor fails on a switch thatisusing dual route processors with stateful switchover? (Choose two.)

A. Data forwarding is stopped until the routing protocols reconverge after the switchover.

B. The standby route processor initialization is started when the primary router processor fails.

C. The standby route processor is fully initialed and state information is maintained.

D. User sessions are immediately recreated on the new active route processor.

E. Data forwarding can continue along known paths until routing protocol information is restored.

Answer: C,E

Explanation:

Question: 169

Which language can be used to model configuration and state data?

A. JSON

B. XML

C. XDR

D. YANG

Answer: D

Explanation:

Question: 170

Which features does Cisco EDR use to provide threat detection and response protection?

A. containment, threat intelligence, and machine learning

B. firewalling and intrusion prevention

C. container-based agents

D. cloud analysts and endpoint firewall controls

Answer: A

Explanation:

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Question: 171

What does the LAP send when multiple WLCs respond to the CISCO_CAPWAP- CONTROLLER.localdomain hostname during the CAPWAP discovery and join process?

A. broadcast discover request

B. join request to all the WLCs

C. unicast discovery request to each WLC

D. Unicast discovery request to the first WLS that resolves the domain name

Answer: D

Explanation:

Question: 172

DRAG DROP

An engineer must create a script to append and modify device entries in a JSON-formatted file. The script must work as follows:

Until interrupted from the keyboard, the script reads in the hostname of a device, its management IP address, operating system type, and CLI remote access protocol.

After being interrupted, the script displays the entered entries and adds them to the JSON-formatted file, replacing existing entries whose hostname matches.

The contents of the JSON-formatted file are as follows

"examplerourer": { ’ip": "203 0 113 r. "os": “ios-xe", "protocol": "ssh"

}

Drag and drop the statements onto the blanks within the code to complete the script. Not all options are used.

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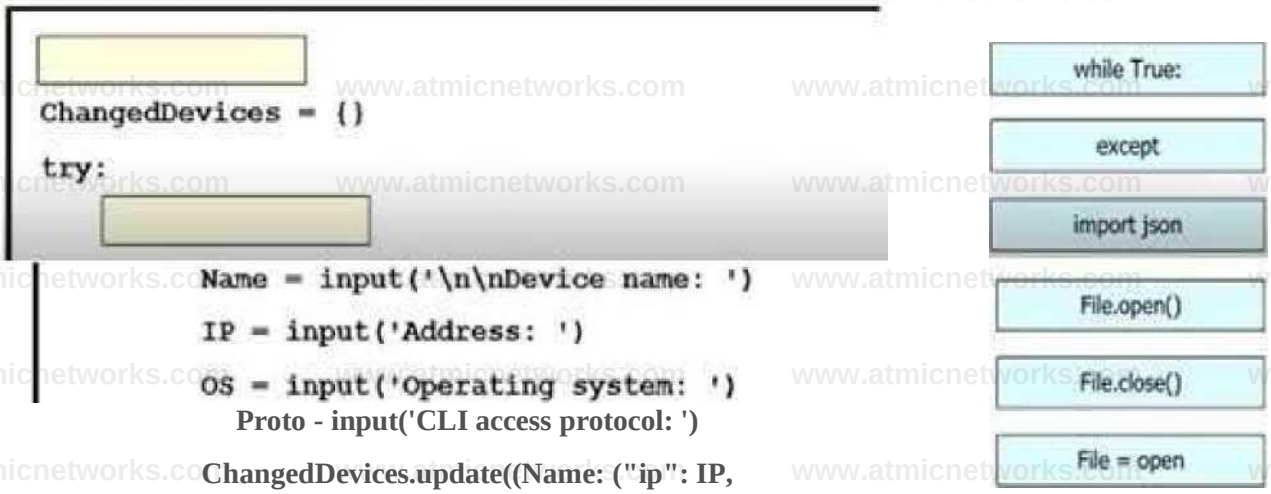


Proto - input('CLI access protocol: ')

ChangedDevices.update((Name: ("ip": IP,

os": OS, "protocol": Proto}})

(Keyboardinterrupt, EOFError):

pass

print ("\n\n—> Entered device entries <—") print(json.dumps(ChangedDevices, indent-4)) ("devicesData.json", "r+")

Devices - json.load(File)

Devices.update(ChangedDevices)

File.seek(O)

json.dump(Devices, File, lndent-4)

Explanation:

Answer:

top down - while true, file.open(), except, file = open, file.close()

Question: 173

Which solution simplifies management of secure access to network resources?

A. TrustSec to logically group internal user environments and assign policies
B. ISE to automate network access control leveraging RADIUS AV pairs

C. RFC 3580-based solution to enable authenticated access leveraging RADIUS and AV pairs

D. 802 1AE to secure communication in the network domain

Answer: C

Explanation:

Question: 174

In which forms can Cisco Catalyst SD-WAN routers be deployed at the perimeter of a site to provide SD-WAN services?

A. virtualized instances

B. hardware, software, cloud, and virtualized instances

C. hardware, virtualized. and cloud instances

D. hardware and virtualized instances

Answer: C

Explanation:

Question: 175

Which feature is needed to maintain the IP address of a client when an inter-controller Layer 3 roam is performed between two WLCs that are using different mobility groups?

A. interface groups

B. RF groups

C. AAA override

D. auto anchor

Answer: D

Explanation:

Question: 176

DRAG DROP

Drag and drop the code snippets from the bottom onto the blanks in the Python script to convert a Python object into a JSON string. Not all options are used.

```
import [          ]

data = {
  "measurement": "freeMemory",
  "maxDataPoints": 30,
  "alert": True,
  "policy": "1.2.1",
  "devices": [{"model": "Cisco 2921 ISR", "ipv4": '10.10.10.1'}]
}
model = data["devices"][0]["model"]

json_string = [          ] (data)

print( [          ] )
```

- model
- json.loads
- json
- json_string
- json.dumps

Answer:

Explanation:

```
import                    : non

data = ( "measurement": "freeMemory", "maxDataPoints": 30,
    "alert": True,
    "policy": "1.2.1", "devices": [{"model": "Cisco 2921 ISR", "ipv4": '10.10.10.1*}]
model = data["devices"][0]("model"]

]son_string =          json.L    jads          (data)

print(          i sun      sAl-HJ          l
```

```
json.dumps
```

Question: 177

What is one benefit of adopting a data modeling language?

A. deploying machine-friendly codes to manage a high number of devices

B. augmenting the use of management protocols like SNMP for status subscriptions

C. augmenting management process using vendor centric actions around models

D. refactoring vendor and platform specific configurations with widely compatible configurations

Answer: D

Explanation:

Question: 178

What occurs during a Layer 2 inter-controller roam?

A. A new security context is applied for each controller to which the client is associated, but the IP address remains the same.

B. The client must be associated to a new controller where a new IP address and security context are applied.

C. The client retains the same IP address and security context.

D. The client is marked as foreign in the database of each new controller to which it is connected.

Answer: C

Explanation:

Question: 179

A wireless network engineer must configure a WPA2+WPA3 policy with the Personal security type. Which action meets this requirement?

A. Configure the GCMP256 encryption cipher.

B. Configure the CCMP128 encryption cipher.

C. Configure the GCMP128 encryption cipher.

D. Configure the CCMP256 encryption cipher.

Answer: C

Explanation:

Question: 180

Which feature allows HSRP to failover from the active route processor to the standby route processor without loss of data or path change?

A. preemption

B. IP SLA tracking

C. stateful switchover

D. HSRP tracking

Answer: C

Explanation:

Question: 181

What is a characteristic of Layer 3 roaming?

A. Clients must obtain a new IP address when they roam between APs.

B. It provides seamless roaming between APs that are connected to different Layer 3 networks and different mobility groups.

C. It is only supported on controllers that run SSO.

D. It provides seamless client roaming between APs in different Layer 3 networks but within the same mobility group.

Answer: D

Explanation:

Question: 182

An engineer must create an EEM script to enable OSPF debugging in the event the OSPF neighborship goes down. Which script must the engineer apply?

A. event manager applet ENABLE_OSPF_DEBUGevent syslog pattern "%OSPF-1-ADJCHG: Process 5. Nbr 1.1.1.1 on SerialO/0 from FULL to DOWN"action 1.0 cli command "debug ip ospf event"action 2.0 cli command "debug ip ospf adj"action 3.0 syslog priority informational msg "ENABLE_OSPF_DEBUG

B. event manager applet ENABLEOSPFDEBUGevent syslog pattern "%OSPF-5-ADJCHG: Process 5, Nbr 1.1.1.1 on SerialO/0 from LOADING to FULL"action 1.0 cli command "debug ip ospf event"action 2.0 cli command "debug ip ospf adj"action 3.0 syslog priority informational msg "ENABLE JDSPF_DEBUG"

C. event manager apple! ENABLE OSPFDEBUGevent syslog pattern "%OSPF-5-ADJCHG: Process 5. Nbr 1.1.1.1 on SerialO/0 from LOADING to FULL"action 1.0 cli command "enable"action 2.0 cli command "debug ip ospf event"action 3.0 cli command "debug ip ospf adj"action 4.0 syslog priority informational msg "ENABLE_OSPFJ} EBUG"

D. event manager applet ENABLE_OSPF_DEBUGevent syslog pattern "%OSPF-5-ADJCHG: Process 6. Nbr 1.1.1.1 on SerialO/0 from FULL to DOWN"action 1.0 cli command "enable"action 2.0 cli

command "debug ip ospf event"action 3.0 cli command "debug ip ospf adj"action 4.0 syslog priority informational msg "ENABLE_OSPF_DEBUG'*

Answer: D

Explanation:

Question: 183

A wireless administrator must create a new web authentication corporate SSID that will be using ISE as the external RADIUS server. The guest VLAN must be specified after the authentication completes.

Which action must be performed to allow the ISE server to specify the guest VLAN?

A. Set RADIUS Profiling.

B. Set AAA Policy name.

C. Enable Network Access Control State.

D. Enable AAA Override.

Answer: C

Explanation:

Question: 184

What is a benefit of MACsec in a multilayered LAN network design?

A. There is no requirement to run IEEE 802.1X when MACsec is enabled on a switch port.

B. Layer 2 trunk links between switches can be secured.

C. Application flows between hosts on the LAN to remote destinations can be encrypted.

D. Layer 3 links between switches can be secured.

Answer: B

Explanation:

Question: 185

Which character formatting is required for DHCP Option 43 to function with current AP models?

A. ASCII

B. Hex

C. Base64

D. MD5

Answer: B

Explanation:

Question: 186

Which two components are needed when a Cisco SD-Access fabric is designed? (Choose two.)

A. Cisco Catalyst Center (formerly DNA Center) application

B. Firepower Threat Defense

C. Identity Service Engine

D. Cisco Data Center Network Manager

E. Cisco Prime Infrastructure

Answer: A,C

Explanation:

Question: 187

What are two characteristics of Cisco Catalyst SD-WAN? (Choose two.)

A. control plane operates over DTLS/TLS authenticated and secured tunnels

B. time-consuming configuration and maintenance

C. distributed control plane

D. unified data plane and control plane

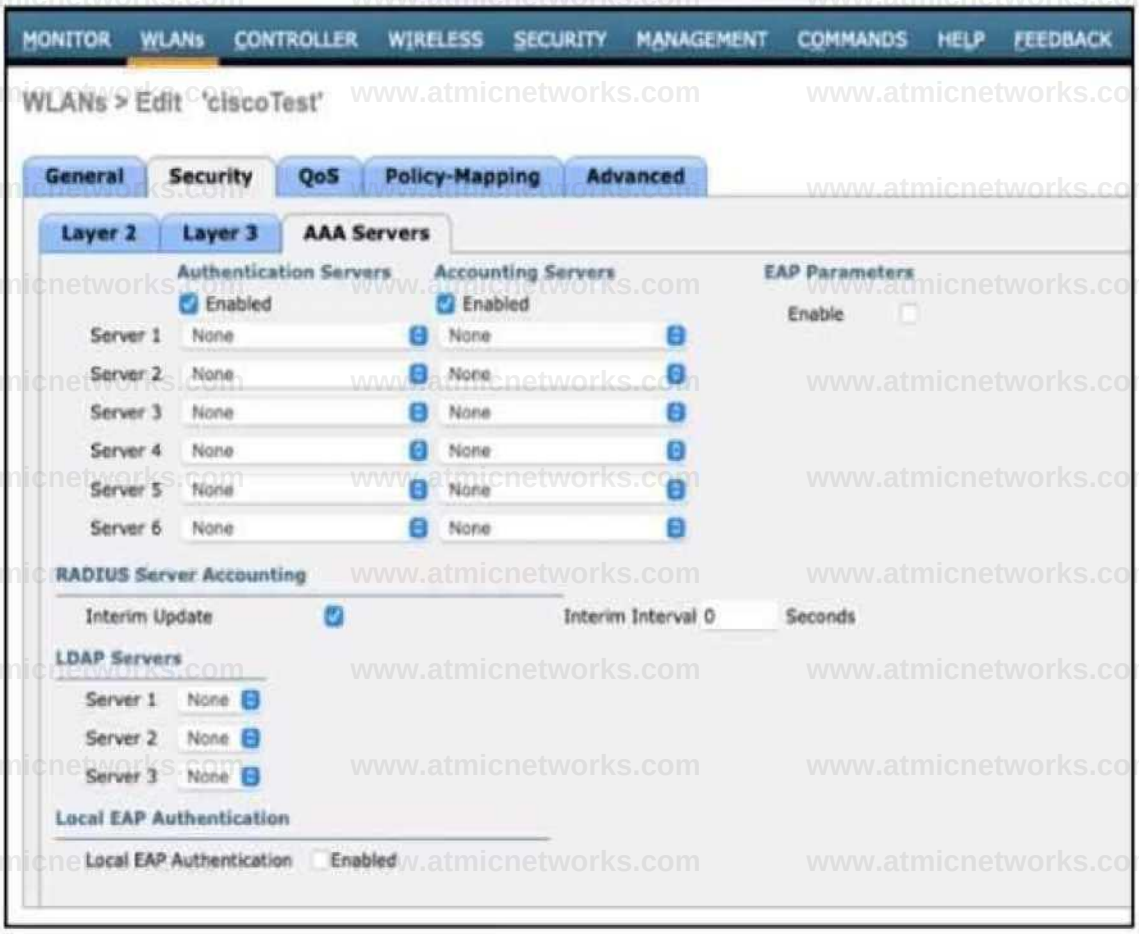
E. centralized reachability, security, and application policies

Answer: A,E

Explanation:

Question: 188

Refer to the exhibit.



Refer to the exhibit. An engineer must configure a Cisco WLC with WPA2 Enterprise mode and avoid global server lists. Which action is required?

A. Enable EAP parameters.

B. Apply CISCO ISE default settings.

C. Disable the RADIUS server accounting interim update.

D. Select a RADIUS authentication server.

Answer: D

Explanation:

Question: 189

Which message type is valid for IGMPv3?

A. leave group

B. hello

C. graft

D. source-specific membership report

Answer: D

Explanation:

Question: 190

Which two characteristics apply to Type 1 hypervisors? (Choose two.)

A. They are widely available to license for free.

B. They provide a platform for running bare metal operating systems.

C. They can be used to create and manage virtual storage

D. They are a software layer that runs on top of a virtual server.

E. They provide a platform for running guest operating systems.

Answer: B,C

Explanation:

Question: 191

Refer to the exhibit.

```
ip sla 10
icmp-echo 192.168.10.20

timeout 500

frequency 3

ip sla schedule 10 life forever start-time now
track 10 ip sla 10 reachability
```

Refer to the exhibit. The IP SLA is configured in a router. An engineer must configure an EEM applet to shut down the interface and bring it back up when there is a problem with the IP SLA. Which configuration should the engineer use?

A. event manager applet EEM_IP_SLAevent track 10 state down

B. event manager applet EEM_IP_SLAevent sla 10 state unreachable

C. event manager applet EEM_IP_SLAevent sla 10 state down

D. event manager applet EEM_IP_SLAevent track 10 state unreachable

Answer: A

Explanation:

Question: 192

What is the structure of a JSON web token?

A. header and payload

B. three parts separated by dots: version, header, and signature

C. payload and signature

D. three parts separated by dots: header, payload. and signature

Answer: D

Explanation:

Question: 193

Which function does a Cisco SD-Access extended node perform?

A. in charge of establishing Layer 3 adjacencies with nonfabric unmanaged node

B. performs tunnelling between fabric and nonfabric devices to route traffic over unknown networks

C. provides fabric extension to nonfabric devices through remote registration and configuration

D. used to extend the fabric connecting to downstream nonfabric enabled Layer 2 switches

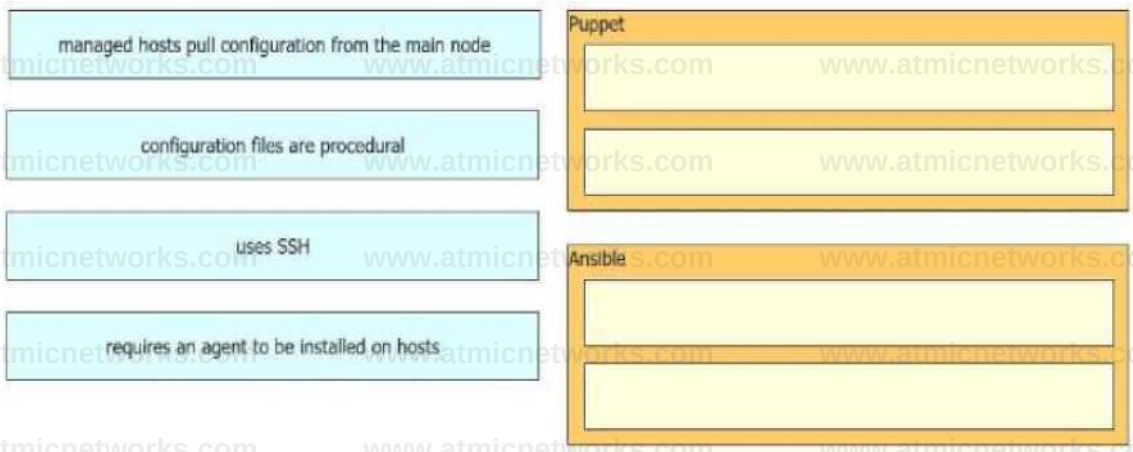
Answer: D

Explanation:

Question: 194

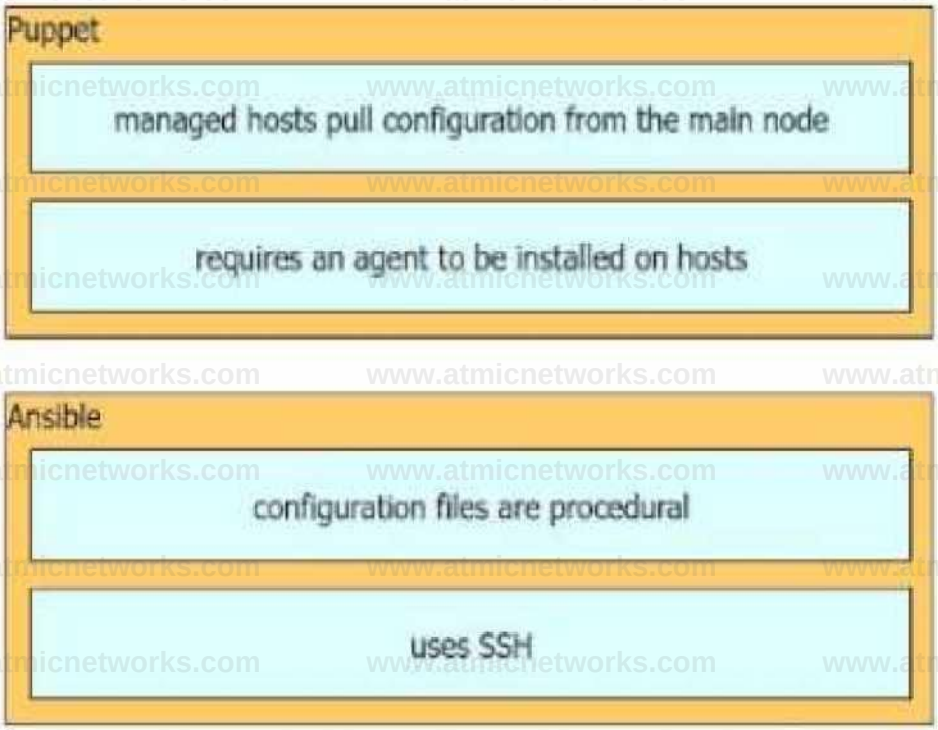
DRAG DROP

Drag and drop the characteristics from the left onto the corresponding orchestration tool on the right.



Answer:

Explanation:



Question: 195

What is a characteristic of the Cisco Catalyst Center (formerly DNA Center) Template Editor feature?

A. It facilitates software upgrades to network devices from a central point.

B. It facilitates a vulnerability assessment of the network devices.

C. It uses a predefined configuration through parameterized elements or variables.

D. It provides a high-level overview of the health of every network device.

Answer: C

Explanation:

Question: 196

What is a TLOC in a Cisco Catalyst SD-WAN deployment?

A. component set by the administrator to differentiate similar nodes that offer a common service

B. value that identifies a specific tunnel within the Cisco Catalyst SD-WAN overlay

C. identifier that represents a specific service offered by nodes within the Cisco Catalyst SD-WAN overlay

D. attribute that acts as a next hop for network prefixes

Answer: C

Explanation:

Question: 197

Which antenna type should be used for a site-to-site wireless connection?

A. omnidirectional

B. patch

C. dipole

D. Yagi

Answer: D

Explanation:

Question: 198

Which configuration enables a Cisco router lo send information to a TACACS+ server for individual EXEC commands associated with privilege level 15?

A. Router(config)# aaa accounting commands 15 default start-stop group tacacs+

B. Router(config)# aaa authorization exec default group tacacs+

C. Router(config)# aaa authorization commands 15 default group tacacs+

D. Router(config)# aaa accounting exec default start-stop group tacacs+

Answer: B

Explanation:

Question: 199

Refer to the exhibit.

```
..st = [1, 2]
list = list * 3
print(list)
```

Refer to the exhibit. What is the value of the variable list after the code is run?

A. [1,2.1.2.1,2]

B. [1,2] * 3

C. [3,6]

D. [1,2]. [1.2]. [1,2]

Answer: A

Explanation:

Question: 200

When deploying Cisco SD-Access Fabric APs, where does the data plane VXLAN tunnel terminate?

A. on the first-hop fabric edge switch

B. on the WLC node

C. on the fabric border node switch

D. directly on the fabric APs

Answer: C

Explanation:

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Question: 201

Which type of roaming event occurs when a client roams across multiple mobility groups?

A. Layer 3

B. Layer 7

C. Layer 1

D. Layer 2

Answer: A

Explanation:

Question: 202

Which action reduces sticky clients in dense RF environments?

A. Decrease radio channel widths to 40 MHz.

B. Increase the mandatory minimum data rates.

C. Decrease the mandatory minimum data rates.

D. Increase radio channel widths to 160 MHz.

Answer: B

Explanation:

Question: 203

Which type of API enables Cisco Catalyst Center (formerly DNA Center) to focus on outcome instead of the individual steps that are required to achieve the outcome?

A. southbound Multivendor Support

B. westbound Integration

C. northbound Intent

D. eastbound Events and Notifications

Answer: C

Explanation:

Question: 204

Which statement describes the Cisco SD-Access plane functionality for fabric-enabled wireless?

A. Control plane traffic and data plane traffic are sent to the WLC through VXLAN.

B. The control plane traffic is sent to the WLC through CAPWAP tunnels, and the data plane traffic is sent from the AP to the fabric edge switch through VXLAN.

C. The control plane traffic is sent to the WLC through VXLAN, and the data plane traffic is sent to the WLC through CAPWAP tunnels.

D. Control plane traffic and data plane traffic are sent to the WLC through CAPWAP tunnels.

Answer: B

Explanation:

Question: 205

A network administrator is preparing a Python script to configure a Cisco IOS XE-based device on the network. The administrator is worried that colleagues will make changes to the device while the script is running. Which operation of the NC client manager prevents colleagues from making changes to the devices while the script is running?

A. m.freeze(config-running')

B. m.freeze(target-running')

C. m.lock(config='running')

D. m.lock(target-running')

Answer: D

Explanation:

Question: 206

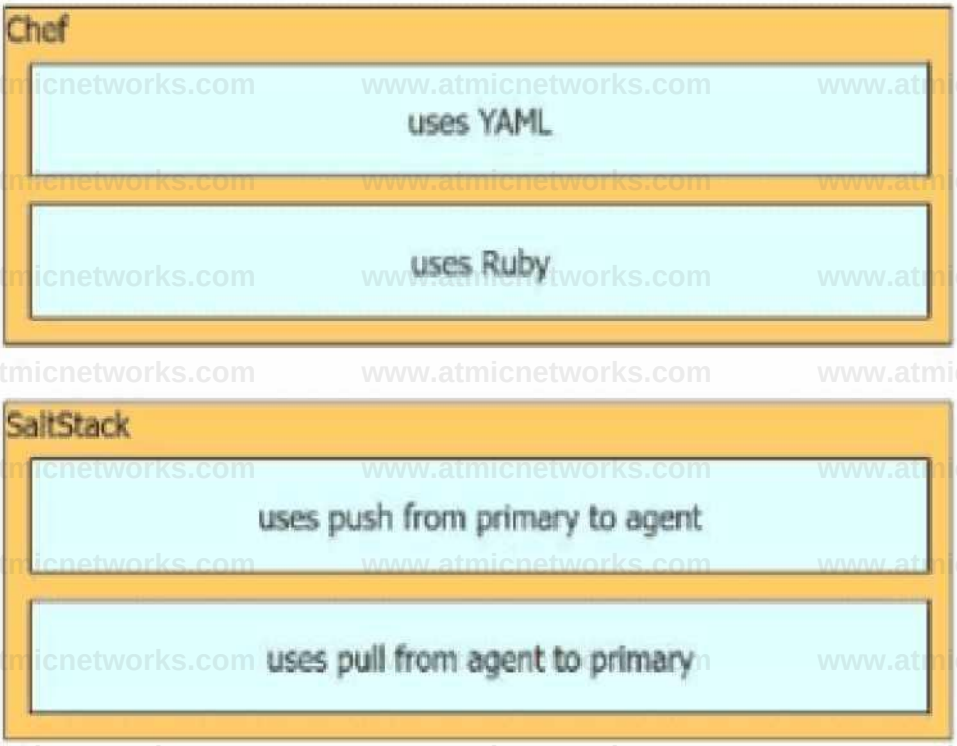
DRAG DROP

Drag and drop the automation characteristics from the left onto the appropriate tools on the right.

Not all options are used.

Answer:

Explanation:



Question: 207

Which action controls the maximum cell size in a high-density wireless environment?

A. Statically set TX power on access points to max.

B. Disable low data rates.

C. Set mandatory data rates.

D. Decrease TX power on access points.

Answer: D

Explanation:

Question: 208

Which two actions are recommended as security best practices to protect REST API? (Choose two.)

A. Use SSL for encryption.

B. Enable out-of-band authentication.

C. Enable dual authentication of the session.

D. Use TACACS+ authentication.

E. Use a password hash.

Answer: A,C

Explanation:

Question: 209

What is a benefit of using segmentation with TrustSec?

A. Integrity checks prevent data from being modified in transit.

B. Security group tags enable network segmentation.

C. Firewall rules are streamlined by using business-level profiles.

D. Packets sent between endpoints on a LAN are encrypted using symmetric key cryptography.

Answer: B

Explanation:

Question: 210

Which two sources cause interference for Wi-Fi networks? (Choose two.)

A. incandescent lights

B. DECT 6.0 cordless phone

C. mirrored wall

D. fish tank

E. 900MHz baby monitor

Answer: C,D

Explanation:

Question: 211

Which action is a LISP Map Resolver responsible for?

A. forwarding user data traffic

B. accepting map-request messages from ITRs

C. finding EID-to-RLOC mappings

D. accepting registration requests from ETRs

Answer: A

Explanation:

Question: 212

An engineer must construct an access list for a Cisco Catalyst 9800 Series WLC that will redirect wireless guest users to a splash page that is hosted on a Cisco ISE server. The Cisco ISE servers are hosted at 10.9.11.141 and 10.1.11.141. Which access list meets the requirements?

A.

```
ip access-list extended ACL_WEBAUTH_REDIRECT
 50deny ip host 10.9.11.141 any
60 deny ip any host 10.9.11.141
70 deny ip host 10.1.11.141 any
80 deny ip any host 10.1.11.141
500 permit tcp any any eq www
600 permit tcp any any eq 443
700 permit tcp any any eq 80
```

B.

```
ip access-list extended ACL_WEBAUTH REDIRECT
70 deny ip any host 10.9.11.141
80 deny ip any host 10.1.11.141
500 permit tcp any any eq www
600 permit tcp any any eq 443
700 permit tcp any any eq 844 3
800 deny udp any any eq domain
```

C.

```
ip access-list extended ACL_WEBAUTH_REDIRECT
  70 permit ip any host 10.9.11.141
  80 permit ip any host 10.1.11.141
  500 deny tcp any any eq www
  600 deny tcp any any eq 443
  700 deny tcp any any eq 844 3
  800 deny udp any any eq domain
  901 deny ip any any
```

D.

```
ip access-list extended ACL_WEBAUTH_REDIRECT
  70 permit Ip any host 10.9.11.141
  80 permit Ip any host 10.1.11.141
  500 permit tcp any any eq www
  600 permit tcp any any eq 443
  700 permit tcp any any eq 8443
  800 deny udp any any eq domain
```

A. Option A

B. Option B

C. Option C

D. Option D

Explanation:

Answer: C

Question: 213

Why are stateless calls executed by REST API useful in cloud applications?

A. They use HTTPS to implement all calls.

B. They control URL decoding.

C. They are easy to redeploy and to scale.

D. They rely on data stored on the server for calls.

Explanation:

Answer: C

Question: 214

What are two benefits of using Cisco TrustSec? (Choose two.)

A. unknown file analysis using sandboxing

B. advanced endpoint protection against malware

C. end-to-end traffic encryption

D. simplified management of network access

E. consistent network segmentation

Explanation:

Answer: D,E

Question: 215

Refer to the exhibit.

vlan.lut - *”*"\

```
vlaniO => 192.168.10.1 vlan20 -> 192.168.20.1 vlan30 =>
192.168.30.1 « w n
def print_vlan(vlans): print ivlans)

def vlan():
    vlan.llat.dict ” ()

    for line in vlan.list.split("\n"): if not line.stripO:
    continue
        k, v = [word.atrip() for word in line.split("»>•)]
        vlan_119t_dict[k] - v
    return vian_li9t_dict

def main(I: vines — vlan() print.vlan(vlans)

if name =* main *: Min()
```

Refer to the exhibit A network engineer must use a Python script lo convert data received from a network device. Which type of data is printed to the console when the script runs?

A. dictionary with a key-value pair

B. list of lists

C. list of strings

D. tuple list

Answer: A

Explanation:

Question: 216

Refer to the exhibit. A network engineer must configure NETCONF. After creating the configuration, the engineer gets output from the command show line, but not from show running-config. Which command completes the configuration?

A. Device(config)# netconf lock-time 500

B. Device(config)# netconf max-message 1000

C. Device(config)# no netconf ssh acl 1

D. Device(config)# netconf max-sessions 100

Answer: B

Explanation:

Question: 217

What is used to validate the authenticity of the client and is sent in HTTP requests as a JSON object?

A. SSH

B. TLS

C. HTTPS

D. JWT

Answer: D

Explanation:

Question: 218

What is one method for achieving REST API security?

A. using a MD5 hash to verify the integrity

B. using built-in protocols known as Web Services Security

C. using HTTPS and TLS encryption

D. using a combination of XML encryption and XML signatures

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Answer: C

Explanation:

Question: 219

Refer to the exhibit.

```
import json

Devices={'Switches':
  [
   {'name': 'AccSw1', 'ip': '2001:db8:1:fffe::1'},
   {'name': 'AccSw2', 'ip': '2001:db8:1:fffe::2'}
  ],
  'Routers':
    {'CE1': {'ip': '2001:db8:1:ffff::1'},
     'CE2': {'ip': '2001:db8:1:ffff::2'}
    }
}
```

Refer to the exhibit. Which Python snippet stores the data structure of the device in JSON format?

A. A close up of a text AI-generated content may be incorrect.

B. A close up of a logo AI-generated content may be incorrect.

C. A close up of a text AI-generated content may be incorrect.

D. A black text on a white background AI-generated content may be incorrect.

Answer: C

Explanation:

Question: 220

What is provided by the Stealthwatch component of the Cisco Cyber Threat Defense solution?

A. real-time threat management to stop DDoS attacks to the core and access networks

B. malware control

C. real-time awareness of users, devices, and traffic on the network

D. dynamic threat control for web traffic

Answer: C

Explanation:

Question: 221

When should the MAC authentication bypass feature be used on a switch port?

A. when authentication is required, but the attached host does not support 802.1X

B. when the attached host supports 802.1X and must authenticate itself based on its MAC address instead of user credentials

C. when authentication should be bypassed for select hosts based on their MAC address

D. when the attached host supports limited 802.1X

Answer: A

Explanation:

Question: 222

Where is radio resource management performed in a Cisco SD-Access wireless solution?

A. DNA Center

B. wireless controller

C. Cisco CMX

D. control plane node

Answer: B

Explanation:

Question: 223

Which consideration must be made when using BFD in a network design?

A. BFD requires a FHRP in order to provide sub second host failover.

B. BFD can be deployed without any IP routing protocols being configured.

C. NSF and graceful restart must be enabled on all participating routers.

D. Cisco Express forwarding and IP routing must be enabled on all participating routers.

Answer: D

Explanation:

Question: 224

Which three methods does Cisco Catalyst Center (formerly DNA Center) use to discover devices? (Choose three.)

A. SNMP

B. a specified range of IP addresses

C. NETCONF

D. LLDP

E. ping

F. CDP

Answer: B,D,F

Explanation:

Question: 225

A customer requests a design that includes GLBP as the FHRP. The network architect discovers that the members of the GLBP group have different throughput capabilities. Which GLBP load balancing method supports this environment?

A. host dependent

B. weighted

C. least connection

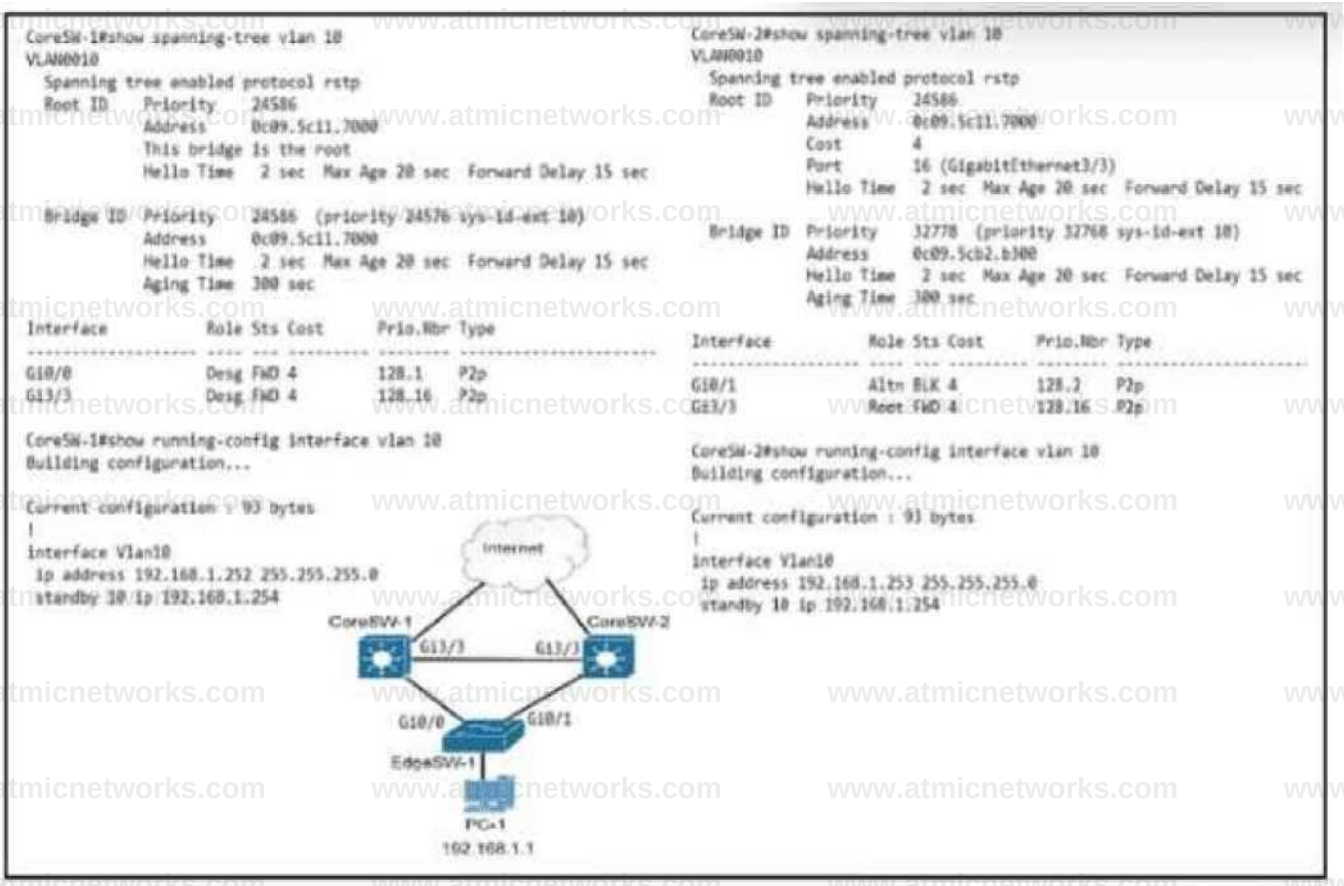
D. round robin

Answer: B

Explanation:

Question: 226

Refer to the exhibit.



Refer to the exhibit. Which configuration causes the traffic from PC-1 to the internet to use the link between CoreSW-1 and CoreSW-2 when both switches are up?

CoreSW-2(config i# interface vlan 10
CoreSW-2(config-if)# standby 10 priority 110

CoreSW-11config i[1]? interface vlan 10
CoreSW-1 (config-ifp standby 10 priority 90

CoreSW-1 |config i* interface vlan 10
CoreSW-1 (config-if)# standby 10 priority 110

CoreSW-2|config |Jf interface vlan 10
CoreSW-2(config-ify» standby 10 priority 100

A. Option

B. Option

C. Option

D. Option

Answer: B

Explanation:

Question: 227

A customer has several small branches and wants to deploy a Wi-Fi solution with local management using CAPWAP. Which deployment model meets this requirement?

A. local mode

B. SD-Access wireless

C. autonomous

D. Mobility Express

Answer: D

Explanation:

Question: 228

What is the name of the numerical relationship of the wireless signal compared to the noise floor?

A. SNR

B. RSSI

C. EIRP

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D. gain

Answer: A

Explanation:

Question: 229

What are two device roles in the Cisco SD-Access fabric? (Choose two.)

A. access switch

B. vBond controller

C. edge node

D. core switch

E. border node

Answer: C,E

Explanation:

Question: 230

What is one advantage of using a data modeling language to develop an API client application?

A. Increase in compatibility

B. easier feature extensibility

C. stronger security properties

D. lower resource requirements

Answer: B

Explanation:

Question: 231

Which DNS record type is needed to allow a Cisco AP to discover a WLC when using IPv4?

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A. CNAME record

B. A record

C. NS record

D. SOA record

Answer: A

Explanation:

Question: 232

Which device is responsible for finding EID-to-RLOC mappings when traffic is sent to a LISP-capable site?

A. ingress tunnel router

B. map resolver

C. egress tunnel router

D. map server

Answer: C

Explanation:

Question: 233

What is one characteristic of Cisco Catalyst Center (formerly DNA Center) and vManage northbound APIs?

A. They implement the NETCONF protocol.

B. They push configuration changes down to devices.

C. They exchange XML-formatted content.

D. They implement the RESTCONF protocol.

Answer: C

Explanation:

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Question: 234

Which measurement is used from a post wireless survey to depict the cell edge of the access points?

A. RSSI

B. SNR

C. Noise

D. CCI

Answer: B

Explanation:

Question: 235

Refer to the exhibit.

```
Status Code: 202
Body:
    {
    "response": {
        "taskId": "96d14933-79ca-2c76-453d-ac09d2cb2a4",
        "url": "dna/intent/api/v1/task/96d14933-79ca-2c76-453d-ac09d2cab2a4"
    },
    "version": "1.0"
    }
```

Refer to the exhibit. Which HTTP request produced the REST API response that was returned by the Cisco Catalyst Center (formerly DNA Center) platform?

A. POST /auth/token

B. GET /network-device

C. GET /template-programmer/template/version/42a3df73-3ef4-49e2-b4f0-6927bbd4bf52

D. POST /discovery

Answer: B

Explanation:

Question: 236

In a Cisco Mobility Express wireless deployment, which AP takes over if the primary AP fails?

A. AP with highest IP address

B. AP with the lowest IP address

C. AP with highest MAC address

D. AP with highest controller up time

Answer: C

Explanation:

Question: 237

Refer to the exhibit.

Script

```
import ncclient
with nccl lent .manager. connect (host*[1]192.168.1.1', port-830, use mane*'root', password-'test 123!
    allow agent-False) as m: print(n.get config('running').data xml)
```

```
$ python getconfig py
Traceback (most recent call last):
  File "got config.py", line 3, in <module>
    wit "nt.manager.connect(host-'192.168.1.1', port-630, username-'root', AttributeError: 'module' object has
no attribute 'manager'
```

Refer to the exhibit. Running the script causes the output in the exhibit. What should be the first line of the script?

A. import manager

B. ncclient manager import

C. from ncclient import *

D. from ncclient import manager

Answer: D

Explanation:

Question: 238

Refer to the exhibit.

```
ip access-list extended 101
 10 deny   ip any any
!
event manager applet Block_Users
 action 1.0 cli command "enable"
 action 2.0 cli command "configure terminal"
 action 3.0 cli command "interface GigabitEthernet1"
 action 4.0 cli command "ip access-group 101 in"
 action 5.0 cli command "ip access-group 101 out"
```

Refer to the exhibit. An engineer builds an EEM script to apply an access list. Which statement must be added to complete the script?

A. event none

B. action 6.0 cli command "ip access-list extended 101"

C. action 2.1 cli command "ip access-list extended 101"

D. action 3.1 cli command "ip access-list extended 101"

Answer: A

Explanation:

Question: 239

In a virtual environment, what is a VMDK file?

A. A file containing information about snapshots of a virtual machine.

B. A zip file connecting a virtual machine configuration file and a virtual disk.

C. A configuration file containing settings for a virtual machine such as a guest OS.

D. A file containing a virtual machine disk drive.

Answer: A

Explanation:

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Question: 240

Which function is performed by vSmart in the Cisco Catalyst SD-WAN architecture?

A. facilitation of NAT detection and traversal

B. redistribution between OMP and other routing protocols

C. distribution of IPsec keys

D. execution of localized policies

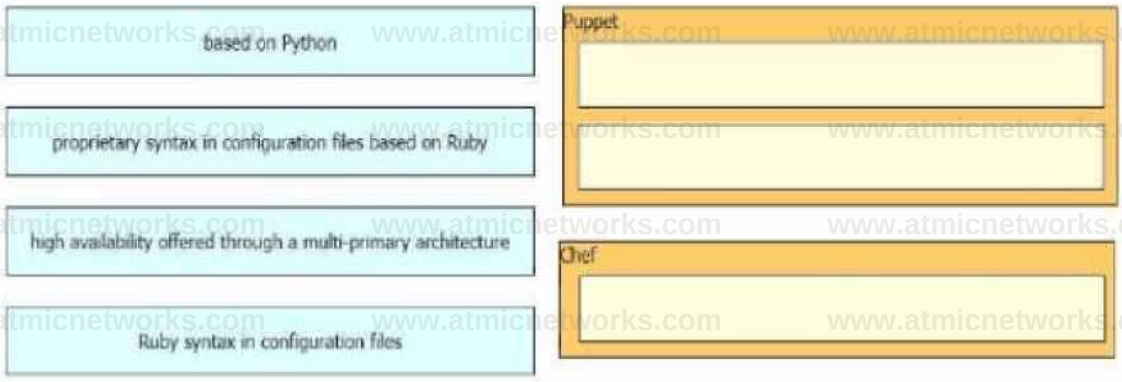
Answer: B

Explanation:

Question: 241

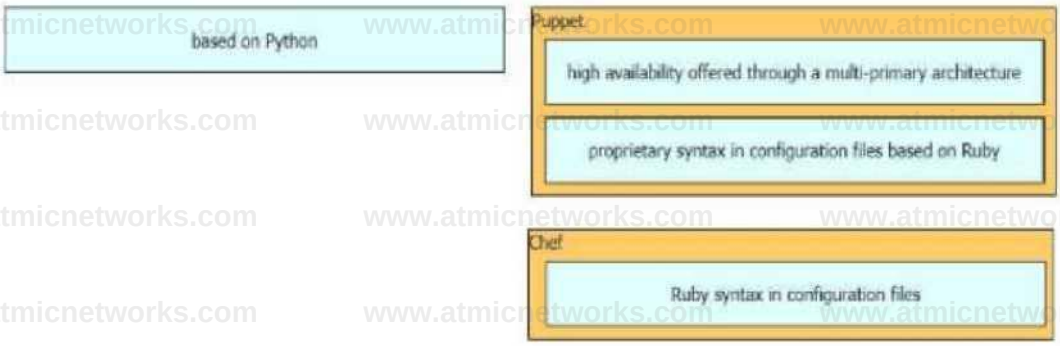
DRAG DROP

Drag and drop the automation characteristics from the left onto the corresponding tools on the right.
Not all options are used.



Answer:

Explanation:



A screenshot of a computer AI-generated content may be incorrect.

Question: 242

Which JSON syntax is valid?

A)

switch • name ■ distr interfaces * Tomi

B)

{'switch': ('name': 'dist1', 'interfaces': ['gig1', 'gig2', 'gig3'])}

C)

{"switch": {"name": "dist1", "interfaces": ["gig1", "gig2", "gig3"]}}

D)

{/"switch/": {/"name/": "dist1", /"interfaces/": ["gig1", "gig2", "gig3"]}}

A. Option A

B. Option B

C. Option C

D. Option D

Answer: A

Explanation:

Question: 243

What is a client who is using 802.1x for authentication referred to as?

A. authenticator

B. policy enforcement point

C. NAC device

D. supplicant

Answer: D

Explanation:

Question: 244

Which solution supports end-to-end line-rate encryption between two sites?

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A. TrustSec

B. MACsec

C. IPsec

D. GRE

Answer: C

Explanation:

Question: 245

Which architectural component enables a zero-trust security model?

A. management plane

B. plug-and-play

C. data plane

D. control plane

Answer: D

Explanation:

Question: 246

A customer has two Cisco WLCs that manage separate APs throughout a building. Each WLC advertises the same SSID but terminates on different interfaces. Users report that they drop their connections and change IP addresses when roaming. Which action resolves this issue?

A. Enable client load balancing

B. Enable fast roaming.

C. Configure high availability.

D. Configure mobility groups.

Explanation:

Answer: C

Question: 247

Refer to the exhibit.

Reler to the exhibit. An engineer configuring WebAuth on a Cisco Catalyst 9000 Series WIC. The engineer has purchased a third-party certificate using the FQDN of the WLC as the CN and intends to use bit on the WebAuth splash page What must be configured so that the clients do not receive a certificate error?

A. Virtual IPv4 Address must be set to a routable address.

B. Virtual IPv4 Hostname must match the CN of the certificate.

C. Trustpoint must be set to the management certificate of the WLC.

D. Web Auth Intercept HTTPs must be enabled.

Answer: B

Explanation:

Question: 248

Which two new security capabilities are introduced by using a next-generation firewall at the Internet edge? (Choose two.)

A. integrated intrusion prevention

B. VPN

C. application-level inspection

D. stateful packet inspection

E. NAT

Answer: A,C

Explanation:

Question: 249

Which network design principle should be followed to improve Layer 2 stability in an enterprise campus design?

A. Extend all user VLANs throughout the access layer

B. Extend only required user VLANs throughout the access layer

C. Extend all user VLANs throughout the core layer

D. Extend only required user VLANs throughout the aggregation layer

Answer: B

Explanation:

Question: 250

DRAG DROP

Drag and drop the solutions that comprise Cisco Cyber Threat Defense from the left onto the objectives they accomplish on the right.

Answer:

Explanation:

Question: 251

Which two Cisco SD-Access components provide communication between traditional network elements and the controller layer? (Choose two.)

A. network underlay

B. network control platform

C. network data platform

D. partner ecosystem

E. fabric overlay

Answer: A,E

Explanation:

Question: 252

Refer to the exhibit.

```
import requests
import json

ufl-https ' swrtchIP loo com ms
swilchuset^username
swHchpesswotd-passwordIZT

myhcaders: reorient type' apphcetrorvjscmrpcl
payloed=]
    (
      'jsonrpc* KT.
      'method* *ck*
      'patents* {
        'cmd* "show clock*
        ■version* I
      V 1

response «requests postfix! dala=json dumpsfpaytoad) headers=myheaders aulh-iswrtchusw switchpassword) verify - Fai se < ponf)
```

Refer to the exhibit. Based on this JSON response:

```
"jsonrpc": "2.0",
"result": {
"body": {
"simple_time": "10:42:36.111 UTC Mon Jan 1 2024"
```

Which Python statement parses the response and prints "10:42:36.111 UTC Mon Jan 1 2024"

O print(response[,jsonrpc,][’body’][’simple_time,])

O print(response['result'][0]['simple_time'])

O pnnt(response['result']['body’]['simple_time'])

0 print(response['body']['simple_time']) ^A

A. printfresponset[jsonrpc'][‘body’]['simple_time'])

B. print(response[result'][0][,simple_time,])

C. printfresponsefresult'Jfbody'JfsimpleJime'])

D. printfresponsel'body'jrsimplejime'])

Answer: C

Explanation:

Question: 253

Which unit measures the power of a radio signal with reference to 1 milliwatt?

A. dBi

B. mW

C. dBw

D. dBm

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Answer: D

Explanation:

Question: 254

Refer to the exhibit.

```
»> URL="https://dna-center/api/vl/network-device/ip-address/10.0.0.100"
»> Response = requests.get(URL, headers=Headers, verify=False)
»> Response. status_code

»> Response . j son () [' response[1] ] [' id' ]
•93f6be77-abc6-1020-Bfab-d5c0110bfd81' »>
>» URL="https://dna-center/api/vl/network-device/ip-address/10.0.0.200”
»> Response = requests.get(URL, headers=Headers, verify=False)
»> Response. status_code 404
»> Response. json () [ ’ response' ] [' id' ]
Traceback (most recent call last):
   File ”<stdin>", line 1, in <module>
KeyError: ‘id’
```

Refer to the exhibit. What is determined from the output?

A. 10.0.0.100 is managed by Cisco Catalyst Center (formerly DNA Center).

B. The URL for the second query is syntactically incorrect.

C. The authentication for the second query fails.

D. 10.0.0.200 is known to DNA Center, but its ID is an empty string.

Answer: A

Explanation:

Question: 255

What is a benefit of data modeling languages like YANG?

A. They enable programmers to change or write their own application within the device operating system.

B. They create more secure and efficient SNMP OIDs.

C. They make the CLI simpler and more efficient.

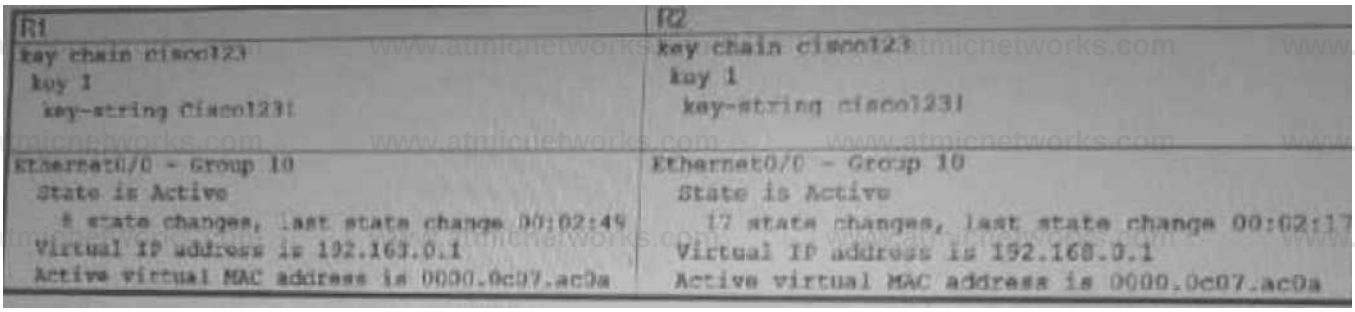
D. They provide a standardized data structure, which results in configuration scalability and consistency.

Answer: D

Explanation:

Question: 256

Refer to the exhibit.



```
R1
key chain cisco123
 key 1
  key-string Cisco123!
Ethernet0/0 - Group 10
  State is Active
    8 state changes, last state change 00:02:49
  Virtual IP address is 192.163.0.1
  Active virtual MAC address is 0000.0c07.ac0a
```

```
R2
key chain cisco123
 key 1
  key-string cisco123!
Ethernet0/0 - Group 10
  State is Active
    17 state changes, last state change 00:02:17
  Virtual IP address is 192.168.0.1
  Active virtual MAC address is 0000.0c07.ac0a
```

An engineer is installing a new pair of routers in a redundant configuration. Which protocol ensures that traffic is not disrupted in the event of a hardware failure?

A. HSRPv1

B. GLBP

C. VRRP

D. HSRPv2

Answer: A

Explanation:

Question: 257

An engineer is configuring a new SSID to present users with a splash page for authentication. Which WLAN Layer 3 setting must be configured to provide this functionally?

A. CCKM

B. WPA2 policy

C. Local Policy

D. Web Policy

Answer: D

Explanation:

Question: 258

Which feature allows clients to perform Layer 2 roaming between wireless controllers?

A. SSO

B. N+1 high availably

C. mobility groups

D. RF grouping

Answer: C

Explanation:

Question: 259

Which technique is used to protect end user devices and data from unknown file behavior?

A. crypto file ransomware protection using a file hash calculation

B. file retrospection using continuous scan and analyses

C. phishing file quarantine using an internal environment to store attached files

D. file sandboxing using a protected environment to analyze and simulate the behavior of unknown files

Answer: D

Explanation:

Question: 260

Which feature works with SSO to continue forwarding packets after a route processor failure until the control plane recovers?

A. ECMP

B. HSRP

C. RSVP

D. NSF

Answer: D

Explanation:

Question: 261

Refer to the exhibit.

```
psswd = (base64.b64decode('SzFwM001RzchCg==').decode('utf-8')).strip('\n')
d = datetime.date.today()
date = str(10000*d.year + 100*d.month + d.day)
```

Refer to the exhibit. Which result does the python code achieve?

A. The code encrypts a base64 decrypted password.

B. The code converts time to the "year/month/day" time format.

C. The code converts time to the yyyymmdd representation.

D. The code converts time to the Epoch LINUX time format.

Answer: C

Explanation:

Question: 262

Which API does Cisco DNA Center use to retrieve information about images?

A. SWIM

B. Img-Mgmt

C. PnP

D. Client Health

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Answer: A

Explanation:

Question: 263

DRAG DROP

Drag and drop the snippets onto the blanks within the code to construct a script that brings up the failover Ethernet port if the primary port goes down and also shuts down the failover port when the primary returns to service. Not all options are used.

```
•vent aanagor applet WV-l-Up
  •vent cyclop pattern 'Lino protocol on Interface GxqabitXthernot4/0/2. changed state to
  action 1.0 cli coaaand 'enable*
  action 2.0 cli coaaand 'configure torainal*
  action 2.0 cli eooaand 'Interface Glgabk tX theme 13/0/10*
  action 4.0 cli coaaand "no shutdown*
action SO cli coaaand "end*
•vent Manager applet WV-l-Down
  event ayslog pattern 'Line protocol on Interface |1 ■ changed state to up"
  action 1.0        ftli coaaand   'enable*
  action 2.0        cli coaaand   "configure        torainal*
  action 2.0        cli coaaand   ■_intar_faro_<swiahitxthernet3/0/10*
  action 4.0        cli coaaand''
Action 50 cli coaaand '•nd*
```

Shutdown | UP | GaOMEthtmeU/0/10

NpfhjUown | D»m | GOibCthemetW?

Answer:

Explanation:

```
event manager applet SRV-1-Up
 event syslog pattern "Line protocol on Interface GigabitEthernet4/0/9, changed state to [Down]"
 action 1.0 cli command "enable"
 action 2.0 cli command "configure terminal"
 action 3.0 cli command "Interface GigabitEthernet3/0/10"
 action 4.0 cli command "no shutdown"
action 5.0 cli command "end"
event manager applet SRV-1-Down
 event syslog pattern "Line protocol on Interface [GigabitEthernet4/0/9], changed state to up"
 action 1.0 cli command "enable"
 action 2.0 cli command "configure terminal"
 action 3.0 cli command "Interface GigabitEthernet3/0/10"
 action 4.0 cli command "[Shutdown]"
action 5.0 cli command "end"
```

Up | GigabitEthernet3/0/10

No shutdown

Question: 264

Which feature provides data-plane security for Cisco Catalyst SD-WAN networks'

A. IPsec

B. SSH

C. IPS

D. TLS/DTLS

Answer: A

Explanation:

Question: 265

What is the VXLAN network identifier used to identify?

A. network tunnel interface

B. IP subnet

C. virtual tunnel endpoint

D. broadcast domain

Answer: D

Explanation:

Question: 266

What is a characteristic of a virtual machine?

A. It shares the host OS kernel, binaries, and libraries

B. It is more resource efficient than a container

C. It provides an environment completely isolated from the host OS

D. It is more lightweight than a container

Answer: C

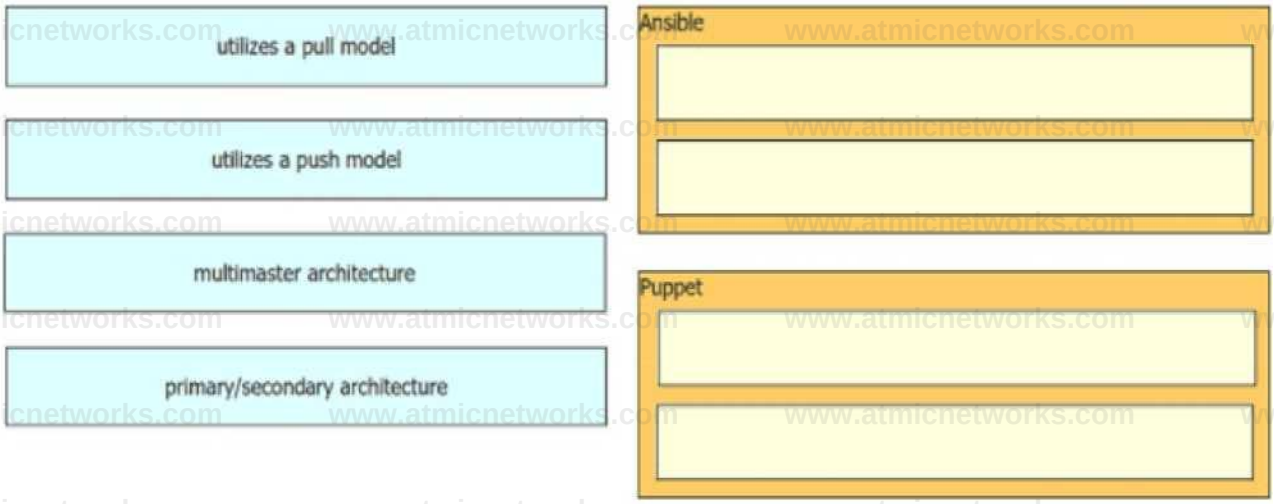
Explanation:

Question: 267

DRAG DROP

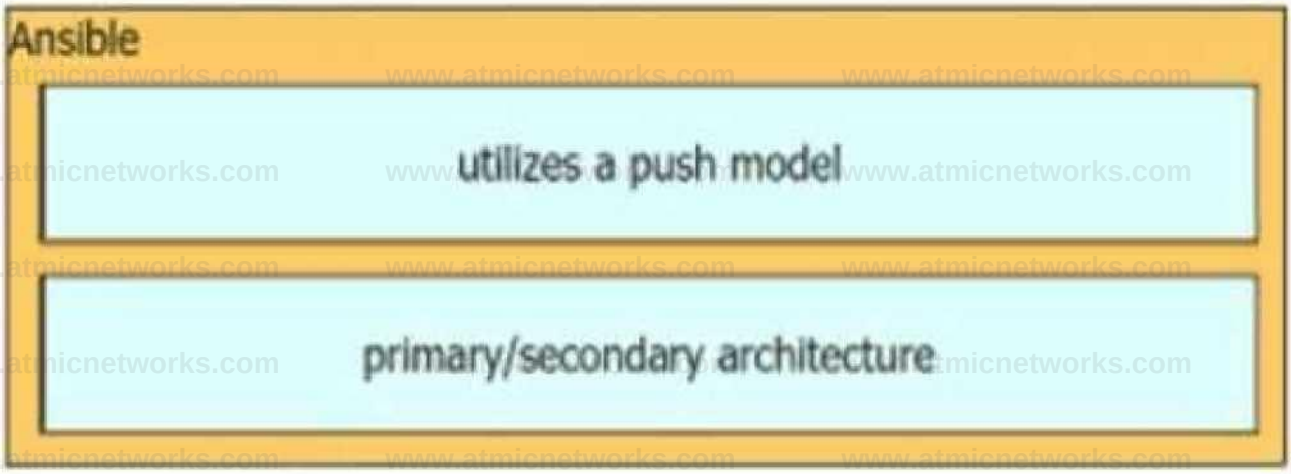
Drag and drop the characteristics from the left onto the orchestration tools they describe on the

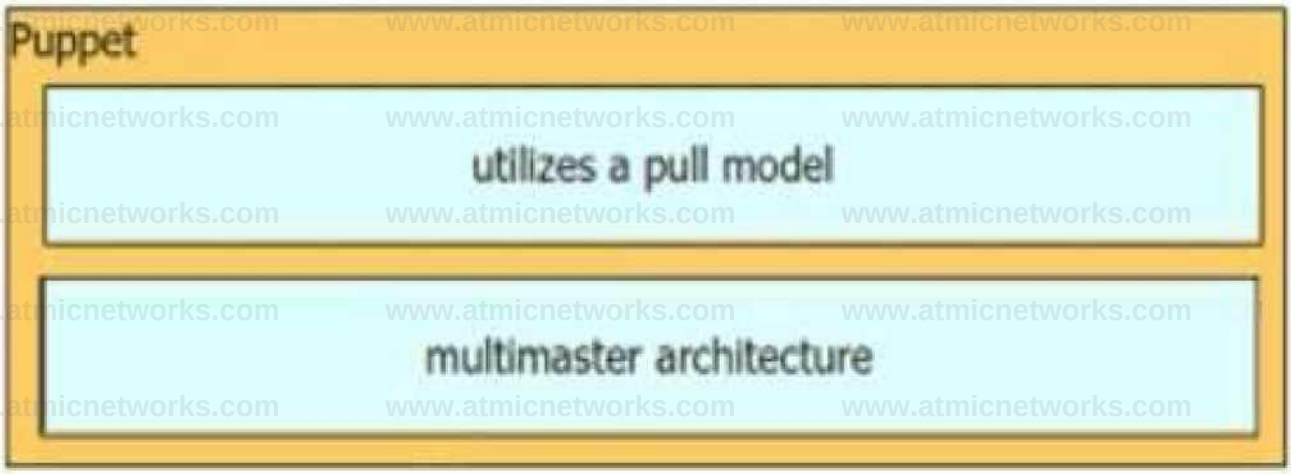
right.



Answer:

Explanation:





Question: 268

What is a characteristic of MACsec?

A. 8021AE provides encryption and authentication services

B. 8021AE is butt between the host and switch using the MKA protocol which negotiates encryption keys based on the master session key from a successful 802IX session

C. 802.1AE is built between the host and switch using the MKA protocol using keys generated via the Diffie-Hellman algorithm (anonymous encryption mode)

D. 8021AE is negotiated using Cisco AnyConnect NAM and the SAP protocol

Answer: B

Explanation:

Question: 269

What is the purpose of a data modeling language?

A. to establish a framework to process data by using an object-oriented programming approach

B. to specify the rules for transcoding between text and binary data encodings

C. to standardize the procedures that are executed when parsing sent and received data

D. to describe the structure and meaning of exchanged data

Answer: D

Explanation:

Question: 270

Which language defines the structure or modeling of data for NETCONF and RESTCONF?

A. YAML

B. YANG

C. JSON

D. XML

Answer: B

Explanation:

Question: 271

A script contains the statement •white loop != 999 ' Which value terminates the loop?

A. A value equal to 999.

B. A value not equal to 999.

C. A value greater than or equal to 999.

D. A value less than or equal to 999.

Answer: A

Explanation:

Question: 272

An engineer is reviewing a PCAP file that contains a packet capture of a four-way handshake exchange between a dient and AP using WPA2 Enterprise Which EAPOL message validates and confirms that the client device has successfully Installed the GTK?

A. M4-Message

B. M3-Message

C. M2-Message

D. M1-Message

Answer: A

Explanation:

Question: 273

What is a client who is running 802.1x for authentication reffered to as?

A. supplicant

B. NAC device

C. authenticate

D. policy enforcement point

Answer: A

Explanation:

Question: 274

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Which three methods does Cisco DNA Centre use to discover devices? (Choose three)

A. CDP

B. SNMP

C. LLDP

D. ping

E. NETCONF

F. a specified range of IP addresses

Answer: A,C,F

Explanation:

Question: 275

What is a characteristic of a traditional WAN?

A. low complexity and high overall solution scale

B. centralized reachability. security, and application policies

C. operates over DTLS and TLS authenticated and secured tunnels

D. unified data plane and control plane

Answer: D

Explanation:

Question: 276

Which tag defines the properties to be applied to each specific WLAN?

A. RF tag

B. policy tag

C. AP tag

D. site tag

Answer: B

Explanation:

Question: 277

Refer to the exhibit. Which Python snippet stores the data structure of the device in JSON format?

A)

```
OutFile ■ openf divices.json", "w")
 json.dumpfDevices, OutFile)
 OutFile.closef)
```

B)

```
OutFile = open(’'devices.json", "w")
 OutFile. write(str( Devices))
 OutFile.close()
```

C)

```
with open( "devices json", "w”) as OutFile:
   json.dumps(Devices)
```

D)

```
with open("devices.json', ’W) as OutFile
   Devices ■ ison.load(OutFile)
```

A. Option A

B. Option B

C. Option C

D. Option D

Answer: A

Explanation:

Question: 278

What are two device roles in Cisco SD-Access fabric? (Choose two.)

A. core switch

B. vBond controller

C. edge node

D. access switch

E. border node

Answer: C, E

Explanation:

Question: 279

What is one characteristic of Cisco DNA Center and vManage northbound APIs?

A. They push configuration changes down to devices.

B. They implement the RESTCONF protocol.

C. They exchange XML-formatted content.

D. They implement the NETCONF protocol.

Answer: B

Explanation:

Question: 280

Which solution supports end to end line-rate encryption between two sites?

A. IPsec

B. TrustSec

C. MACSec

D. GRE

Answer: A

Explanation:

Question: 281

What is a TLOC in a Cisco SD-WAN deployment?

A. value that identifies a specific tunnel within the Cisco SD-WAN overlay

B. identifier that represents a specific service offered by nodes within the Cisco SD-WAN overlay

C. attribute that acts as a next hop for network prefixes

D. component set by the administrator to differentiate similar nodes that offer a common service

Answer: B

Explanation:

Question: 282

What is the base unit of definition in YANG?

A. module

B. include statement

C. stanza

D. node

Answer: D

Explanation:

Question: 283

DRAG DROP

Drag and drop the command snippets from the right onto the boxes to create an EEM applet that will enable interface LoopbackO when the logging message 'Interface LoopbackO. changed state to administratively down" is received. Not all commands are used and some commands are used more than once.

eunt	Enab1•_—-cp bao k0
	"Interface Loopback?, changed state to administratively down"
action 1.0	"enacle"
action 2.0	"cor. figure ceramal'
action 3.0	^"interface loopback. 0"
action 4.0	"no shutdown'* I* and"
action 5.0	

manager run

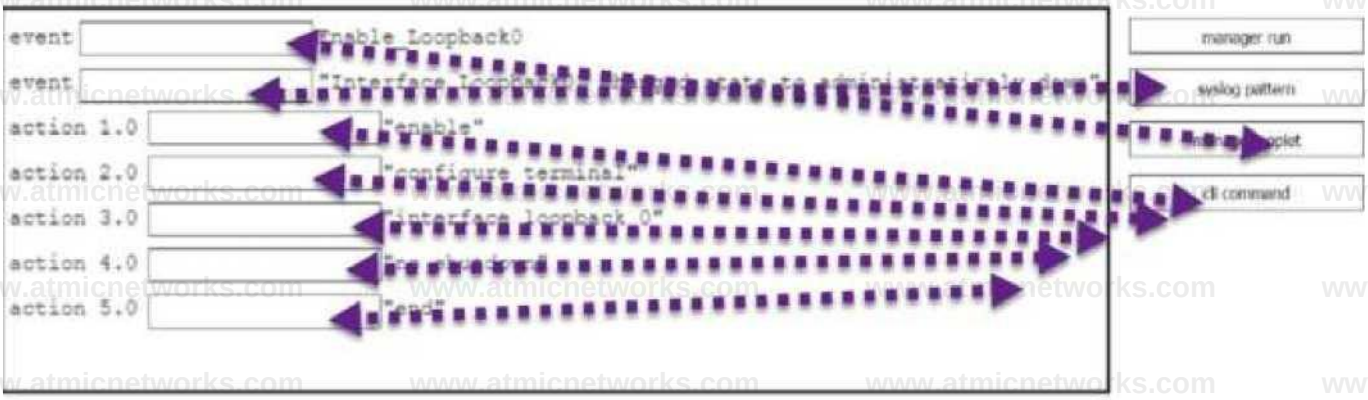
syslog pattern

manager applet

cli command

Answer:

Explanation:



Question: 284

Refer to the exhibit.

```
Edge-3#show lldp neighbors
Capability codes:
    (R) Router, (B) Bridge, (T) Telephone, (C) DOCSIS Cable Device
    (W) WLAN Access Point, (P) Repeater, (S) Station, (O) Other

Device ID           Local Intf     Hold-time  Capability      Port ID
Core-SW.cisco.lab   Gi0/3          120        R               Gi0/3
Edge-2.cisco.lab    Gi0/2          120                        Gi0/2
Edge-1.cisco.lab    Gi0/1          120                        Gi0/1

Total entries displayed: 3
==========================================================================
==========================================================================
u2= []
client = paramiko.SSHClient()
client.load_system_host_keys()
client.set_missing_host_key_policy(paramiko.AutoAddPolicy())
client.connect(192.168.1.1, port=22, username='cisco', password='cisco', allow_agent=False)
stdin, stdout, stderr = client.exec_command('show lld neighbors\n')
u = 0
for u in stdout:
    if 'Router' not in u and 'Capability' not in u and 'Repeater' not in u:
        if 'Device ID' not in u and 'displayed' not in u:
            u101 = u.split()
            if len(u101) != 0:
                u2.append(u101)
```

Refer to the exhibit. What does this code achieve?!

A. It generates a list containing only the hostname of the LLDP neighbor.

B. It generates a list of the LLDP neighbors and their capabilities

C. It generates a list of routers with the Repeater capability.

D. It generates a count of the LLDP neighbors.

Answer: A

Explanation:

Question: 285

What is the measure of the difference between the received signal and the noise floor in a wireless environment?

A. XOR

B. RSSI

C. RRM

D. SNR

Answer: D

Explanation:

Question: 286

What is the role of a LISP map server?

A. It receives information from ETRs that map EIDs to RLOCs

B. It transmits requests for EID-to-RLOC resolution

C. It transmits information from ETRs that map EIDs to RLOCs

D. It responds to requests for EID-to-RLOC resolution.

Answer: A

Explanation:

Question: 287

Which First Hop Redundancy Protocol maximizes uplink utilization and minimizes the amount of configuration that is necessary?

A. GLBP

B. HSRP v2

C. VRRP

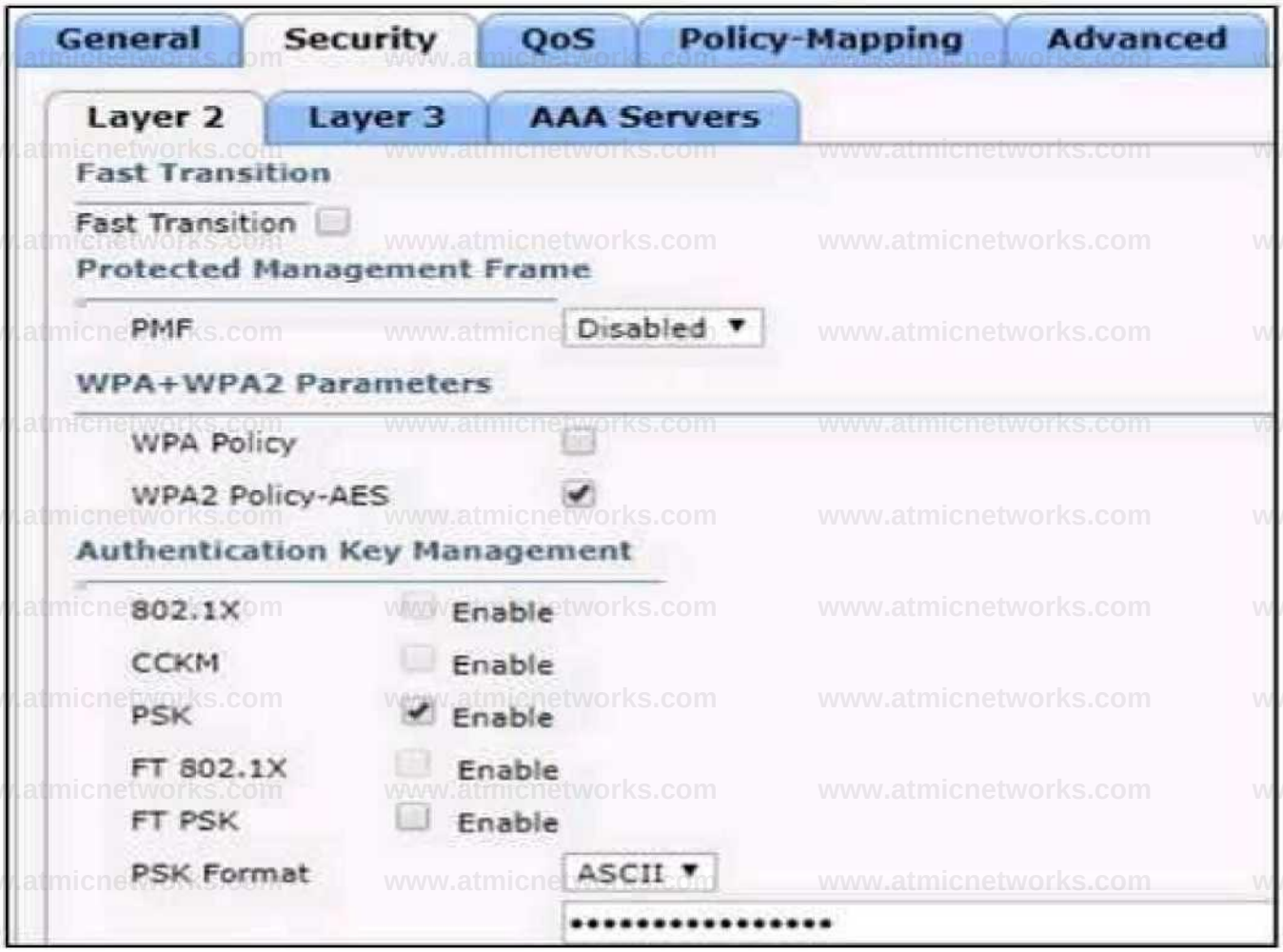
D. HSRP v1

Answer: A

Explanation:

Question: 288

Refer to the exhibit.



Based on the configuration in this WLAN security setting,Which method can a client use to authenticate to the network?

A. text string

B. username and password

C. certificate

D. RADIUS token

Answer: A

Explanation:

Question: 289

Which LISP device is responsible for publishing EID-to-RLOC mappings for a site?

A. ETR

B. MS

C. ITR

D. MR

Answer: A

Explanation:

Question: 290

Refer to the exhibit.

EjiterMted IP H<X£?SS $51 FGRFSS
10 permit ip 10.1.100.0 0.0.0.25 5 10.1.2.0 0.0.0.255
20 deny ip any any

An engineer must modify the access control list EGRESS to allow all IP traffic from subnet 10.1.10.0/24 to 10.1.2.0/24. The access control list is applied in the outbound direction on router interface GigabitEthemet 0/1. Which configuration commands can the engineer use to allow this traffic without disrupting existing traffic flows?

A)

config t
Ip access-list extended EGRESS permit Ip 10.1.10.0 255 255 255.0 10.1.2.0 255.255.255.0

B)

config t ip access-list extended EGRESS 5 permit ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255

C)

config t

Ip access-list extended EGRESS2 permit Ip 10.1.10.0 0.0.0.255 10.1.2.0 0.0.0.255 permit ip 10.1.100.0 0.0.0.255 10.1.2.0 0.0.0.255 deny ip any any

interface g0/1 no ip access-group EGRESS out ip access-group EGRESS2 out

D)

config t

ip access-list extended EGRESS permit Ip 10.1.10.0 0.0 0 255 10.1.2.0 0.0.0.255

Answer: B

Explanation:

Question: 291

On which protocol or technology is the fabric data plane based in Cisco SD-Access fabric?

A. LISP

B. IS-IS

C. Cisco TrustSec

D. VXLAN

Answer: D

Explanation:

Question: 292

Which statement describes the IP and MAC allocation requirements for virtual machines on types 1 hypervisors?

A. Each virtual machine requires a unique IP and MAC addresses to be able to reach to other nodes.

B. Each virtual machine requires a unique IP address but shares the MAC address with the physical server

C. Each virtual machines requires a unique IP address but shares the MAC address with the address of the physical

server.

D. Each virtual machine requires a unique MAC address but shares the IP address with the physical server.

Answer: A

Explanation:

Question: 293

Which HTTP status code is the correct response for a request with an incorrect password applied to a REST API session?

A. HTTP Status Code 200

B. HTTP Status Code 302

C. HTTP Status Code 401

D. HTTP Status Code: 504

Answer: C

Explanation:

Question: 294

Which two namespaces does the LISP network architecture and protocol use? (Choose two.)

A. TLOC

B. RLOC

C. DNS

D. VTEP

E. EID

Answer: B, E

Explanation:

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Question: 295

Which devices does Cisco DNA Center configure when deploying an IP-based access control policy?

A. All devices integrating with ISE

B. selected individual devices

C. all devices in selected sites

D. all wired devices

Answer: A

Explanation:

Question: 296

Which method displays text directly into the active console with a synchronous EEM applet policy?

A. event manager applet boomevent syslog pattern 'UP'action 1.0 gets 'logging directly to console'

B. event manager applet boomevent syslog pattern 'UP'action 1.0 syslog priority direct msg 'log directly to console'

C. event manager applet boomevent syslog pattern 'UP'action 1.0 puts 'logging directly to console'

D. event manager applet boomevent syslog pattern 'UP'action 1.0 string 'logging directly to console'

Answer: B

Explanation:

Question: 297

Which AP mode allows a supported AP to function like a WLAN client would, associating and identifying client connectivity issues?

A. SE-connect mode

B. sensor mode

C. client mode

D. sniffer mode

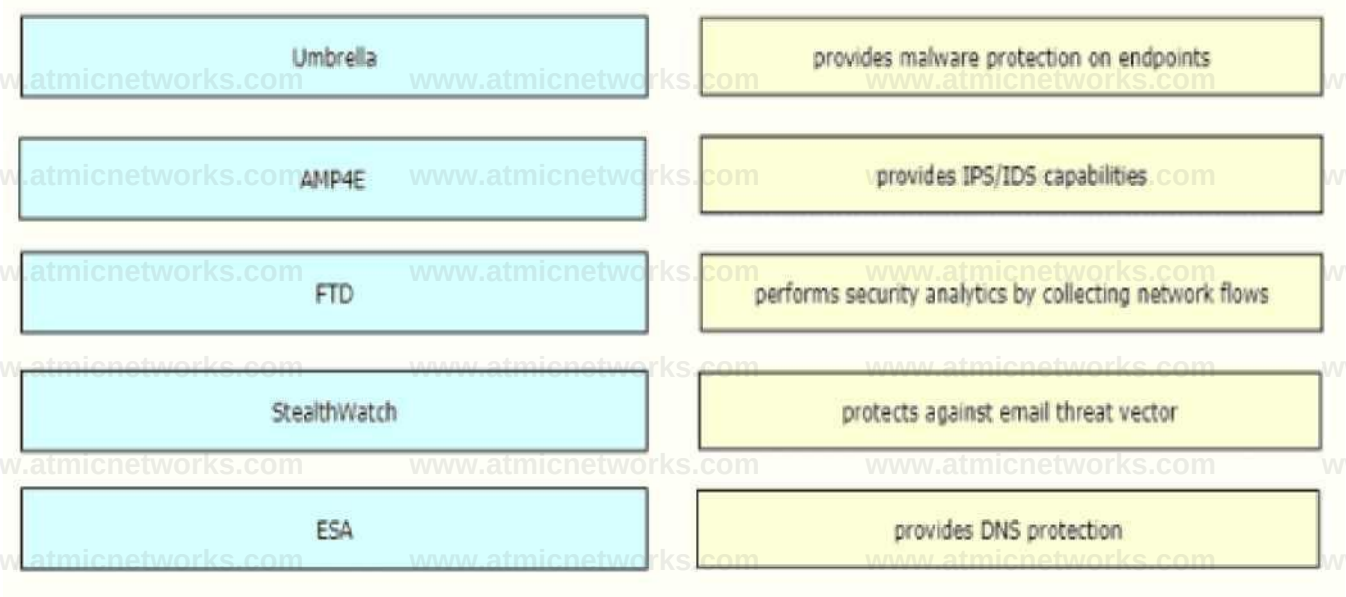
Answer: B

Explanation:

Question: 298

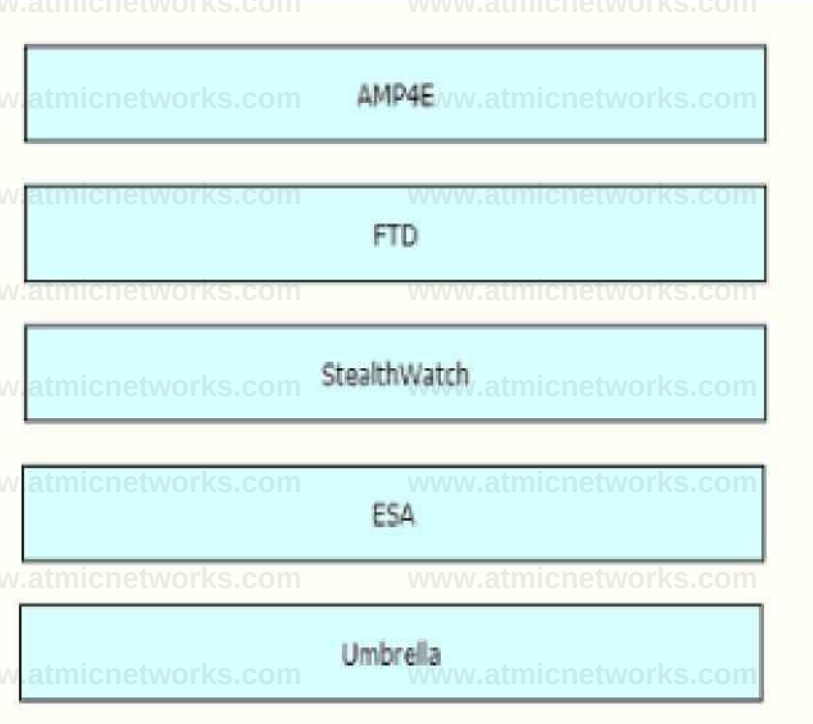
DRAG DROP

Drag and drop the threat defense solutions from the left onto their descriptions on the right.



Answer:

Explanation:



Question: 299

Which two pieces of information are necessary to compute SNR? (Choose two.)

A. EIRP

B. noise floor

C. antenna gain

D. RSSI

E. transmit power

Answer: B,D

Explanation:

Question: 300

An engineer configures a WLAN with fast transition enabled Some legacy clients fail to connect to this WLAN Which feature allows the legacy clients to connect while still allowing other clients to use

fast transition based on then OLTIs?

A. over the DS

B. adaptive R

C. 802.11V

D. 802.11k

Answer: B

Explanation:

Question: 301

Which exhibit displays a valid JSON file?

A)

```
{
    "hostname": "edge_router_1"
    "interfaces": {
        "GigabitEthernet1/1"
        "GigabitEthernet1/2"
        "GigabitEthernet1/3"
    }
}
```

B)

```
{
    "hostname": "edge_router_1",
    "interfaces": {
        "GigabitEthernet1/1",
        "GigabitEthernet1/2",
        "GigabitEthernet1/3",
    },
}
```

C)

```
{
    "hostname": "edge_router_1"
    "interfaces": [
        "GigabitEthernet1/1"
        "GigabitEthernet1/2"
        "GigabitEthernet1/3"
    ]
}
```

D)

```
{
    "hostname": "edge_router_1",
    "interfaces": [
        "GigabitEthernet1/1",
        "GigabitEthernet1/2",
        "GigabitEthernet1/3"
    ]
}
```

A. Option A

B. Option B

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C. Option C

D. Option D

Answer: D

Explanation:

Question: 302

Which method creates an EEM applet policy that is registered with EEM and runs on demand or manually?

A. event manager applet ondemandevent registeraction 1.0 syslog priority critical msg 'This is a message from ondemand'

B. event manager applet ondemandevent manualaction 1.0 syslog priority critical msg 'This is a message from ondemand'

C. event manager applet ondemandevent noneaction 1.0 syslog priority critical msg 'This is a message from ondemand'

D. event manager applet ondemandaction 1.0 syslog priority critical msg 'This is a message from ondemand'

Answer: C

Explanation:

Question: 303

How is a data modelling language used?

A. To enable data to be easily structured grouped validated and replicated

B. To represent finite and well-defined network elements that cannot be changed

C. To model the flows of unstructured data within the infrastructure

D. To provide human readability to scripting languages

Answer: A

Explanation:

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Question: 304

What is calculated using the numerical values of the transmitter power level, cable loss, and antenna gain?

A. EIRP

B. dBi

C. RSSI

D. SNR

Answer: A

Explanation:

Question: 305

Refer to the exhibit.

Name is Bob Johnson
Age is 75
IS alive

Favorite foods are:
* Cereal
* Mustard
* Onions

What is the JSON syntax that is formed the data?

A)

fName': 'Bob Johnson', "Age*: Seventylive, 'Alive': true. 'Favorite Foods': ('Cereal*, 'Mustard'. 'Onions*])

B)

fName': "Bob Johnson*. "Age*: 75. 'Alive'*: true. 'Favorite Foods': ["Cereal', 'Mustard*. 'Onions']}

C)

{Name: Bob Johnson, Age: 75. Alive: true. Favorite Foods: (Cereal, Mustard, Onions)}

D)

{Name': Bob Johnson’, ’Age': 75. 'Alive': True. 'Favorite Foods': 'Cereal', 'Mustard'. 'Onions'}

A. Option A

B. Option B

C. Option C

D. Option D

Answer: B

Explanation:

Question: 306

What is the responsibility of a secondary WLC?

A. It avoids congestion on the primary controller by sharing the registration load on the LAPs.

B. It registers the LAPs if the primary controller fails.

C. It enables Layer 2 and Layer 3 roaming between itself and the primary controller.

D. It shares the traffic load of the LAPs with the primary controller

Answer: B

Explanation:

Question: 307

When a wireless client roams between two different wireless controllers, a network connectivity outage is experience for a period of time. Which configuration issue would cause this problem?

A. Not all of the controllers in the mobility group are using the same mobility group name.

B. All of the controllers within the mobility group are using the same virtual Interface IP address.

C. Not all of the controllers within the mobility group are using the same virtual interface IP address.

D. All of the controllers in the mobility group are using the same mobility group name

Answer: C

Explanation:

Question: 308

An engineer is configuring local web authentication on a WLAN. The engineer chooses the Authentication radio button under the Layer 3 Security options for Web Policy. Which device presents the web authentication for the WLAN?

A. ISE server

B. local WLC

C. RADIUS server

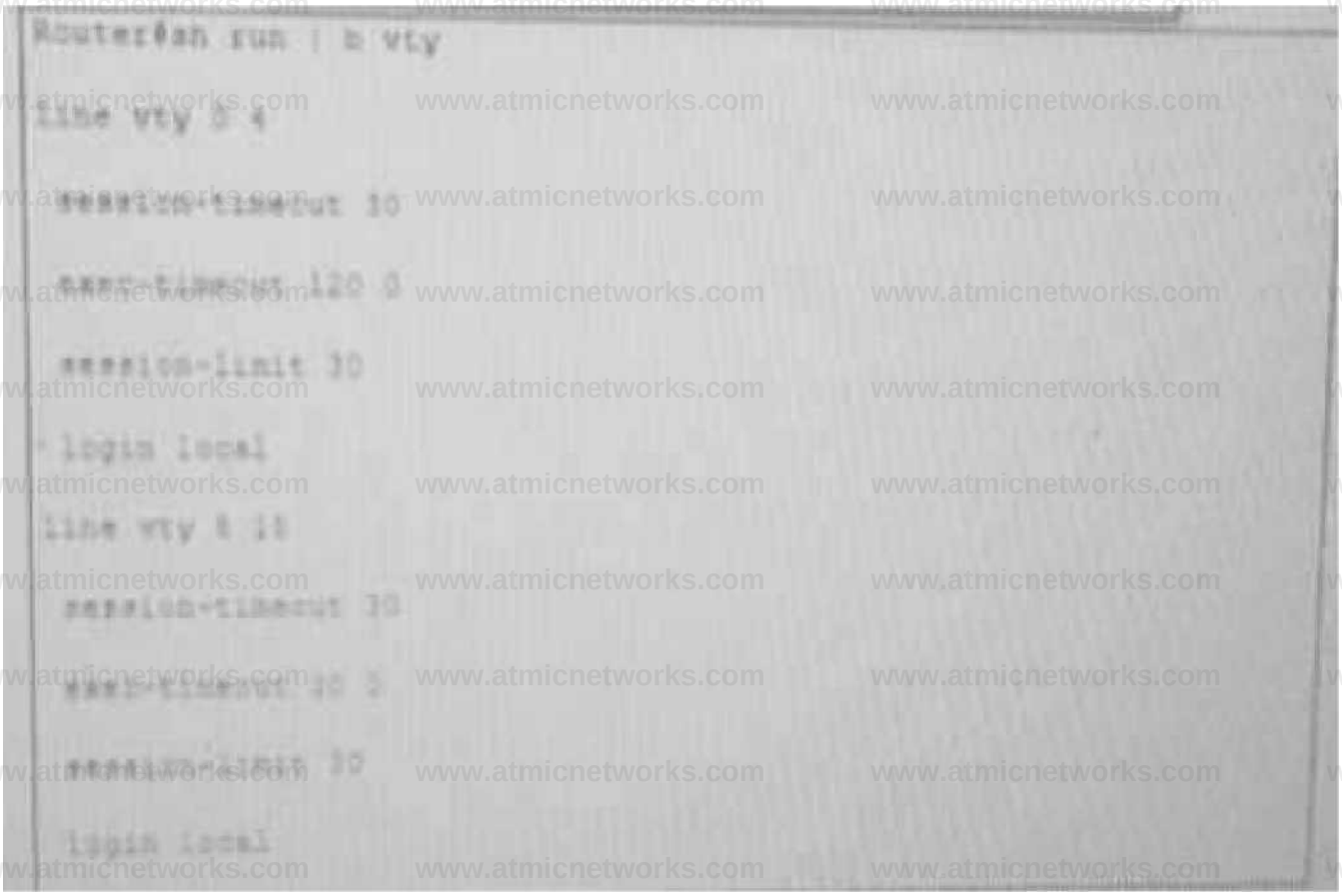
D. anchor WLC

Answer: B

Explanation:

Question: 309

Exhibit.



Security policy requires all idle-exec sessions to be terminated in 600 seconds. Which configuration achieves this goal?

A. line vty 0 15absolute-timeout 600

B. line vty 0 15exec-timeout

C. line vty 01 5exec-timeout 10 0

D. line vty 0 4exec-timeout 600

Answer: C

Explanation:

Question: 310

Refer to the exhibit.

Make is Gocar
Model is Zoom

Features are:

- Power Windows
- Manual Drive

- AlltO AC

What is the JSON syntax that is formed from the data?

A. Make”:‘Gocar, “Model’: “Zoom”, “Features”: [“Power Windows”, “Manual Dnve”, “Auto AC”]}

B. 'Make ”: “Gocar1, “Model”: “Zoom”, “Features”: [“Power Windows”, “Manual Drive”, “Auto AC”]

C. {“Make”: Gocar, “Model": Zoom, “Features": Power Windows, Manual Drive, Auto AC}

D. (“Make”:[“Gocar”, “Model": “Zoom"], Features”: [“Power Windows", “Manual Drive", “Auto AC”]}

Answer: A

Explanation:

Question: 311

In a wireless Cisco SD-Access deployment, which roaming method is used when a user moves from one access point to another on a different access switch using a single WLC?

A. Layer 3

B. inter-xTR

C. auto anchor

D. fast roam

Answer: B

Explanation:

Question: 312

What is a fact about Cisco EAP-FAST?

A. It requires a client certificate.

B. It operates in transparent mode.

C. It Is an IETF standard.

D. It does not require a RADIUS server certificate.

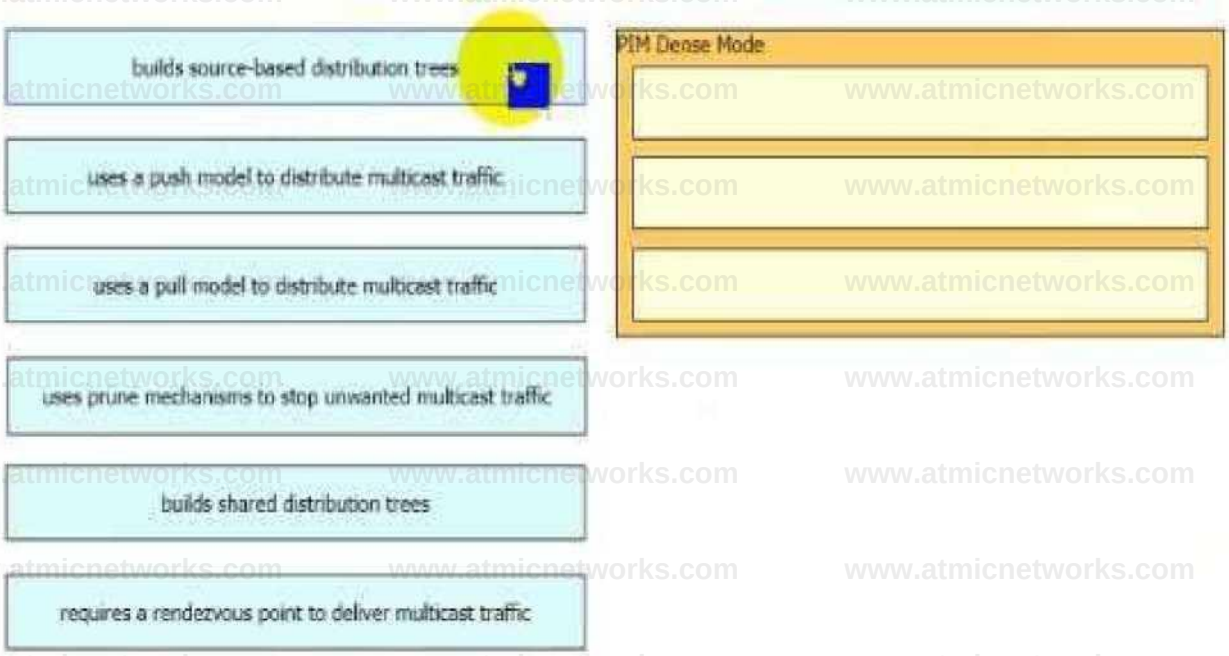
Answer: D

Explanation:

Question: 313

DRAG DROP

Drag and drop characteristics of PIM dense mode from the left to the right.



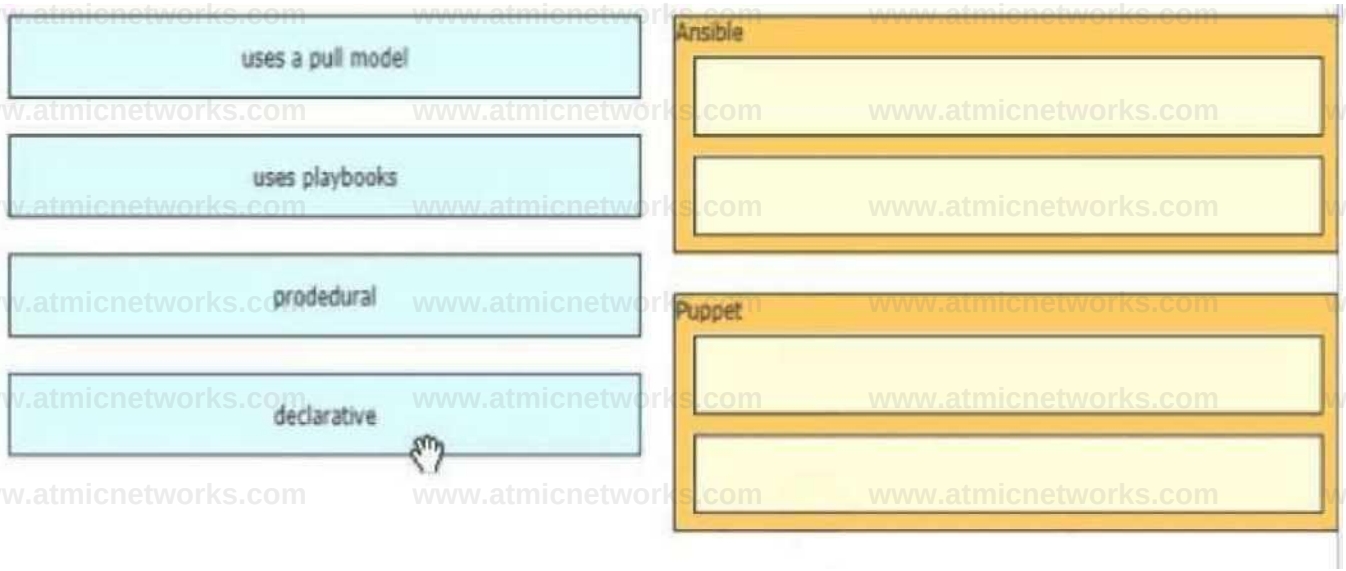
Explanation:

Answer:

Question: 314

DRAG DROP

Drag and drop the characteristics from the left onto the orchestration tools that they describe on the right.



Answer:

Explanation:

Question: 315

In a Cisco SD-Access wireless environment, which device is responsible for hosting the anycast gateway?

A. fusion router

B. control plane node

C. fabric border node

D. fabric edge node

Answer: D

Explanation:

Question: 316

When does a Cisco StackWise primary switch lose its role?

A. when a stack member fails

B. when the stack primary is reset

C. when a switch with a higher priority is added to the stack

D. when the priority value of a stack member is changed to a higher value

Answer: C

Explanation:

Question: 317

What is one primary REST security design principle?

A. fail-safe defaults

B. password hash

C. adding a timestamp in requests

D. OAuth

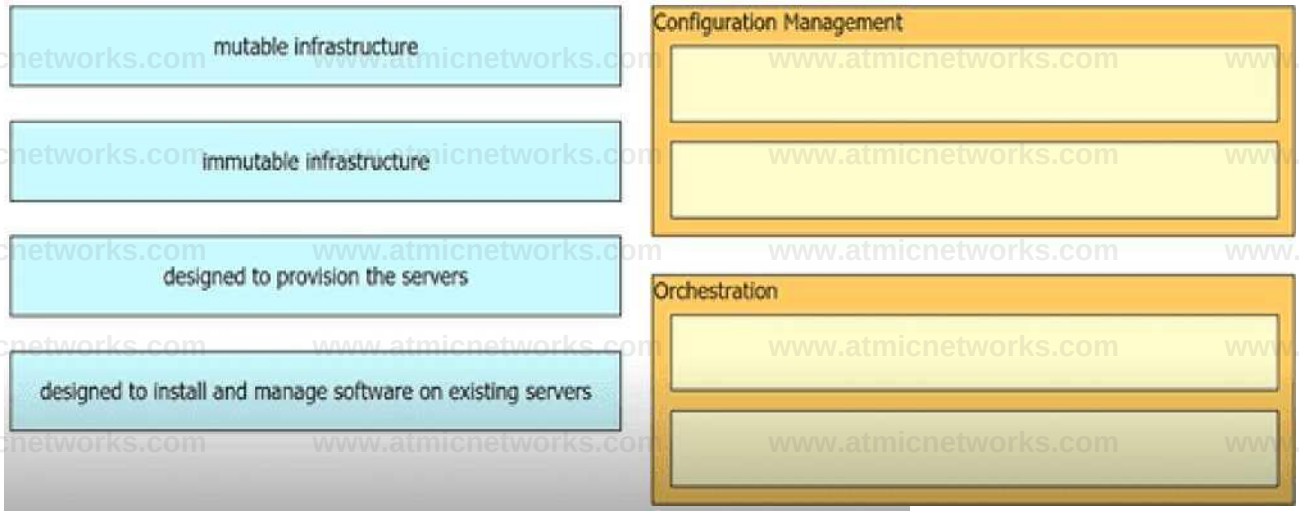
Answer: A

Explanation:

Question: 318

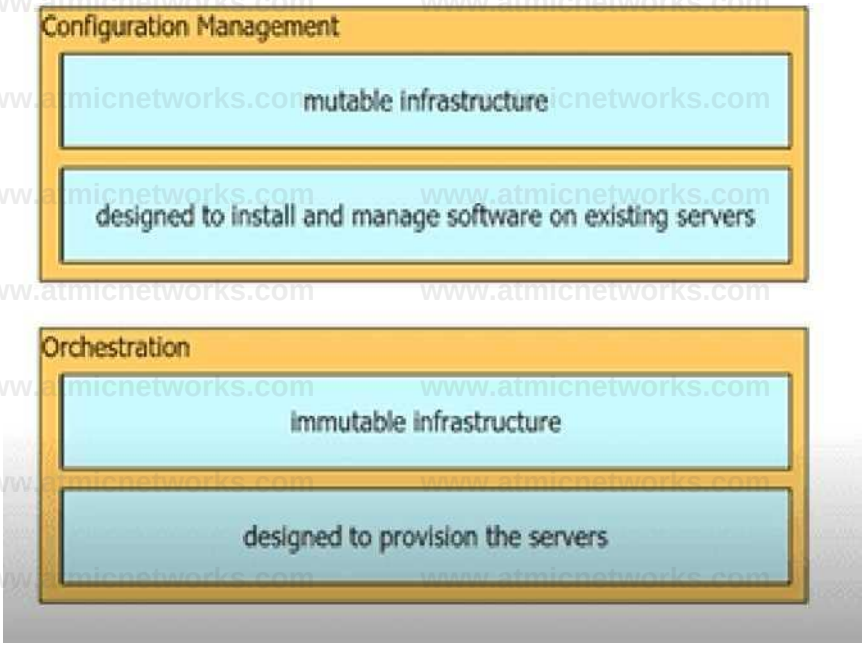
DRAG DROP

Drag and drop the characteristics from the left onto the orchestration tool classifications on the right.



Answer:

Explanation:



Question: 319

A company recently decided to use RESTCONF instead of NETCONF. and many of their NETCONF scripts contain the operation <edit-config> (operation-create). Which RESTCONF operation must be used to replace these statements?

A. CREATE

B. POST

C. GET

D. PUT

Answer: B

Explanation:

Question: 320

Which technology reduces the implementation of STP and leverages both unicast and multicast?

A. VLAN

B. VXLAN

C. VPC

D. VSS

Answer: B

Explanation:

Question: 321

In a Cisco SD-Access solution, which protocol is used by an extended node to connect to a single edge node?

A. VXIAN

B. IS-IS

C. 802.1

D. CTS

Answer: C

Explanation:

Question: 322

What is a benefit of YANG modules?

A. tightly coupled models with encoding to improve performance

B. easier multivendor interoperability provided by common or industry models

C. avoidance of ecosystem fragmentation by having fixed modules that cannot be changed

D. single protocol and model coupling to simplify maintenance and support

Answer: B

Explanation:

Question: 323

What is used by vManage to interact with Cisco SD-WAN devices in the fabric?

A. northbound API

B. RESTCONF

C. sounthbound API

D. IPsec

Answer: C

Explanation:

Question: 324

An engineer must create an EEM applet that sends a syslog message in the event a change happens in the network due to trouble with an OSPF process. Which action should the engineer use?

event manager applet LogMessage

event routing network 172.30.197.0/24 type all

A. action 1 syslog send "OSPF ROUTING ERROR"

B. action 1 syslog pattern "OSPF ROUTING ERROR"

C. action 1 syslog write "OSPF ROUTING ERROR"

D. action 1 syslog msg "OSPF ROUTING ERROR"

Answer: B

Explanation:

Question: 325

Which multicast operational mode sends a prune message to the source when there are no connected members or downstream neighbors?

A. PIM sparse mode

B. PIM dense mode

C. IGMPv3

D. IGMPv2

Answer: B

Explanation:

Question: 326

Which protocol does Cisco Catalyst Center (formerly DNA Center) SDK use to discover the topology of non-Cisco devices in a network?

A. CDP

B. LLDP

C. Telnet

D. SSH

Answer: B

Explanation:

Question: 327

What is a client considered when it is in web authentication state and roams between two controllers with mobility tunnels?

A. anchor

B. mobile

C. foreign

D. new

Answer: C

Explanation:

Question: 328

Refer to the exhibit.

```
device_ip = {
    "site1-cedge01": '10.10.1.11',
    "site2-cedge01": '10.10.1.12',
    "site3-vedge01": '10.10.1.13'
}
```

Refer to the exhibit. The key value pairs must be extracted by iterating through a list of tuples. Which statement completes the snippet and prints each key value pair as a tuple?

A. for device, value In device_ip.items(): print(device)

B. for device in device_ip.items(): print(device)

C. for device in device_ip.values(): print(device)

D. for device in deviceip: print(device)

Answer: A

Explanation:

Question: 329

Refer to the exhibit.

```
for x in range(0, 5):
    print(x)
```

Refer to the exhibit. What is output by this code?

A. 012345

B. (0.5)

C. 05

D. 01234

Answer: A

Explanation:

Question: 330

What are two benefits of virtualizing the server with the use of VMs in a data center environment? (Choose two.)

A. smaller Layer 2 domain

B. speedy deployment

C. increased security

D. reduced IP and MAC address requirements

E. reduced rack space, power, and cooling requirements

Answer: B,E

Explanation:

Question: 331

Which type of tunnel is required between two WLCs to enable intercontroller roaming?

A. LWAPP

B. CAPWAP

C. IPsec

D. mobility

Answer: D

Explanation:

Question: 332

Which feature is offered by the Cisco Advanced Malware Protection for Endpoints solution?

A. DNS Protection

B. NetFlow

C. Trustsec

D. File Sandboxing

Answer: D

Explanation:

Question: 333

In a fabric-enabled wireless network, which device is responsible for maintaining the endpoint ID database?

A. fabric border node

B. fabric edge node

C. fabric wireless controller

D. control plane node

Answer: D

Explanation:

Question: 334

Refer to the exhibit.

Reutertah tun : "/

lint vty ' T

I.;.- Liral

Line -z; 5 :■

1;jin Ideal

Refer to the exhibit. The existing configuration must be updated to terminate all EXEC sessions after 120 minutes. Which command set should be applied?

A. line vty 0 15session-limit 120

B. line vty 0 15exec-timeout 120

C. line vty 0 15absolute-timeout 120

D. line vty 0 15session-timeout 120

Answer: B

Explanation:

Question: 335

Which two operational modes enable an AP to scan one or more wireless channels for rogue access points and at the same time provide wireless services to clients? (Choose two.)

A. local

B. rogue detector

C. monitor

D. FlexConnect

E. sniffer

Answer: A,D

Explanation:

Question: 336

Which authorization framework gives third-party applications limited access to HTTP services?

A. IPsec

B. GRE

C. Basic Auth

D. OAuth 2.0

Answer: D

Explanation:

Question: 337

Which security feature does stateless authentication and authorization use for REST API calls?

A. OAuth 2 tokens

B. cookie-based session authentication

C. API keys

D. SSL/TLS certificate encryption

Answer: A

Explanation:

Question: 338

What happens when a FlexConnect AP changes to standalone mode?

A. All client roaming continues to work.

B. All controller-dependent activities stop working except the DFS.

C. Only clients on central switching WLANs stay connected.

D. All clients on all WLANs are disconnected.

Answer: B

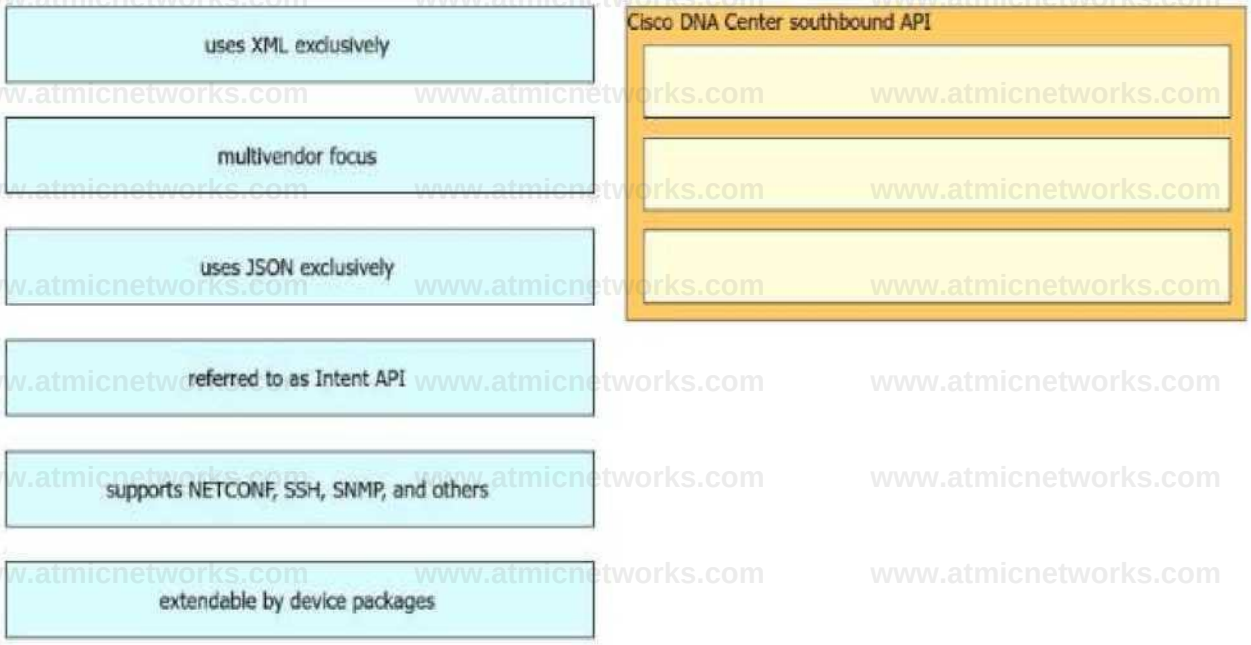
Explanation:

Question: 339

DRAG DROP

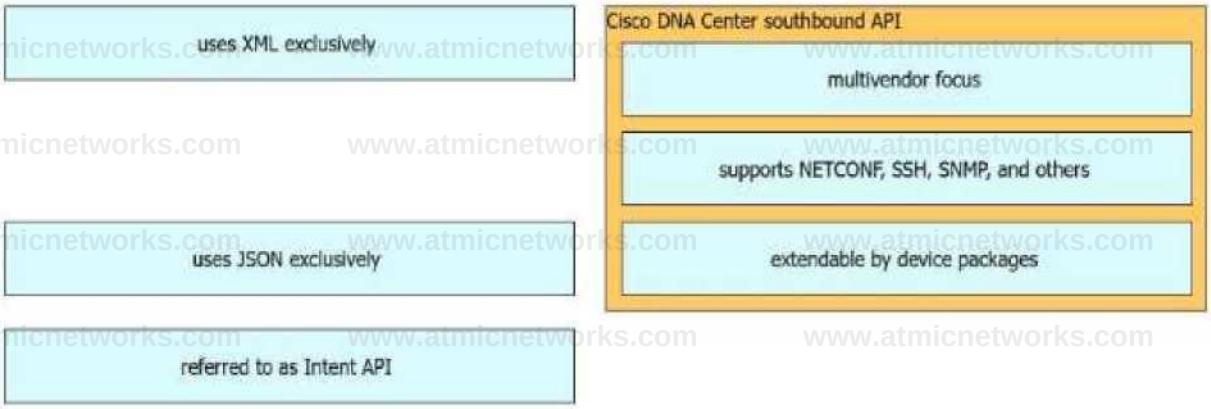
Drag and drop the Cisco Catalyst Center (formerly DNA Center) southbound API characteristics from the left to the right.

Not all options are used.



Answer:

Explanation:



Question: 340

Which solution should be used in a high-density wireless environment to increase bandwidth for each user?

A. Increase antenna size.

B. Increase the cell size of each AP.

C. Increase the mandatory minimum data rate.

D. Increase TX power.

Answer: C

Explanation:

Question: 341

An engineer must configure a new WLAN that supports 802.11r and requires users to enter a passphrase. What must be configured to support this requirement?

A. 802.1XandSUITEB-1X

B. FT PSK and Fast Transition

C. 802.1X and Fast Transition

D. FTPSKandSUITEB-1X

Answer: B

Explanation:

Question: 342

What are two best practices when designing a campus Layer 3 infrastructure? (Choose two.)

A. Summarize routes from the aggregation layer toward the core layer.

B. Summarize from the access layer toward the aggregation layer.

C. Configure passive-interface on nontransit links.

D. Implement security features at the core.

E. Tune Cisco Express Forwarding load balancing hash for ECMP routing.

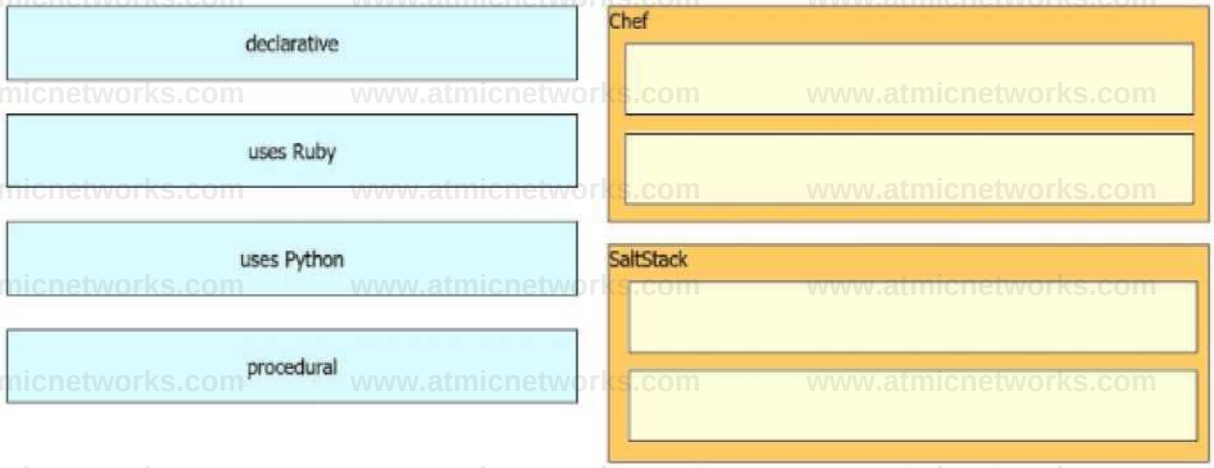
Answer: A,E

Explanation:

Question: 343

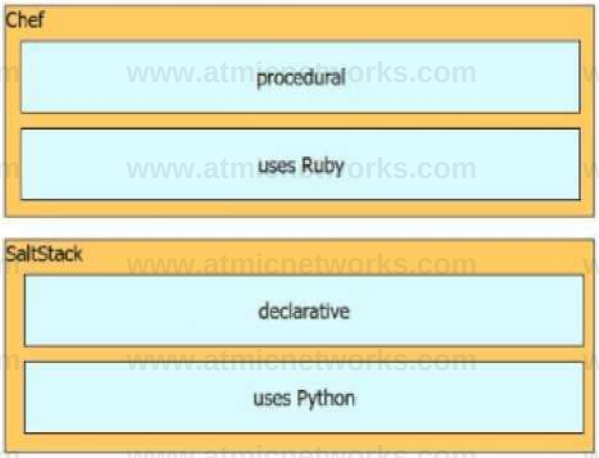
DRAG DROP

Drag and drop the characteristics from the left onto the orchestration tools that they describe on the right.



Answer:

Explanation:



Question: 344

Which Cisco WLC feature allows a wireless device to perform a Layer 3 roam between two separate controllers without changing the client IP address?

A. mobile IP

B. mobility tunnel

C. LWAPP tunnel

D. GRE tunnel

Answer: B

Explanation:

Question: 345

What is a benefit of Cisco TrustSec in a multilayered LAN network design?

A. Policy can be applied on a hop-by-hop basis.

B. There is no requirement to run IEEE 802.1X when TrustSec is enabled on a switch port

C. Application flows between hosts on the LAN to remote destinations can be encrypted.

D. Policy or ACLs are not required.

Answer: C

Explanation:

Question: 346

Which two protocols are used with YANG data models? (Choose two.)

A. NETCONF

B. RESTCONF

C. SSH

D. TLS

E. HTTPS

Answer: A,B

Explanation:

Question: 347

DRAG DROP

Drag and drop the command snippets from the right onto the blanks in the configuration to create an EEM applet that will enable interface Loopback0 and log a message when the logging message - Interface Loopback0. changed state to administratively down" is received. Not all commands are used.

```
event [          ] Enable_Loopback0
event [          ] "Interface Loopback0, changed state to administratively down"
action 1.0 cli command "enable"
action 2.0 cli command "configure terminal"
action 3.0 cli command "interface loopback 0"
action 4.0 cli command "no shutdown"
action 5.0 [          ] "Loopback0 has been enabled"
action 6.0 cli command "end"
```

- syslog msg
- syslog pattern
- manager applet
- manager detector

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Answer:

Explanation:

```
^nt I maw* wfet ] EnableloopbackO
event | syslog pattern ["Interface LoopbackO, changed state to administratively down" action 1.0 cli command "enable"
action 2.0 cli command "configure terminal"
action 3.0 cli command "interface loopback 0"
action 4.0 cli command "no shutdown"
action 5.0 | syslogmsg ]"LoopbackO has been enabled"
action 6.0 cli command "end"
```

syslog msg
syslog pattern
manager applet
manager detector

Question: 348

Which WLC discovery method uses CISCO-CAPWAP-CONTROLLER as an identifier?

A. static configuration

B. DHCP

C. L3 broadcast

D. DNS

Answer: D

Explanation:

Question: 349

How do FHRPs differ from SSO?

A. FHRPs provide gateway redundancy, and SSO provides failover within a single device

B. FHRPs maintain state information within a single device, and SSO manages state information across multiple devices.

C. FHRPs use OTV for redundancy, and SSO uses VXLAN for state synchronization.

D. FHRPs influence bandwidth allocation, and SSO influences routing decisions.

Answer: A

Explanation:

Question: 350

What is the recommended minimum SNR for Voice applications for networks?

A. 15

B. 20

C. 25

D. 10

Answer: C

Explanation:

Question: 351

Which A record type should be configured for access points to resolve the IP address of a wireless LAN controller using DNS?

A. CISCO.CONTROLLER.Iocaldomain

B. CISCO.CAPWARCONTROLLERJocaldomain

C. CISCO-CONTROLLER.Iocaldomain

D. CISCO-CAPWAP-CONTROLLER.Iocaldomain

Answer: D

Explanation:

Topic 2, Simulation

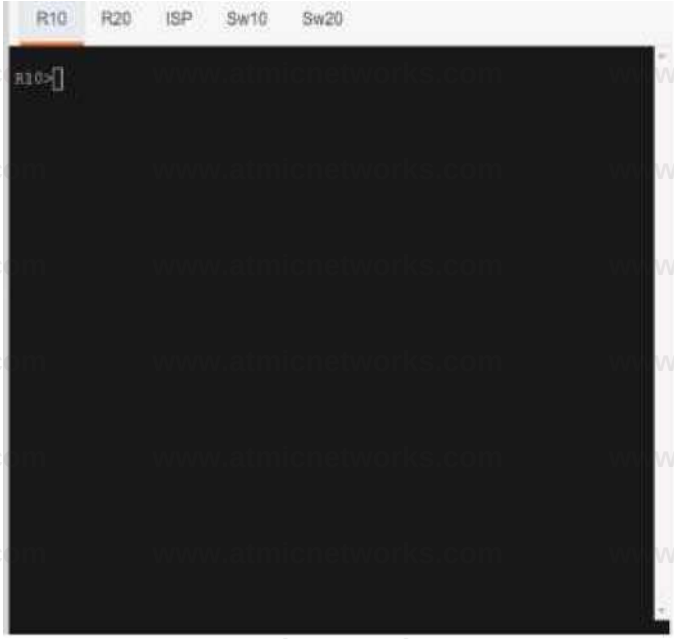
Question: 352

SIMULATION

Guidelines Topology

The operations team started configunng network devices for a new site R10 and R20 are preconfigured with the CORP VRF. RIO has network connectivity to R20 Complete the configurations to achieve these goals:

1. Extend the CORP VRF between R10 and R20 using TunnelO.
2. Configure static routing on RIO and R20 so that users In VLAN 100 and VLAN 101 that belong to the CORP VRF are able to communicate Mth each other. TunnelO should be the only Interface used to route traffic for the CORP VRF.



OR

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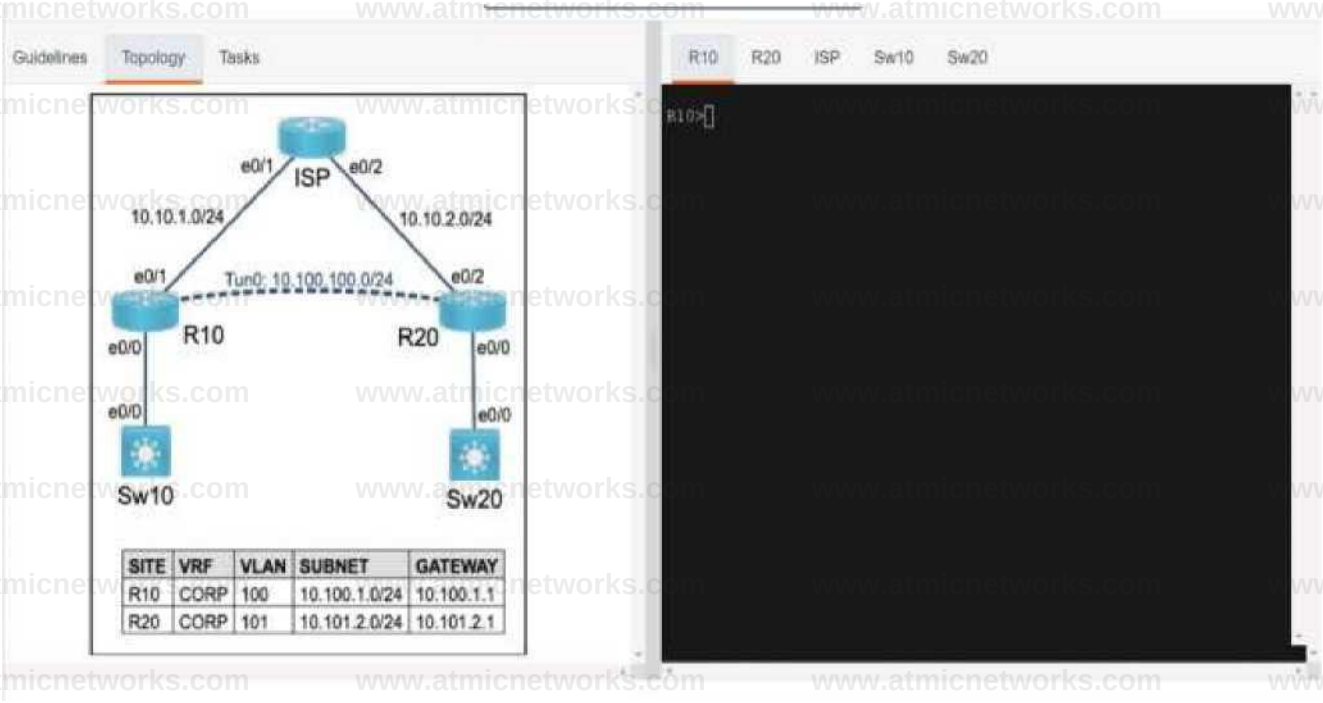
Guidelines Topology Tasks

The operations team started configuring network devices for a new site. R10 and R20 are preconfigured with the CORP VRF. R10 has network connectivity to R20. Complete the configurations to achieve these goals:

1. Extend the CORP VRF between R10 and R20 using Tunnel0.
2. Protect Tunnel0 using the preconfigured profile
3. Configure static routing on R10 and R20 so that users in VLANs100 and 101 that belong to the CORP VRF are able to communicate with each other. Tunnel0 should be the only interface used to route traffic for the CORP VRF



Answer: See the solution below in

Explanation:

Solution:

R10

```
interface runnel0 vrf forwarding CORP ip address 10.100*100.1
 255.255*255*0 tunnel source Ethernet0/1 tunnel destination 10.10*2
 1
 tunnel protection ipsec profile MyProfile end
```

```
Riot
RlOf
RI 01 RlOt RlOt RlGtconf t Enter configuration coannands, one per
line. End with CNTL/

RIO(config)tip route vrf CORP 10.101.2.0 255.255*255.0 tuO
```

Copy run start

R20

```
interface TuhnelO vrf forwarding CORP ip address 10.100.100.2
 255.255.255.0 tunnel source EthernetO/2 runnel destination 10-10.1-1
 tunnel protection ipsec profile MyProfile end
```

```
R20I
R20J
RZQfcOhf t
Enter configuration commands, one per line. End with CNTL/ a.
R2Q(config)f
R20(config)I
R20(config)I
R20(config) i
R20(config)f
R20(config}jip route vrf CORF 10.100.1.0 255.255.255.0 tuO
```

Copy run start

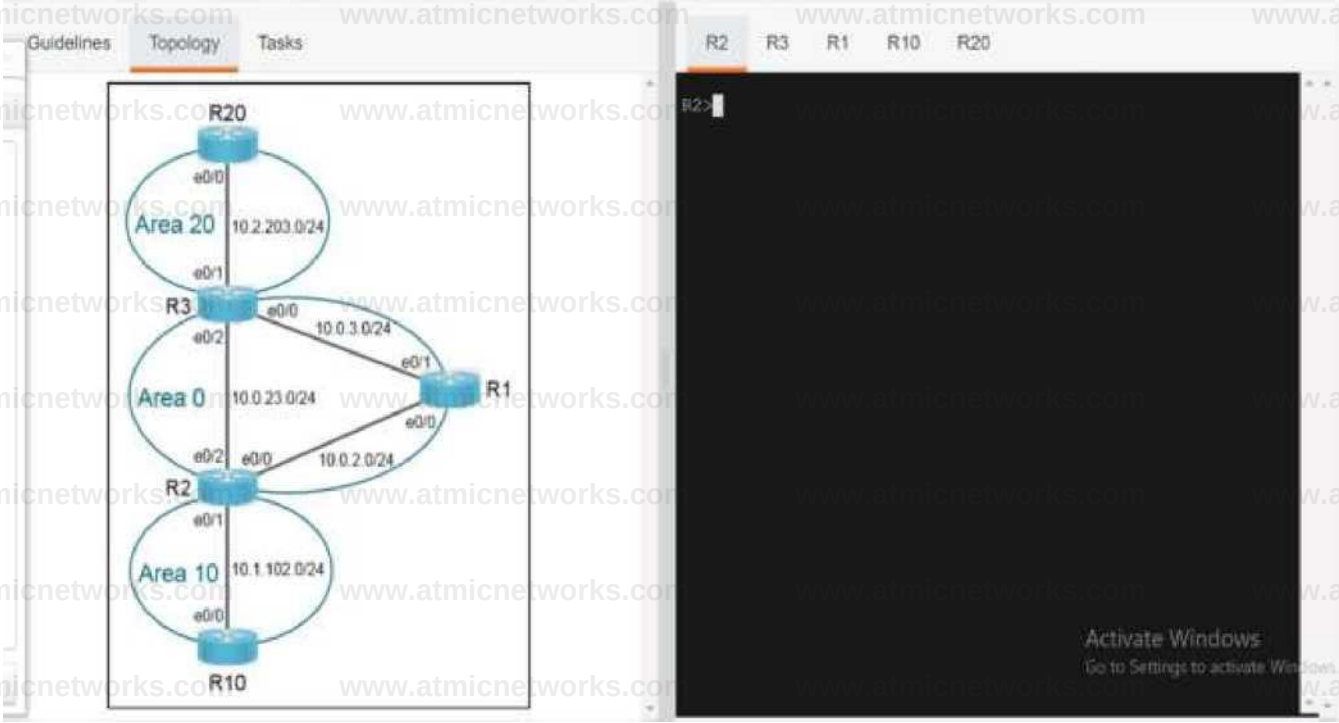
Verification:

```
RlOtping vrf CORP KM01.2H

Type escape sequence to abort.

Sending 5, lOO-byte ICMP Echos to 10.101.2.1, timeout is 2 seconds: '
I I I | ■ i a a i

Success rate is 100 percent (5/5)r round-trip min/avg/max - 4/5/6 ms
```

Question: 353

SIMULATION

Guidelines Topology Tasks



DSPF is partially configured Complete the OSPF configurations to achieve these goats:

1. **Configure R3 and R20 so they do not participate in a DR/BDR election process in Area 20.**
2. **Configure RIO so it is always the DR for Area 10. Do not change the router ID**

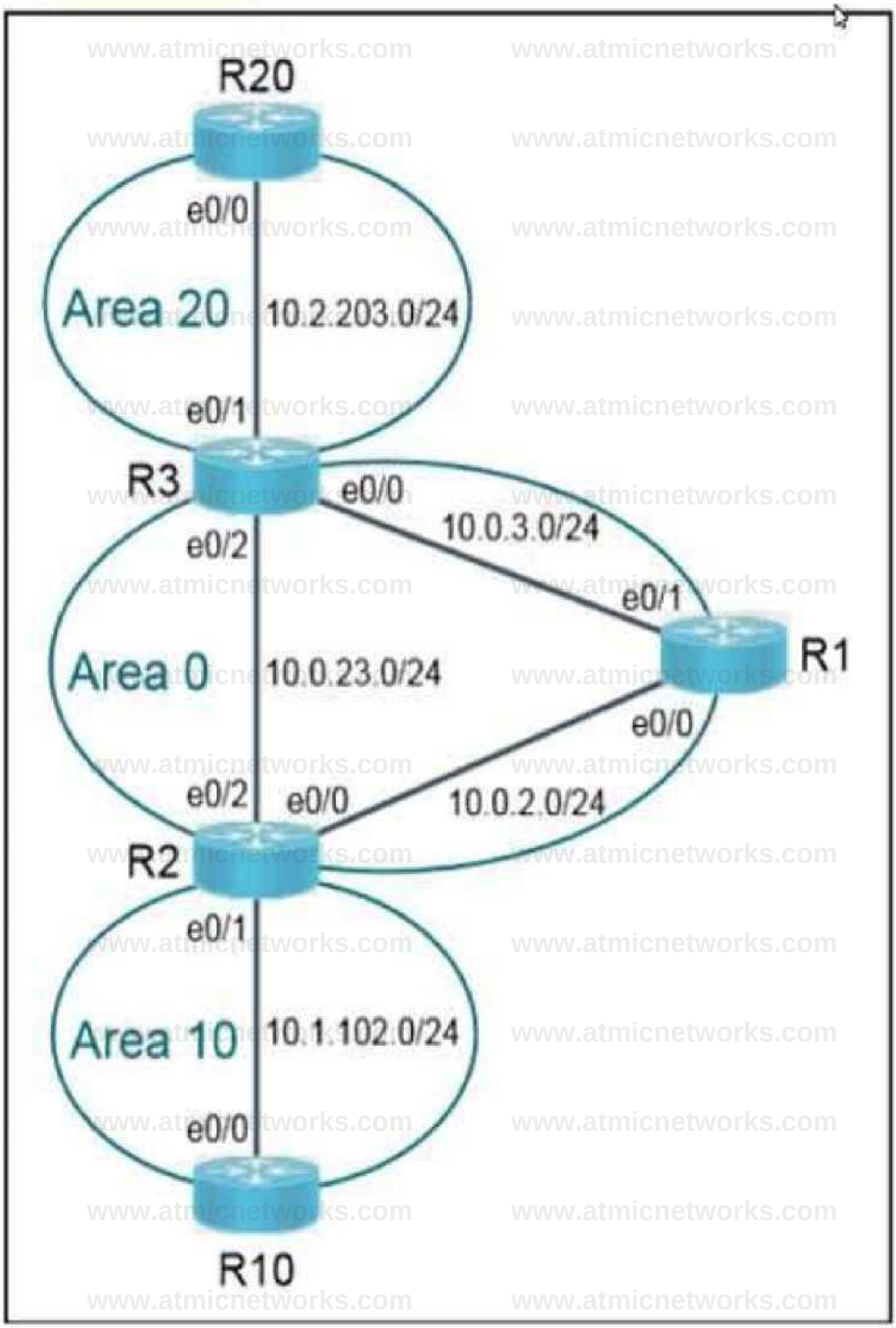
Guidelines Topology Tasks

OSPF is partially configured.

Complete the OSPF configurations to achieve these goals:

1. Configure R3 and R20 so they do not participate in a DR/BDR election process in Area 20.
2. Configure R10 so it is always the DR for Area 10. Do not change the router ID.

Guidelines | Topology | Tasks



Answer: See the solution below in

Explanation:

Solution:

```
R20lsh run int eO/O Building
configuration**.

Current configuration : 112 bytes

interface EthernetO/O

 ip address 10.2.203.20 255.255.255.0 ip
ospf network point-to-point duplex auto
end
```

Copy run start

```
R3#sh run int eO/1
Building configuration...

Current configuration : 111 bytes

interface Ethernet0/1
 ip address 10.2.203.3 255.255.255.0
 ip ospf network point-to-point
 duplex auto
end
```

Copy run start

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```
RlOlsh run int eO/O

BuiIding configuratton...
```

```
Current configuration : 102 bytes i
```

```
interface EthernetO/O

  ip address 10.1.102.10 255.255.255.0
  ip ospf priority 255
  duplex auto end
```

Copy run start

Verification:-

```
Ri QI ciear ip ospf process
Reset ALL OSPF processes? [no|; yas
FUOt
*Nav 11 10:21:39,702; tOSFF-5 ALUCHG: Process 10, Kbr 10,0,
1.2 on EthernotO/O fem FULL to DOWN, Holghbor Down: Int&rf
Jtte down or detached                                Activate Windows
•Nov 17 10:21:39.703; l0SPF-5-MMCHG: ᵖ£85#^tt;lS<^feM^
I,? on FJ hnrnf lO/O fmm LOADING to FULL, LOa<l M^ Dope moil _____
_____________________________________________

Hl Ofshow ip ospf nei RI Dishaw ip ospr ntikrjhtor
```

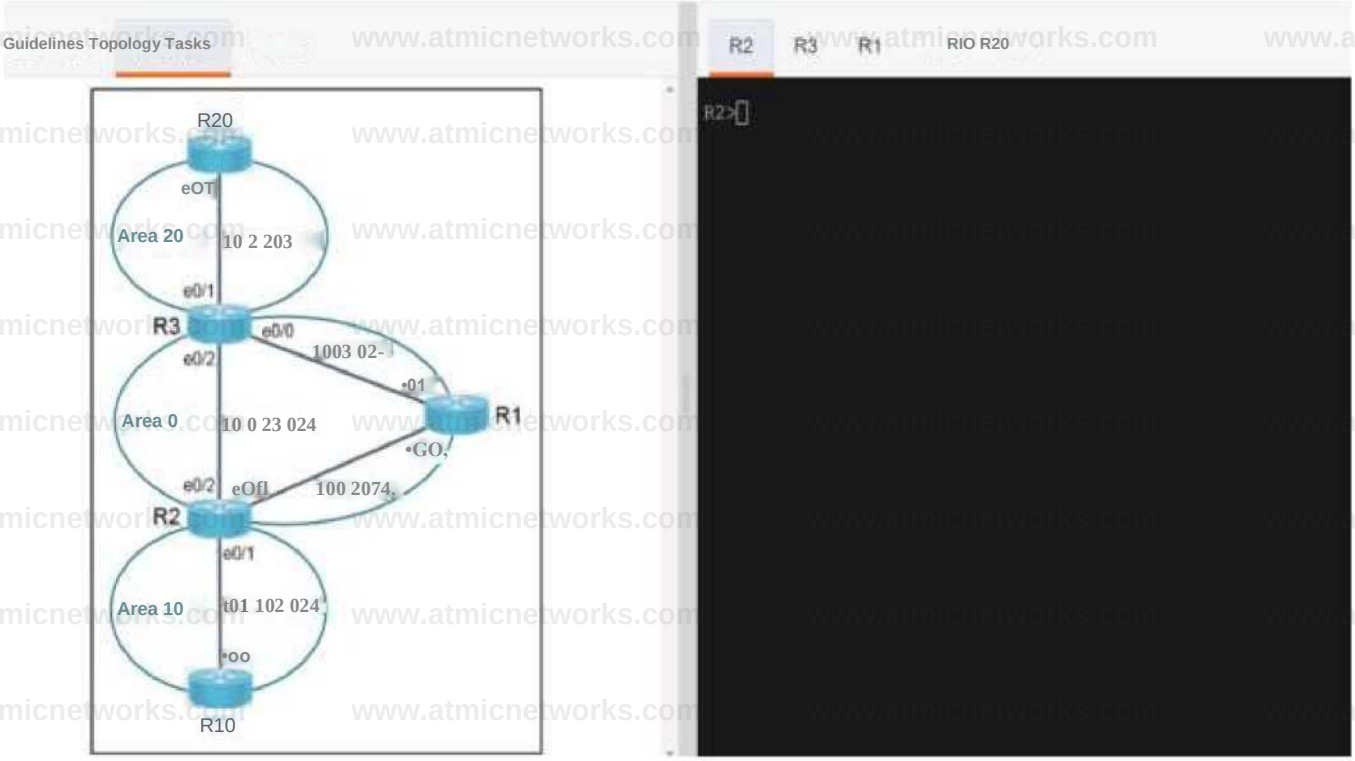
```
Neighbor ID          Pri      State
          Interface
10.0.1.2                1    RJLWDR
2 Etharneto/Q RW||
```

```
Dead Tiro Address
Activate Windows
O^W^ J?^.,^,
```

OR

Question: 354

SIMULATION



Guidelines Topology Tasks

OSPF is partially configured on all devices. Complete the configurations to achieve these goals:

R2 R3 RI RIO R20

1. Configure R2 to always be the DR in Area 10. Do not change the router ID.
2. Configure a single command on R2 to summarize area 10 routes Into a single route.

Answer: See the solution below in

Explanation:

Solution:

```
2.
R2(config)#int et0/1
R2(config-if)#ip ospf pro
R2(config-if)#ip ospf pri
R2(config-if)#ip ospf priority 255
R2(config-if)#
```

```
R2(config)#router ospf 10
R2(config-router)fares 10 ran
R2(config-router)farea 10 range 10.1.0.0 255.255.0.0
R2(config-router)f
R2 (corf i                    H
```

```
z.
R3(config)tint etO/1
R3(config-if)lip ospf net
R3(config-if)lip ospf network po
R3(config-if)lip ospf network point-to-po
R3(config-if)lip ospf network point-to-point
R3 (config-if)I
*Nov 15 13:23:04.026: %OSPF-5-ADJCHG: Process 10, Nbr 10.
1.1    on EthernetO/1 from FULL to DOWN, Neighbor Down: Inte ace
down or detached
♦Nov 15 13:23:04.027: %OSPF-4-NETTYPEMISMATCH: Received
ello from 10.2.1.1 on Ethernet0/l indicating a potential network type
                    mismatch
R3(config-if)I
♦Nov 15 13:23:04.027: %OSPF-5-ADJCHG: Process 10, Nbr 10.
1.2   on EthernetO/1 from LOADING to FULL, Loading Done
R3(config-if)lexit
R3(config)lint et0/l
R3(config-if)lip ospf net
R3(config-if)lip ospf network po
R3(config-if)lip ospf network point-to-po
R3(config-if)I ip ospf network point-to-point
R3(config-if)ll
```

VERIFICATION: -

```
1  .z on nunexneLU/u LLoni DWMUIDO LO runij, nodaxny Done R10|sh ip ospf neighbor
```

```
Neighbor ID        Pri      State              Dead Time     Address
Interface
10.0.1.2           255      FULL/DR            00:00:38      10.1.102.
2  Ethernet0/0
R10I
R10I _____________________________________________________________
```

OR

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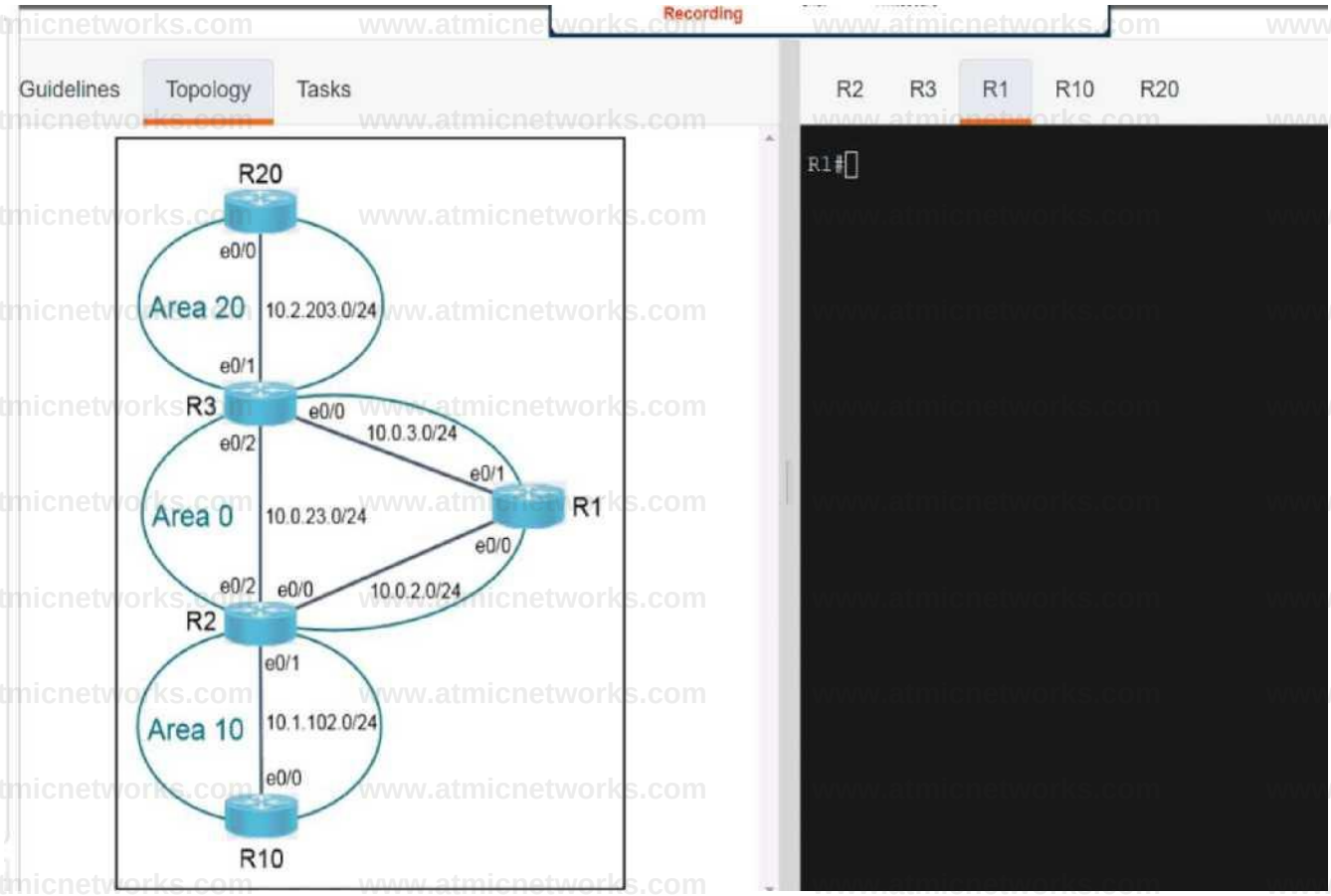
Question: 355

SIMULATION



Guidelines Topology Tasks R2 R3

RIf[

DSPF is partially configured. Complete the OSPF configurations to achieve these goals:

1. Configure OSPF on router R1 according to the topology so that all networks are advertised. Do not use the network statement under the "router ospf configuration section to accomplish this task.
2. Configure a single command on the ABR routers to ensure only one summary route is advertised to area 0.

Answer: See the solution below in

Explanation:

Solution:

R1

en

Conf t

Router ospf 10

Router-id 10.x.x.x – lo0 address

Int range lo0, e0/0-1

Ip ospf 10 area 0

Exit

wr

R2

Router ospf 10

Area 10 range 10.1.0.0 255.255.0.0

exit

wr

R3

Router ospf 10

Area 10 range 10.2.0.0 255.255.0.0

Exit

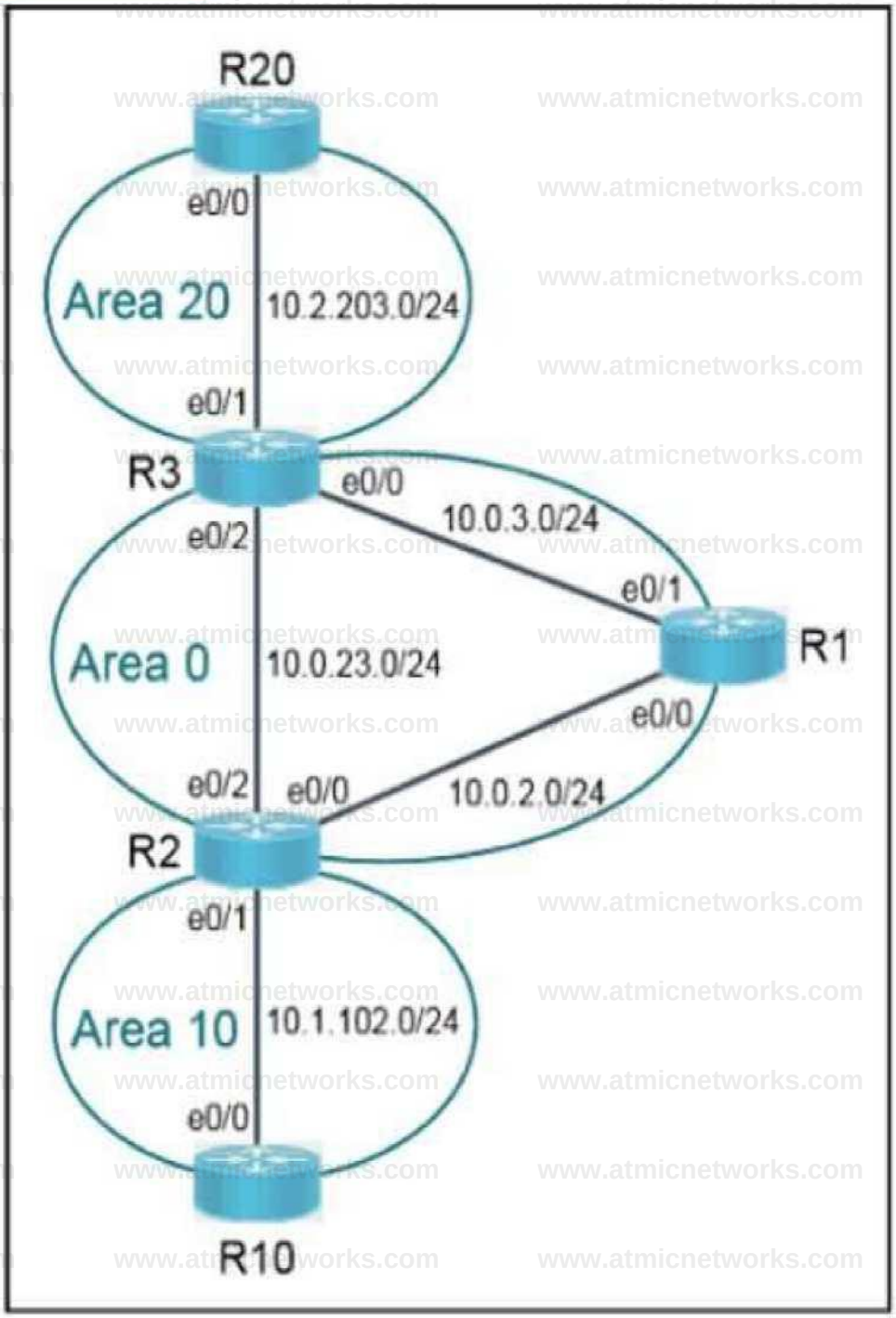
Wr

OR

Question: 356

SIMULATION

Guidelines | Topology | Tasks



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OSPF is partially configured. Complete the OSPF configurations on the ABR routers to achieve these goals:

1. The route for R1 Loopback 0 should not be advertised into Area 10. Use the partially configured prefix list to accomplish the task. Do not use the area 0 command under the router ospf configuration section to accomplish the task.
2. The route for R20 loopback 0 should not be advertised out of area 20. Use the partially configured prefix list to accomplish this task. Do not use the area 0 command under the router ospf configuration section to accomplish this task.

```
R2 conO i
```

Answer: See the solution below in

Explanation:

Solution:

R2

```
P?hh run I B route|nrpf
router ospf 10
  router-Id 111,0.1.2
  drea 10 lillei liuL ptellk st;y_R; Lc-0 in
  network HJ*G.].O UJ..0.25L area I '
  natwopi -i,0-2-0 0,0.0.2:35 ir^a 0
  network 10.0.23.0 0.3^1255 area 0
  network 1U,J.1U2.J i:.0.0.255 area I1
ip prefix List .ieny lil_LcO peq 1 deny 1U . 0.1.. 1/J2
ip prefix-list deny nij.oD neg 2 permit o.n.o>o/d ia 22
R2»
R2J
```

R2Jwr
Building; cDnfignrstidn.. -

R3

```
R34 sb run I 3 route I pref

router ospf 10
 renter-id 10.0.1,3

 area 20 filter lint prefix deny_R20_La0 out

 network 10.0.1.0 0,0.0,255 area u
 network 10,0.3,0 O^.ObQ. 255 am 0 network 10,0.23.0 0.0.0.255 area 0
. network 10.2.203.0 0.0.0.256 area 20

ip prefix-lint der.y_R20_LaG neq I deny 10.2.1.1/22
ip prefix-list deny R2Q LoO seq 2 permit 0.0.0.0/0 Le 32
;R3(
R31
R3i
Kit
J§f
iS3<
ijt3>wr
I Building configuration.,.
```

Question: 357

SIMULATION

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Comment

Guidelines Topology Tasks

OSPF is partially configured. Complete the OSPF configurations to achieve these goals:

1. Configure R3 to always be the DR in Area 20. Do not change the router ID.
2. Configure R2 and R10 so they do not participate in a DR/BDR election process in Area 10.

R2 R3 R1 R10 R20

```
R10>en
R10#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R10(config)#interface et0/0
R10(config-if)#ip ospf priority
```

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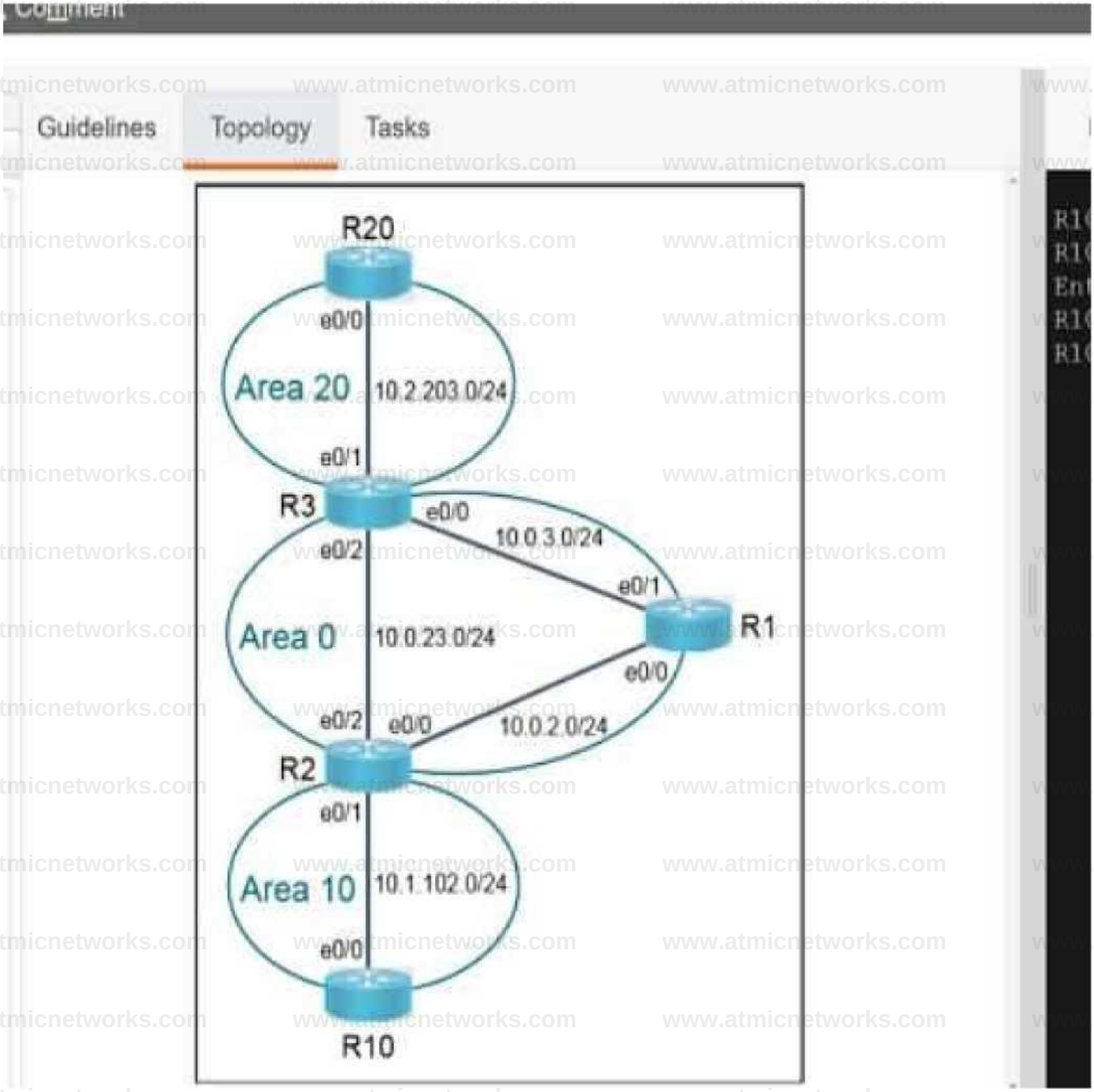

Answer: See the solution below in

Explanation:

Solution:

R3

Int e0/1

Ip ospf priority 255

End

Copy run start

R2

Int e0/1

Ip ospf network point-to-point

End

Copy run start

R10

Int e0/0

Ip ospf network point-to-point

End

Copy run start

Question: 358

SIMULATION

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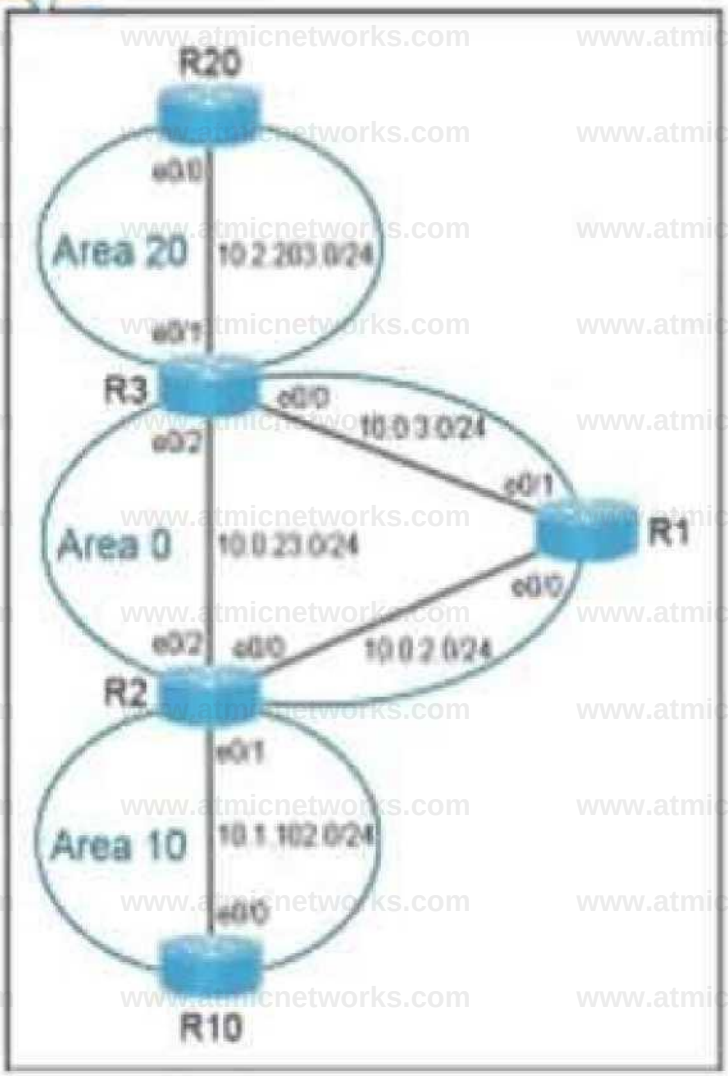
Guidelines Topology Tasks



Answer: See the

Explanation:

Solution:

R3

Config#int et0/1

config-if#ip ospf priority 255

wr

R20

clear ip ospf process

yes

R10

int et0/0

ip ospf priority 0

wr

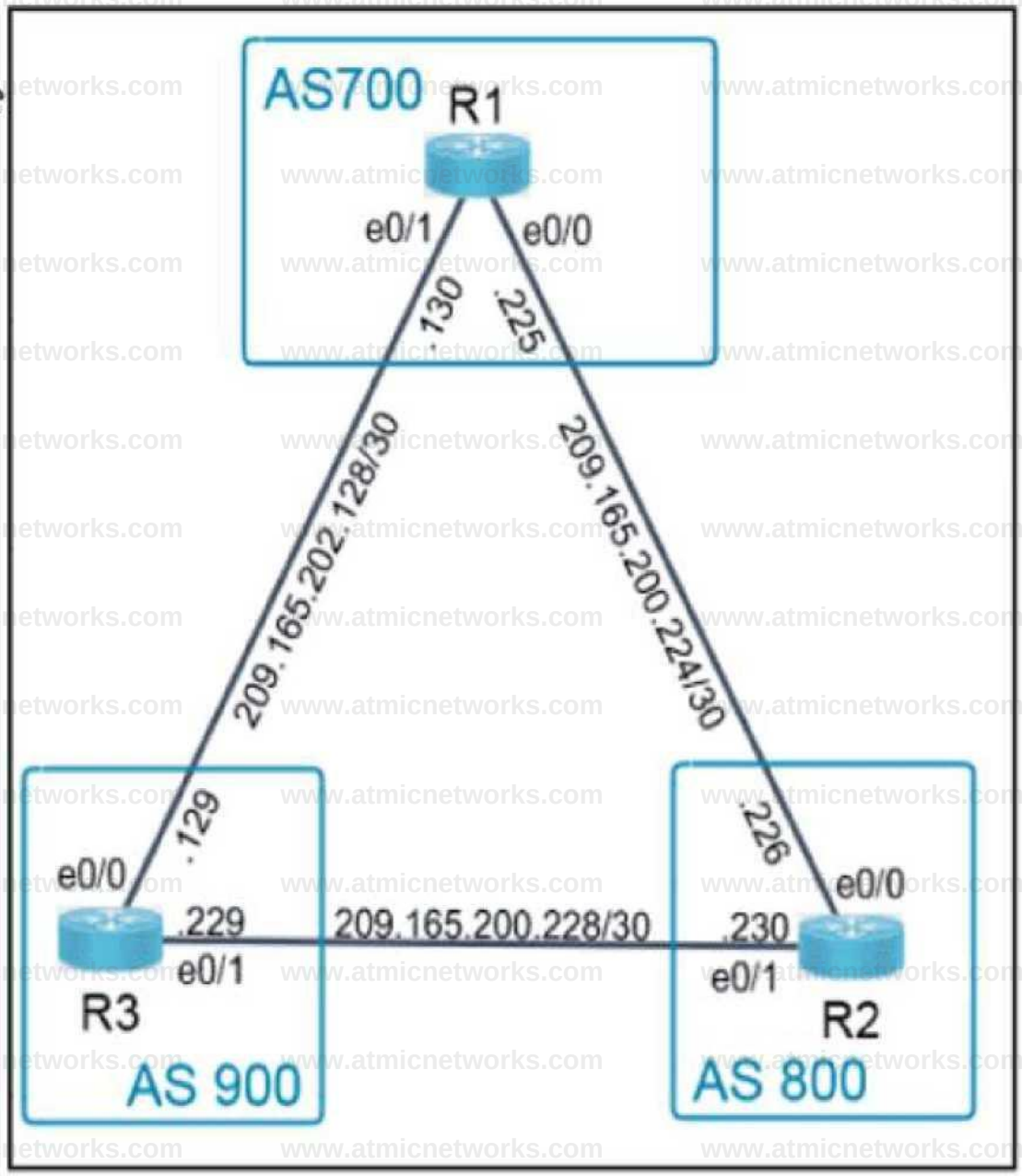
R2

clear ip ospf process

yes

Question: 359

SIMULATION



Guidelines Topology Tasks

Configure R3 according to the topology to achieve these results:

1. Configure eBGP using Loopback 0 for the router-id. Do not use the address-family command to accomplish this.
2. Advertise R3's Loopback 100 and Loopback 200 networks to AS800 and AS900.

Answer: See the solution below in

Explanation:

Solution:

```
R3#sh run | s bgp
router bgp 900
 bgp router-id 10.3.3.3
 bgp log-neighbor-changes
 network 209.165.201.4 mask 255.255.255.255
 network 209.165.201.5 mask 255.255.255.255
 neighbor 209.165.200.230 remote-as 800 neighbor
 209.165.202.130 remote-as 700
R3i|
```

Copy run start

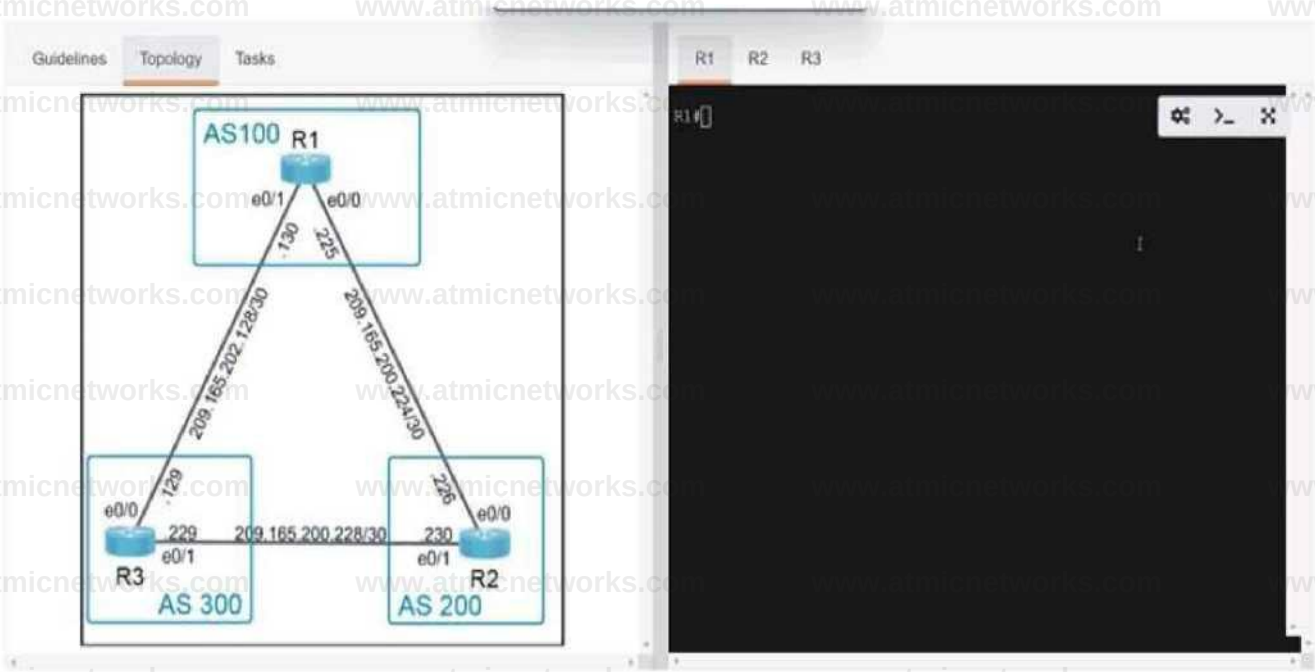
Verification:

```
R3#sh ip bgp su
BGP router identifier 10.3.3.3, local AS number 900
BGP table version is 3, main routing table version 3
0  network entries using 288 bytes of memory
0  path entries using 168 bytes of memory
1/1 BGP path/bestpath attribute entries using 160 bytes of memory
0  BGP route-map cache entries using 0 bytes of memory
0  BGP filter-list cache entries using 0 bytes of memory
BGP using 616 total bytes of memory
BGP activity 2/0 prefixes, 2/0 paths, scan interval 60 secs
```

```
Neighbor        V           AS MsgRcvd MsgSent   TblVer  InQ OutQ U
p/Down State/PfxRcd
209.165.200.230 4          800      10      10        3    0    0 0
0:03:00         0
209.165.202.130 4          700       8       8        3    0    0 0
0:03:18         0
```

OR

Question: 360
SIMULATION



Configure RI according to the topology to achieve these results:

1. Configure eBGP using Loopback 0 for the router-id. Do not use the address-family command to accomplish this.
2. Advertise R1's Loopback 100 and Loopback 200 networks to AS200 and AS300.

Answer: See the solution below in

Explanation:

Solution:

Solution on R1:

```
Rlish run I s bgp
router bgp 100
 bgp router-id 10.1.1.1
 bgp log-neighbor-changes

network 209.165.201.1 mask 255.255.255.255 network
209.165.201.2 mask 255.255.255.255 neighbor
209.165.200.226 remote-as 200 neighbor
209.165.202.129 remote as 300
```

R1# copy run start

Verification:

```
Rllsh ip bgp su
BGP router identifier 10.1.1.1, local AS number 100
BGP table version is 3, main routing table version 3
0  network entries using 288 bytes of memory
0  ^th entries using 168 bytes of memory
1/1 BGP path/bestpath attribute entries using 160 bytes of memory
0  BGP route-map cache entries using 0 bytes of memory
0  BGP filter-list cache entries using 0 bytes of memory
BGP using 616 total bytes of memory
BGP activity 2/0 prefixes, 2/0 paths, scan interval 60 secs
```

```
Neighbor          V
Up/Down State/PfxRcd
209.165.200.226 4 00:00:51  0
209.165.202.129 4 00:01:23  0
R1J
```

AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ
200	8	6	3	0	0
300	6	6	3	0	0

OR

Question: 361

SIMULATION

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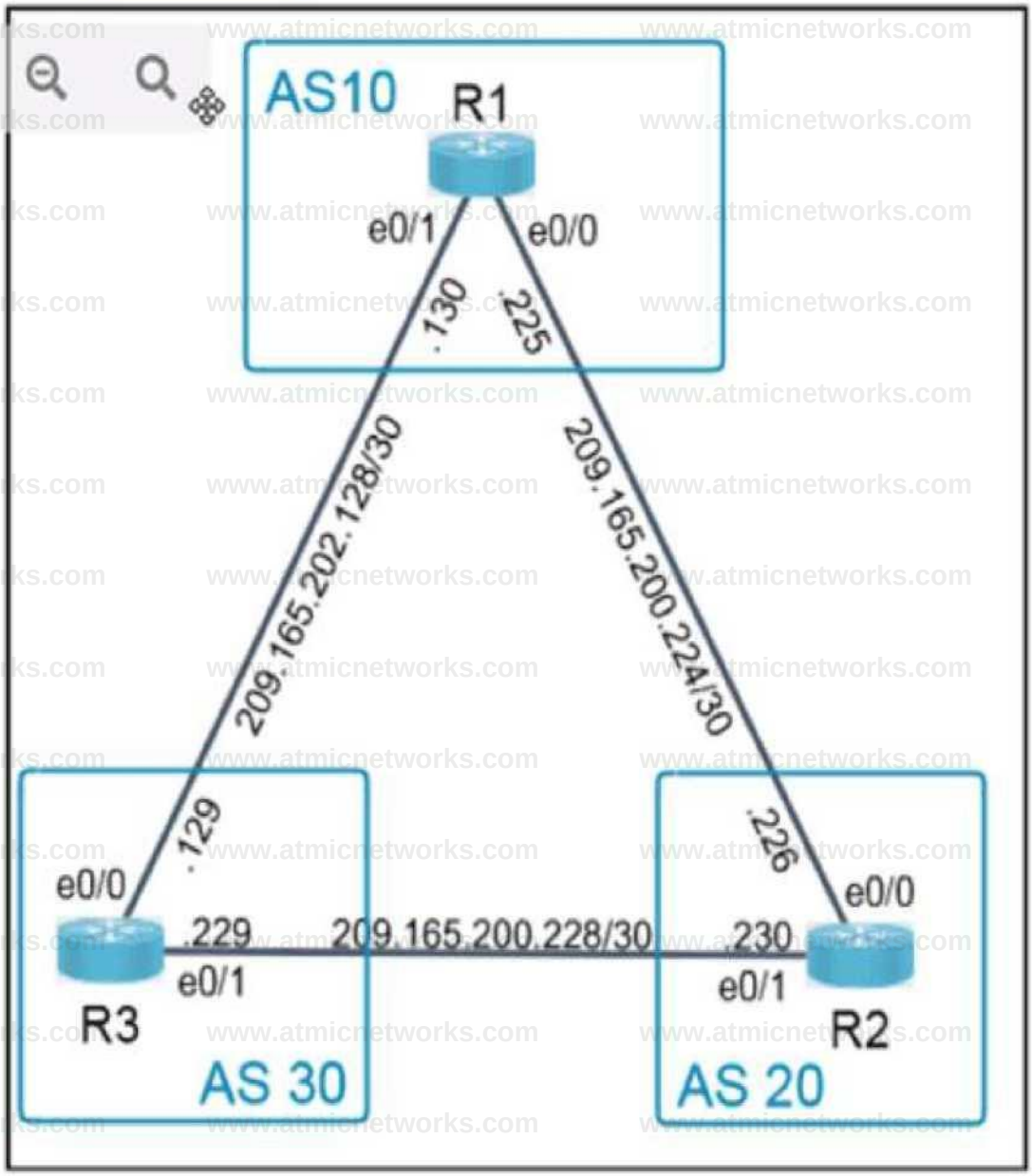
Guidelines Topology Tasks



Guidelines Topology Tasks

Configure R1 according to the topology to achieve these results:

1. Configure eBGP using Loopback 0 for the router-id. Do not use the address-family command to accomplish this.
2. Advertise R1's Loopback 100 and Loopback 200 networks to

AS20 and AS30.

Answer: See the solution below in

Explanation:

Solution:

```
RHsh run I s bgp
router bgp 10
 bgp router-id 10.10.10.1
 bgp log-neighbor-changes
 network 209.165.201.1 mask 255.255.255.255 network
 209.165.201.2 mask 255.255.255.255 neighbor
 209.165.200.226 remote as 20 neighbor 209.165.202.129
 remote-as 30
```

Copy run start

Verification:

```
RIlsh ip bgp su
BGP router identifier 10.10.10.1, local AS number 10
BGP table version is 3, main routing table version 3
2 network entries using 288 bytes of memory
2 path entries using 168 bytes of memory
1/1 BGP path/bestpath attribute entries using 160 bytes of memory
0 BGP route-map cache entries using 0 bytes of memory
0 BGP filter-list cache entries using 0 bytes of memory
BGP using 616 total bytes of memory
BGP activity 2/0 prefixes, 2/0 paths, scan interval 60 secs
```

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Neighbor	V	AS	MsgRcvd	MsgSent	TblVer	InQ	OutQ	Up/Down	State/PfxRcd
209.165.200.226	4	20	9	8	3	0	0	00:01:31	0
209.165.202.129	4	30	6	6	3	0	0	00:01:44	0

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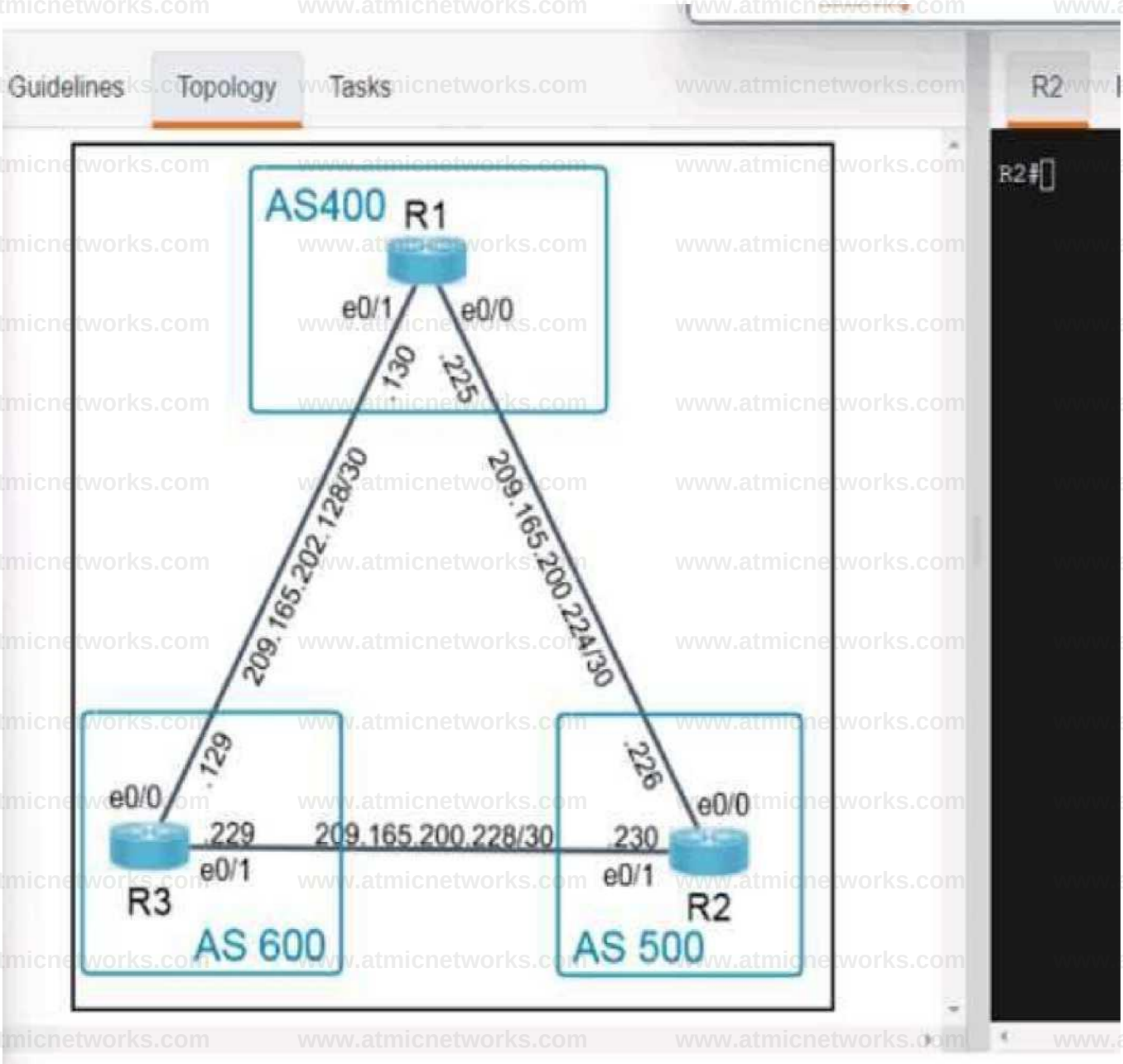
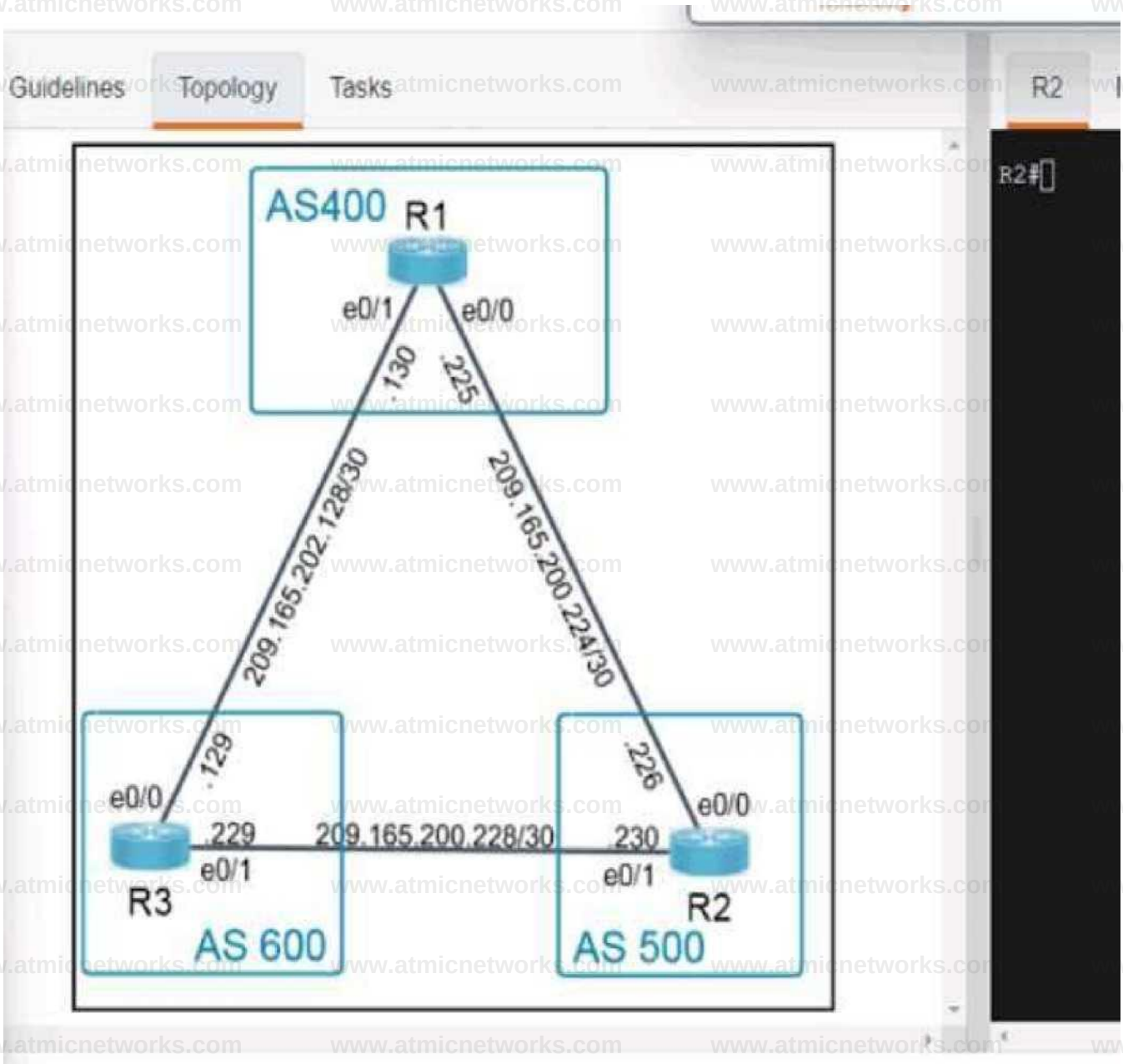


OR

Question:
362
SIMULATION



Configure R2 according to the topology to achieve these results:

1. Configure eBGP using Loopback 0 for the router-id. Do not use the address-family command to accomplish this.
2. Advertise R2's Loopback 100 and Loopback 200 networks to AS400 and AS600.

Answer: See the solution below in

Explanation:

Solution:-

```
duplex auto
I
router bgp 509
bgp router-id 10.2,2,2
bgp log-neighbor-changes
network 209.165.2 01.9 wk 255-255.255.255
network 209.165.201.10 mask 2SS.2S5.2SS.255 neighbor 209.165.200.225 remote-as 400 neighbor 209.165.200.229 remote-as 600
```

```
ip forward-protocol nd
```

Copy run start

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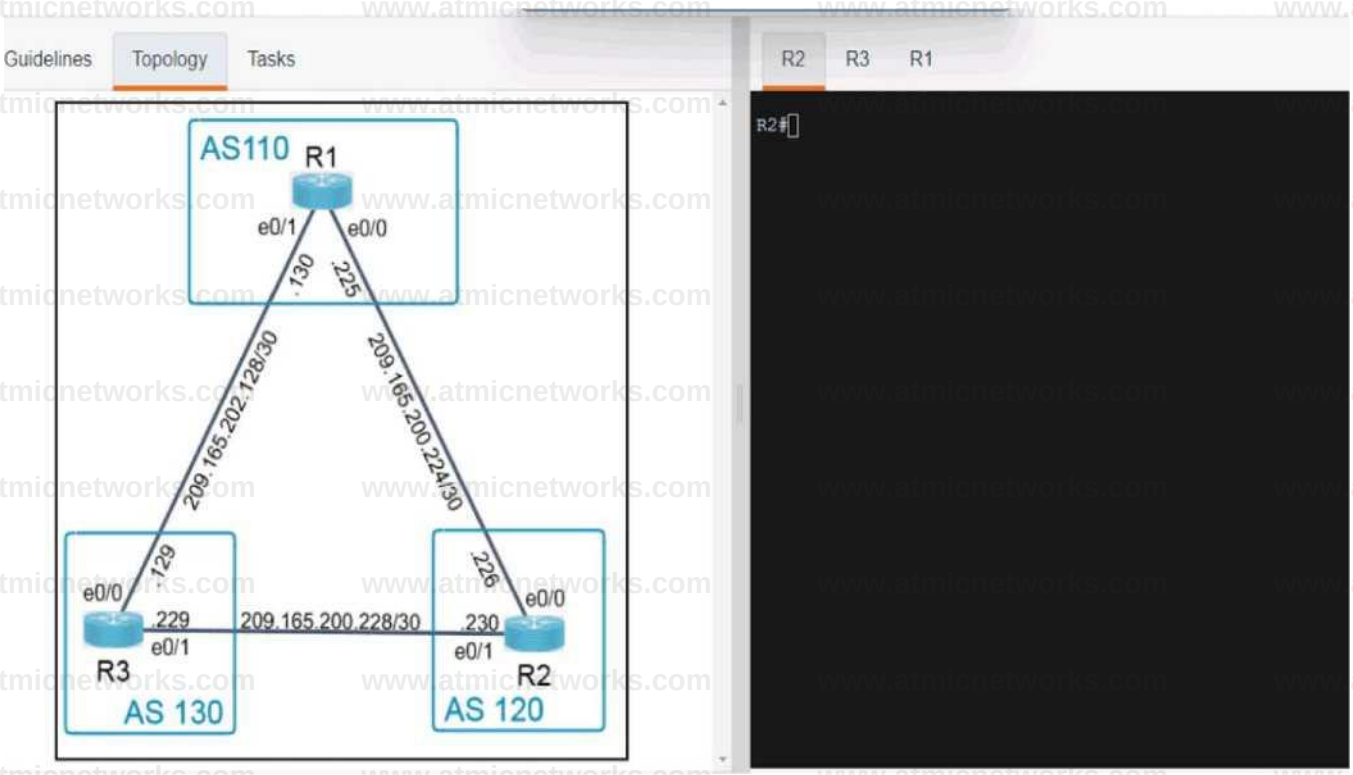
Question: 363

SIMULATION



Configure R3 according to the topology to achieve these results:

1. Configure eBGP using Loopback 0 for the router-id. Do not use the address-family command to accomplish this.
2. Advertise R3's Loopback 100 and Loopback 200 networks to ASHOand AS120.

Answer: See the solution below in

Explanation:

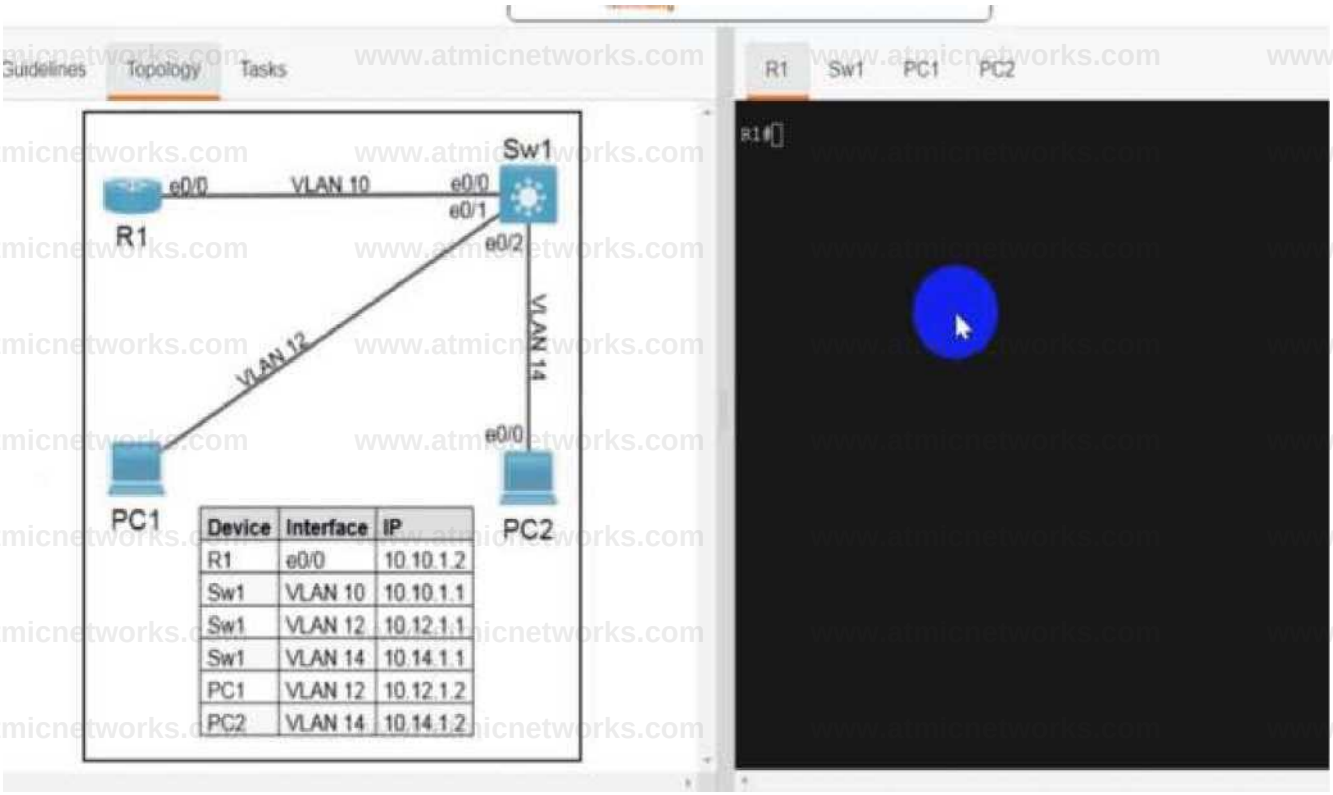
Solution: -

```
noipaa^B5£
duplex auto !
router bgp $00
bgp router-id 10.2.2.2
bgp log-neighbor-changes
network 209.165.201.9 mask 255.255.255.255
network 209,165,201.10 wk 255.255,255,255
neighbor 209.165.200.225 remoteas 400
neighbor 209.165.200.229 renotu-ds 600

ip forward-protocol nd
```

Question: 364

SIMULATION



Device	Interface	IP
R1	e0/0	10.10.1.2
Sw1	VLAN 10	10.10.1.1
Sw1	VLAN 12	10.12.1.1
Sw1	VLAN 14	10.14.1.1
PC1	VLAN 12	10.12.1.2
PC2	VLAN 14	10.14.1.2

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Gudehnes Topongy Tasks

Ri Swi PCI PCZ

Ifl

The Operations team started configuring several monitoring activities

Complete the configurations for the tasks below

1. Complete the Flexible NetFiow Flow Exporter configuration on R1 to send data to the collector using UDP port 2055
2. Configure the switch port analyzer on Sw1 and mirror all communication to and from PCI to interface EVI using session number 11
3. Schedule the pre-configured IP SLA operation on R11o start running immediately and Io run indefinitely.

Answer: See the solution below in

Explanation:

Solution:

R1

config

flow exporter Export-NetFlowENCOR

transport udp 2055

ip sla schedule 100 life forever start-time now

wr

Sw1

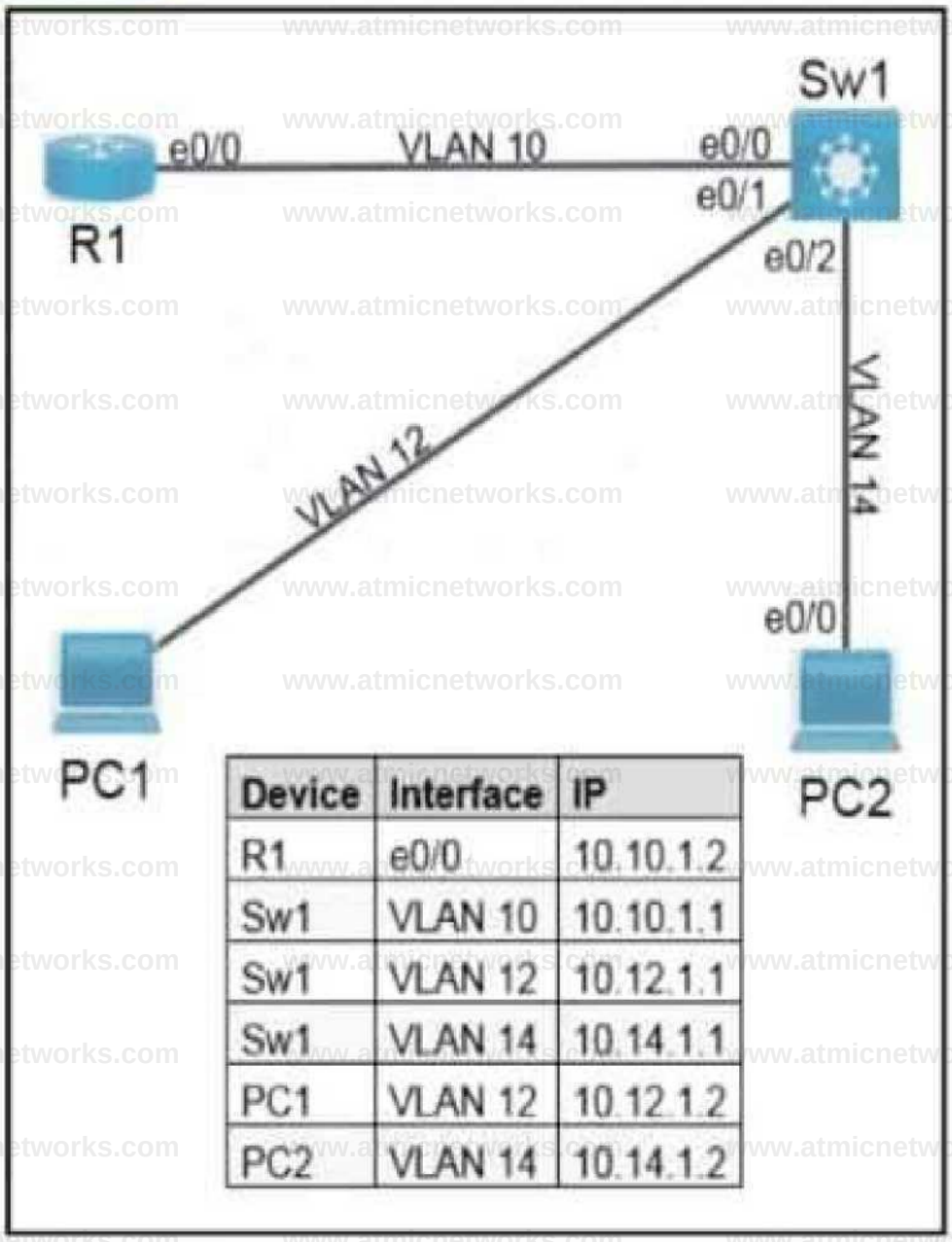
monitor session 11 source interface e0/2

monitor session 11 destination interface et1/1

wr

OR

Question:
365
SIMULATION



Device	Interface	IP
R1	e0/0	10.10.1.2
Sw1	VLAN 10	10.10.1.1
Sw1	VLAN 12	10.12.1.1
Sw1	VLAN 14	10.14.1.1
PC1	VLAN 12	10.12.1.2
PC2	VLAN 14	10.14.1.2

The Operations team started configuring several monitoring activities. Complete the configurations for the tasks below.

1 Complete the Flexible NetFlow Flow Exporter configuration on RI to send data to the collector located at 10.10.1.110.

2 . Configure a basic IP SLA HTTP GET operation on R1 to monitor the server al 10.10.1.100 every 300 seconds.

3 Configure the switch port analyzer on Sw1 using these settings:

Session number 7

Mirror all traffic on E0/0

□ Direct the output to interface E1/1

Answer: See the solution below in

Explanation:

Solution:

R1

Config t

Flow exporter Export-NetFlowENCOR

destination 10.10.1.110

transport udp 2055

exit

flow moni Monitor-NetFlowENCOR

exit

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ip sla 1

http gethttp://10.10.1.100

frequ 300

exit

ip sla schedule 1 life forever start-time now

wr

SW1

Config t

Monitor session 7 source interface e0/0

Monitor session 7 destination interface e1/1

End

Wr

Question: 366

SIMULATION

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Guidelines Topology Tasks

The Operations team started configuring several monitoring activities.

Complete the configurations for the tasks below.

1. Complete the Flexible NetFlow Flow Exporter configuration on R1 to send data to the collector located at 10.10.1.10.
2. Configure the switch port analyzer on Sw1 and mirror all communication to and from PC1 and PC2 to interface E1/0 using session number 2.
3. Configure a basic IP SLA HTTP GET operation on R1 to monitor the server at 10.10.1.100 every 600 seconds.

Answer: See the solution below in

Explanation:

Solution:

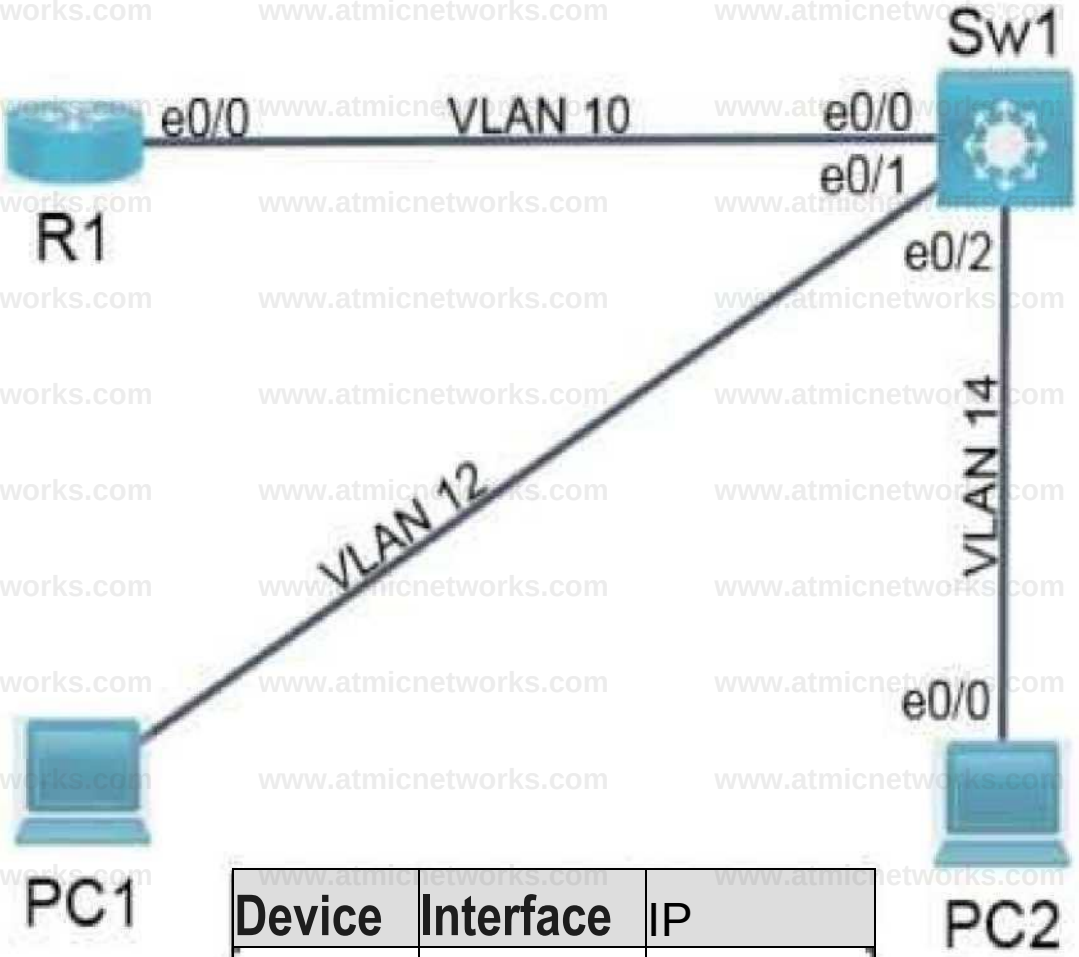
R1

```
config t
flow record NetFlow-Record
match ipv4 source address
match ipv4 destination address
collect country bytes
```

```
flow exporter NetFlow-Exporter
destination 10.10.1.10
transport udp 9996

flow monitor NetFlow-Monitor
record NetFlow-Record
exporter NetFlow-Exporter
exit

int et0/0
ip flow monitor NetFlow-Monitor input

ip sla 1
http get http://10.10.1.100
frequency 600
exit

ip sla schedule 1 start-time now

wr

Sw1
config t
monitor session 2 source int e0/0
monitor session 2 source int et0/2
monitor session 2 destination interface e1/0
```

wr

Question: 367
SIMULATION



Device	Interface	IP
R1	eO/O	10.10 1.2
Sw1	VLAN 10	10.10.1.1
Sw1	VLAN 12	10 12 1 1
Sw1	VLAN 14	10 14 1 1
PC1	VLAN 12	10 12 1 2
PC2	VLAN 14	10 14 12

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Guidelines Topology Tasks

The Operations team started configuring several monitoring activities. Complete the configurations for the tasks below.

1. Enable Flexible NetFlow on R1 E0/0 in both directions using the pre-configured flow monitor.
2. Configure the switch port analyzer on Sw1 and mirror all VLAN 12 traffic to interface E1/3 using session number 12.
3. Configure a basic IP SLA ICMP echo operation on R1 to ping PC1 every 300 seconds.

Answer: See the solution below in

Explanation:

Solution:

R1

Config t

Int et0/0

Ip flow monitor Monitor-R1Flow input

Ip flow monitor Monitor-R1Flow output

Exit

Ip sla 1

Icmp-echo 10.12.1.2

Freq 300

Ip sla schedule 1 life foreve start-time now

Sw1

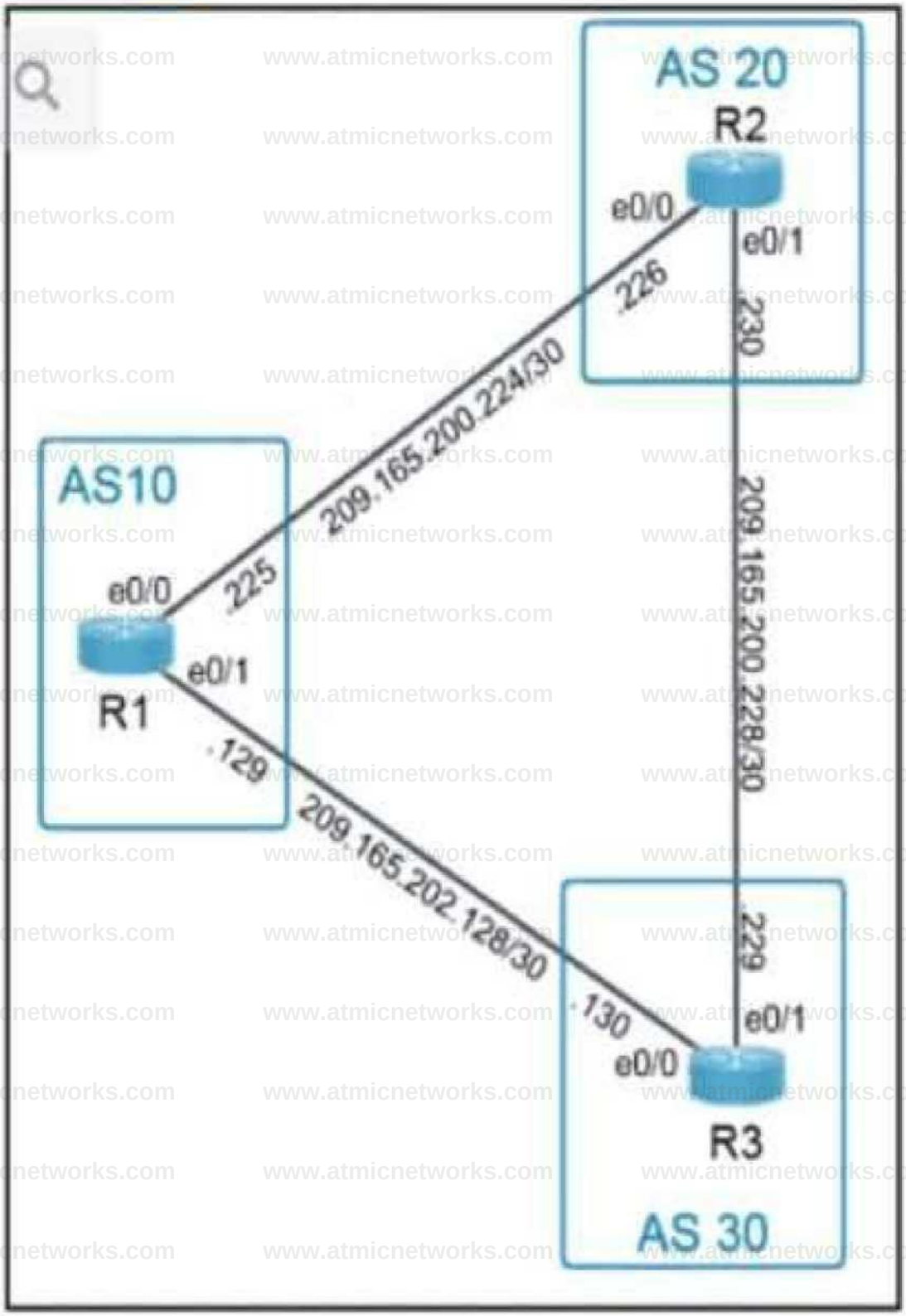
Config t

Monitor session 12 source vlan 12

Monitor session 12 destination interface et1/3

Question: 368

SIMULATION



eBGP is configured on R2 and R3. Configure R1 to complete these tasks.

1. Using the *address-family* command, configure eBGP according to

the topology. Use Loopback 0 for the router-id.

2. Advertise R1's Loopback 0.10. and 20 networks to AS 20 and AS 30.

Answer: See the solution below in

Explanation:

Solution:

```
router bgp 10

bgp router-id 10.1.1.111

no bgp defa ipv4-unicast

nei 209.165.200.226 remote-as 20
nei 209.165.202.130 remote-as 30

address-family ipv4

neigh 209.165.200.226 activate
neigh 209.165.202.130 activate
network 10.1.1.10 mask 255.255.255.255

network 209.165.201.10 mask 255.255.255.255
```

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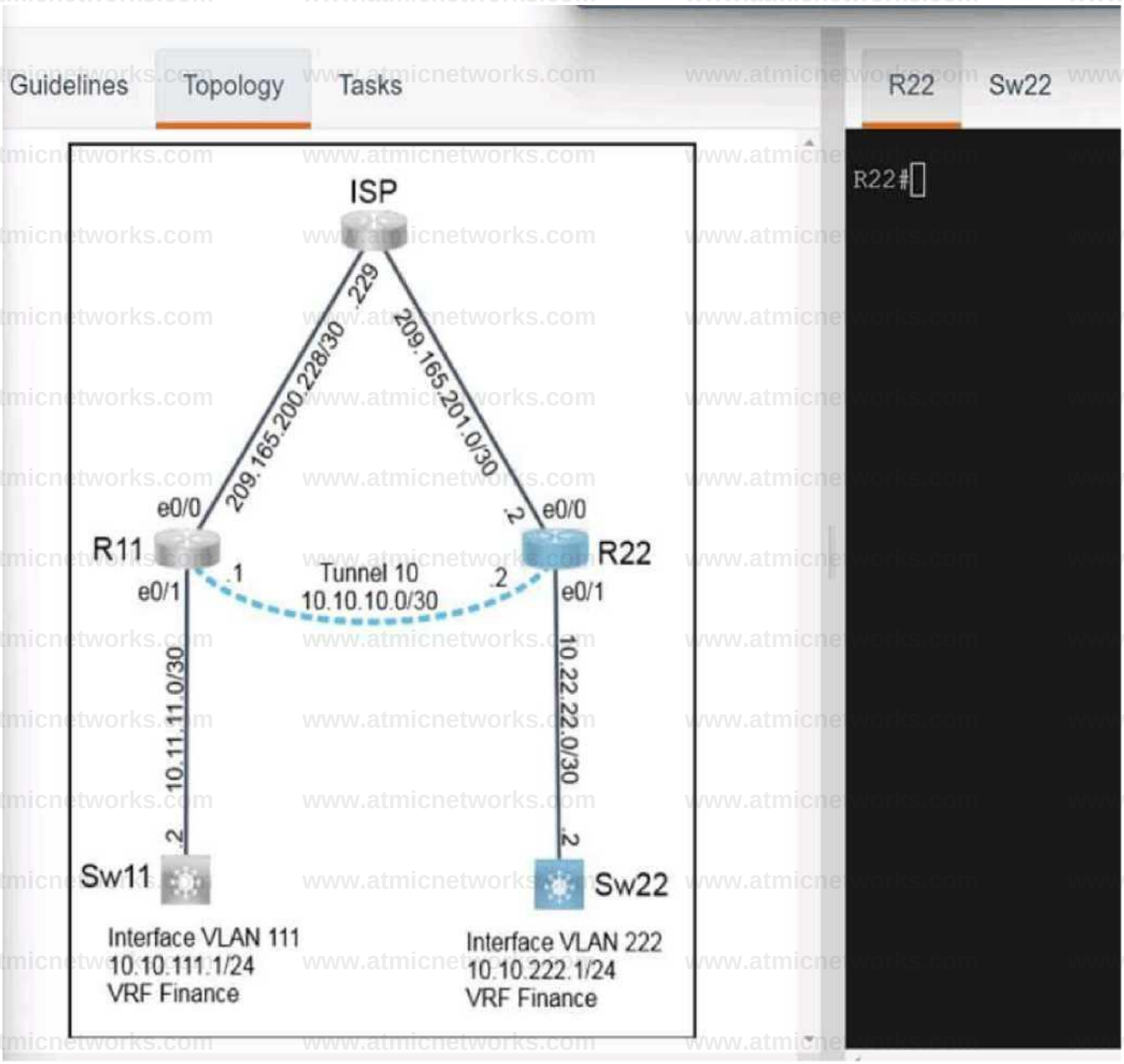
network 209.165.201.20 mask 255.255.255.255

wr

Question: 369

SIMULATION



Guidelines Topology Tasks

A colleague started configuring a new network. All configurations on R11 are complete and communication between R11 and R22 is functional. Complete the configurations on R22 for the tasks below.

Task 1

Extend the Finance VRF between R11 and R22 using Tunnel 10.

Task 2

Complete the Finance VRF configuration on R22 and configure static routing so that traffic between VLAN 111 and VLAN 222 uses Tunnel 10 exclusively.

Note: Sw22 can be used to validate traffic flow.

Answer: See the solution below in

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Explanation:

Solution:

R22

int tun0

vrf forwarding FINANCE

ip add 10.10.10.2 255.255.255.0

tunn source e0/0

tunnel dest 209.165.200.230

no shut

ip route vrf FINANCE 10.10.111.0 255.255.255.0 tunn0

int et0/1

vrf forwarding FINANCE

ip address 10.22.22.1 255.255.255.252

wr

Verification:-

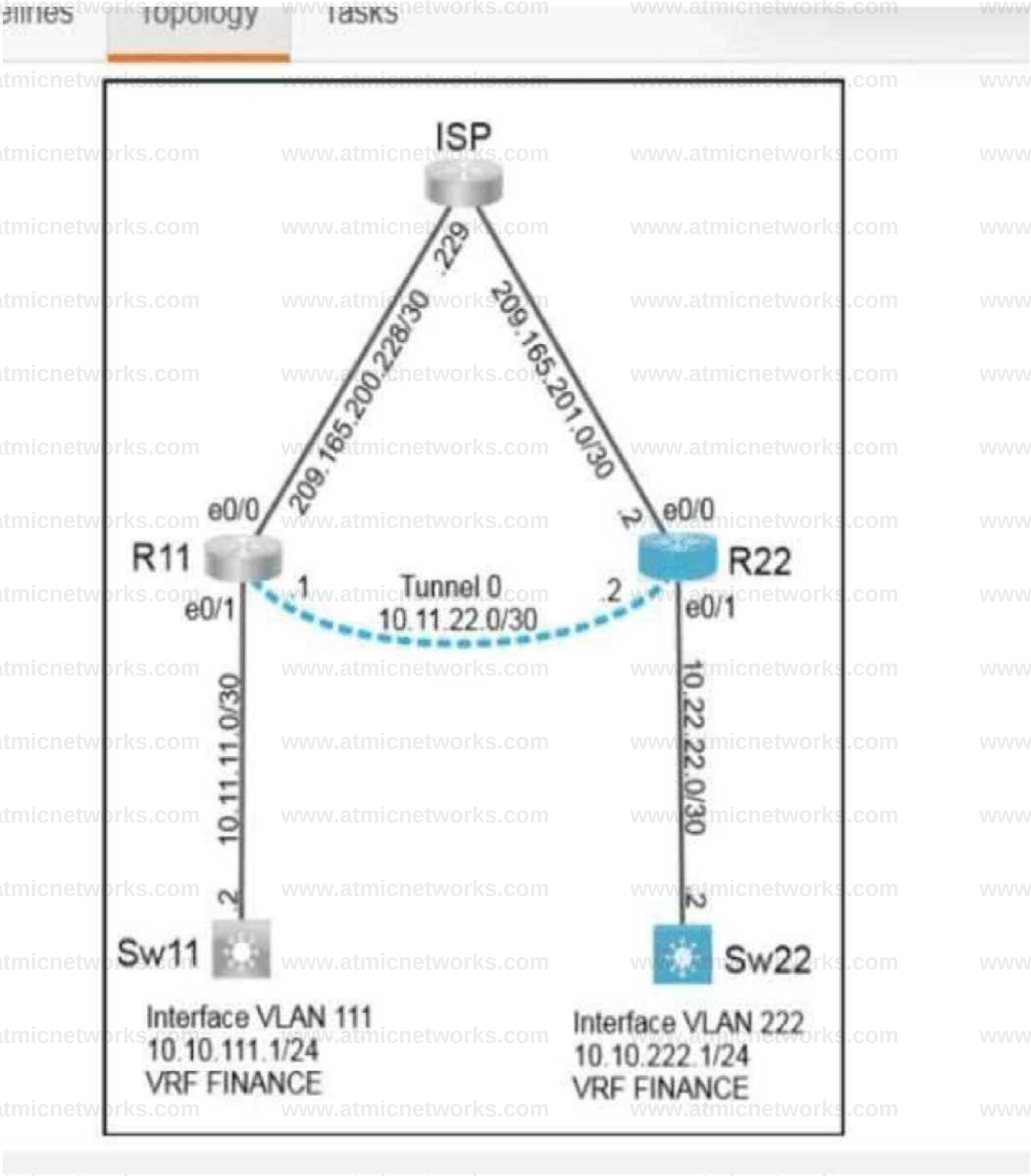
```
R22#
R22#ping 209.165.200.230
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 209.165.200.230, timeout i
s 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max =
1/1/1 ms
R22#
```

```
R22#
R22#ping vrf Finance 10.10.111.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.10.111.1, timeout is 2
seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max =
1/1/1 ms
R22#
R22#
```

Question:

370

SIMULATION



Guidelines Topology Tasks

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Task 1

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Task 2

Complete the Finance VRF configuration on R22 and configure static routing so that traffic between VLAN 111 and VLAN 222 uses Tunnel 10 exclusively.

Note: Sw22 can be used to validate traffic flow.

Answer: See the solution below in

Explanation:

Solution:

R22

config t

int tunn0

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vrf forwarding FINANCE

ip add 10.11.22.2 255.255.255.0

tunn so e0/0

tunn dest 209.165.200.230

no shut

int et0/1

vrf forward FINANCE

ip add 10.22.22.1 255.255.255.252

no shut

ip route vrf FINANCE 10.10.111.0 255.255.255.0 tunn0

wr

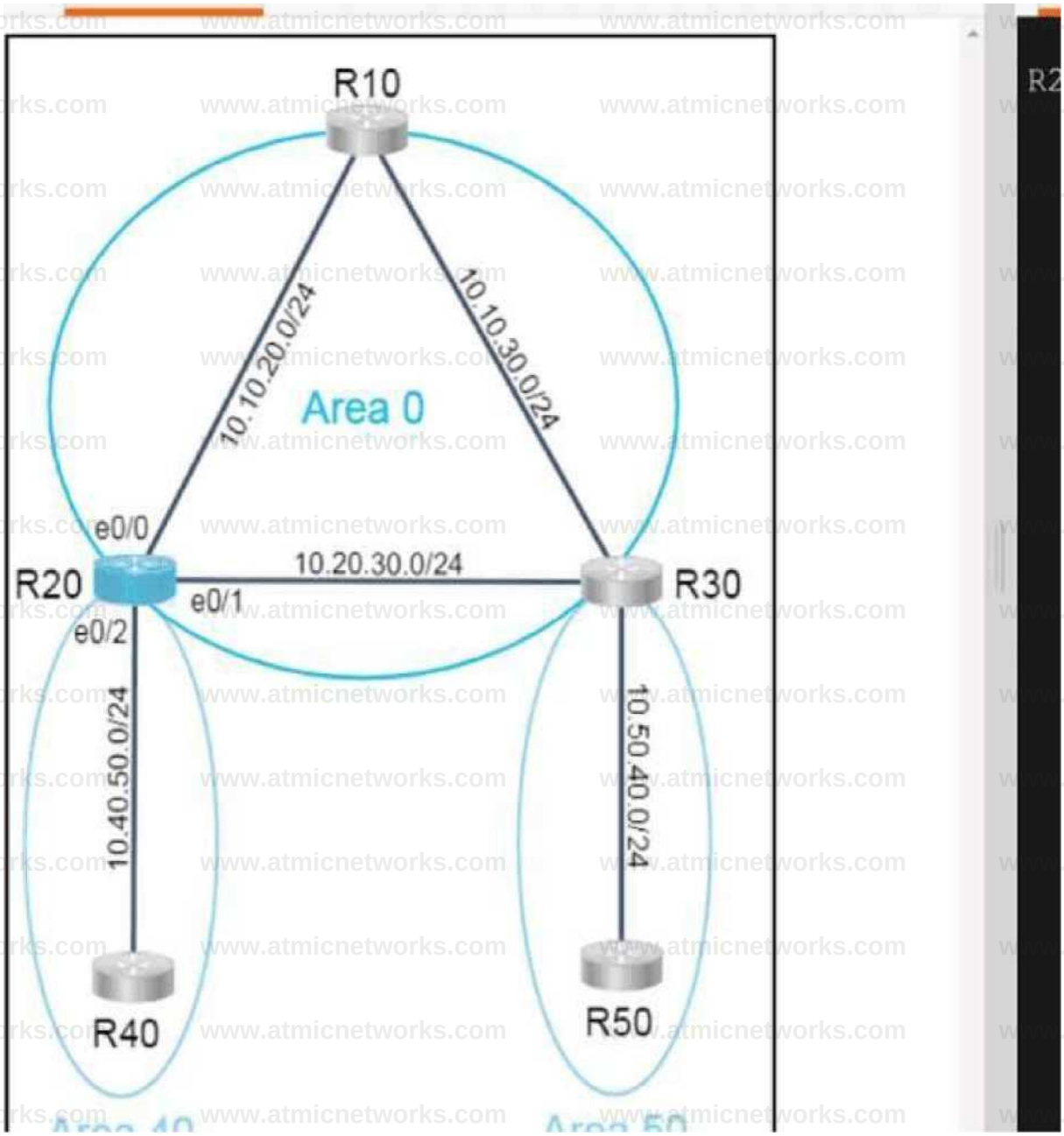
```
onsole
R22#pxng vrf FINANCE 10.10.111.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.10.111.1, timeout is 2 seconds

!UI!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/1 n s
```

Question: 371

SIMULATION

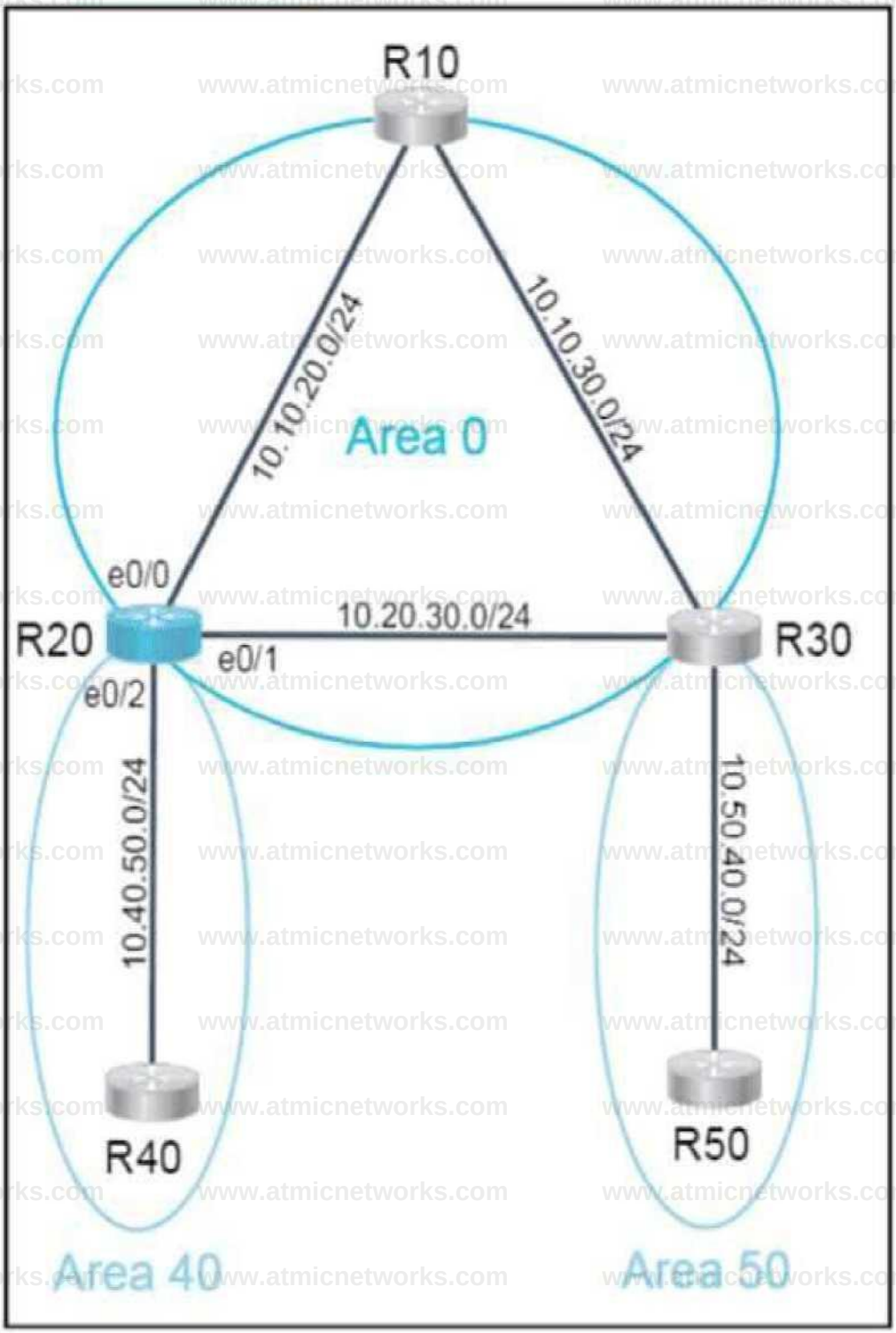
Guidelines Topology Tasks



nment

Recordi

uidelines | Topology | Tasks



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Comment

Recording

Guidelines Topology Tasks

OSPF is preconfigured on all devices except R20.
Configure R20 to complete these tasks.

Task 1:

Configure OSPF according to the topology using these requirements:

- Use Process ID 20.
- Use Loopback0 for the Router ID.
- Advertise all networks into OSPF.
  - Do not use **network** statements under the OSPF process to accomplish this task.

Task 2:

Configure a /18 summary route for Area 40.

- Advertise only Type 3 LSAs into Area 0.

Answer: See the solution below in

Explanation:

Solution:

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R30

Config t

router ospf 100

router-id 10.0.1.30

int ran lo0 , e0/0-1

ip ospf 100 a 0

exit

int et0/2

ip ospf 100 a 50

exit

router ospf 30

area 50 range 10.10.0.0 255.255.192.0

area 50 range 10.50.0.0 255.255.192.0

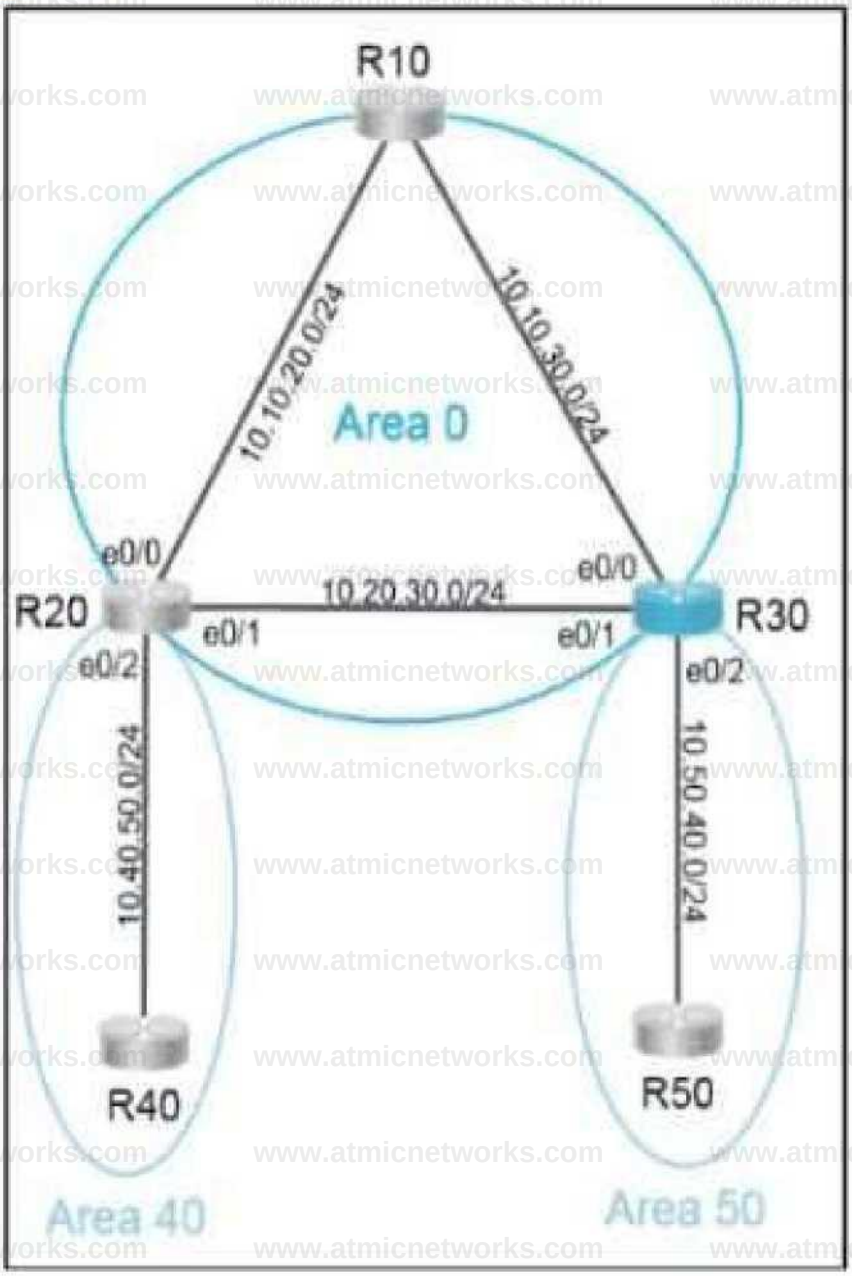
end

wr

Question: 372

SIMULATION

Topology Tasks



Guidelines Topology Tasks

OSPF is preconfigured on all devices except R30 Configure R30 to complete these tasks.

Task 1:

Configure OSPF according to the topology using these requirements:

- Use Process ID 100.
- Use LoopbackO for the Router ID.
- Advertise all networks into OSPF

  Use network statements under the OSPF process to accomplish this task.

Task 2:

Configure a /18 summary route for Area 50.

Answer: See the solution below in

Explanation:

Solution:

R30

Config t

router ospf 100

router-id 10.0.1.30

int ran lo0 , e0/0-1

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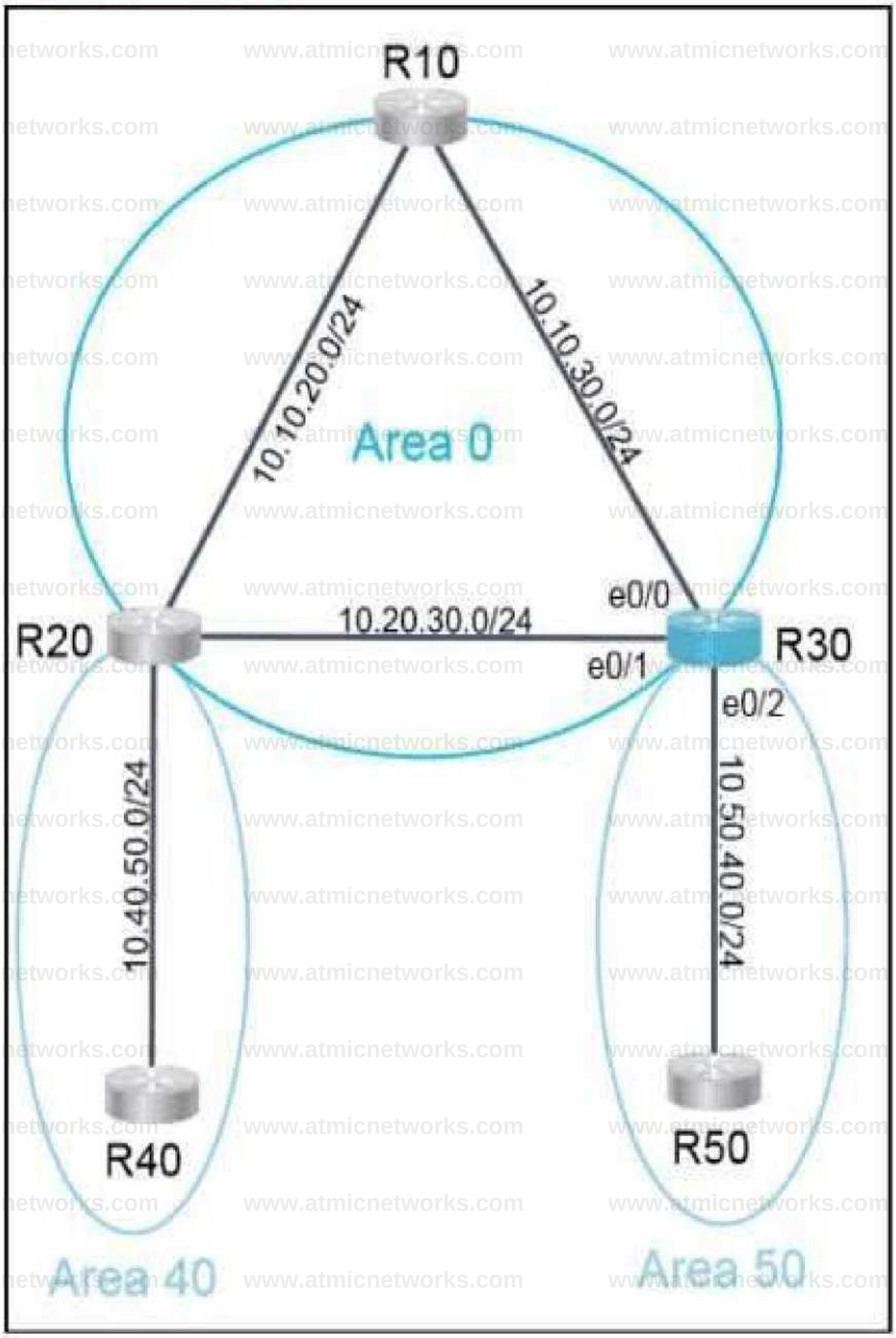
```
ip ospf 100 a 0
exit

int et0/2
ip ospf 100 a 50
exit

router ospf 30
area 50 range 10.10.0.0 255.255.192.0
area 50 range 10.50.0.0 255.255.192.0

end

wr
```

Question: 373

SIMULATION



OSPF is preconfigured on all devices except R30.

Configure R30 to complete these tasks.

Task 1:

Configure OSPF according to the topology using these requirements:

- Use Process ID 10.
- Use LoopbackO for the Router ID.
- Advertise all networks into OSPF.
    - Do not use **network** statements under the OSPF process to accomplish this task.

Task 2:

Configure a /17 summary route for Area 50.

Answer: See the solution below in

Explanation:

Solution:

R30

Config t

router ospf 10

router-id 10.0.1.30

int ran lo0 , e0/0-1

ip ospf 10 a 0

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exit

int et0/2

ip ospf 10 a 50

exit

router ospf 10

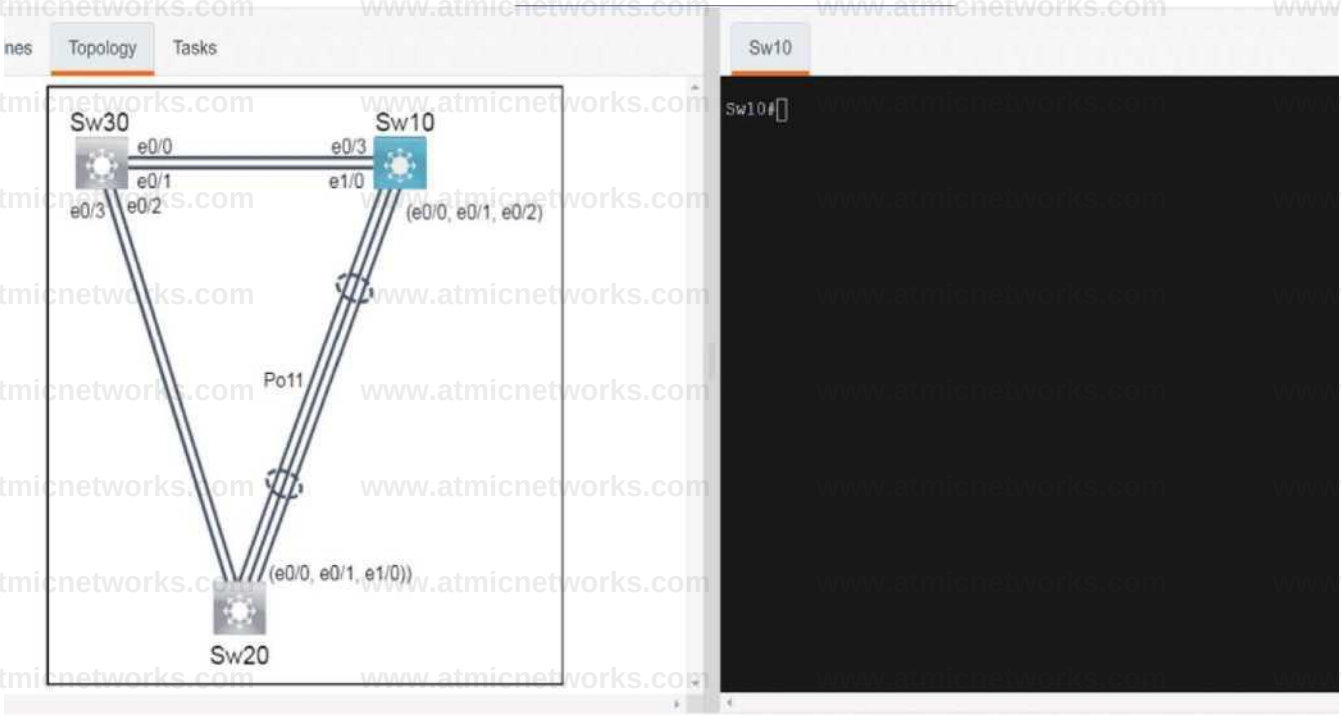
area 50 range 10.10.0.0 255.255.128.0

area 50 range 10.50.0.0 255.255.128.0

end

Question: 374

SIMULATION



Guidelines Topology Tasks

(

Complete the tasks below by making changes to Sw10 only. No access is provided to Sw20 or Sw30.

Task 1

Sw20 is actively attempting to negotiate an 802.1 trunking EtherChannel with Sw10 using LACP, but the channel is not functional. Resolve the issues on Sw10.

Task 2

Modify the spanning tree configuration to ensure that Sw10 is always the root for VLAN 10 and VLAN 30.

Answer: See the

Explanation:

Solution:-

Default int range et0/0-1

Int range e0/0 – 1

Sw trunk encap dot1

Switch mode trunk

Channel-group 2 mode passive

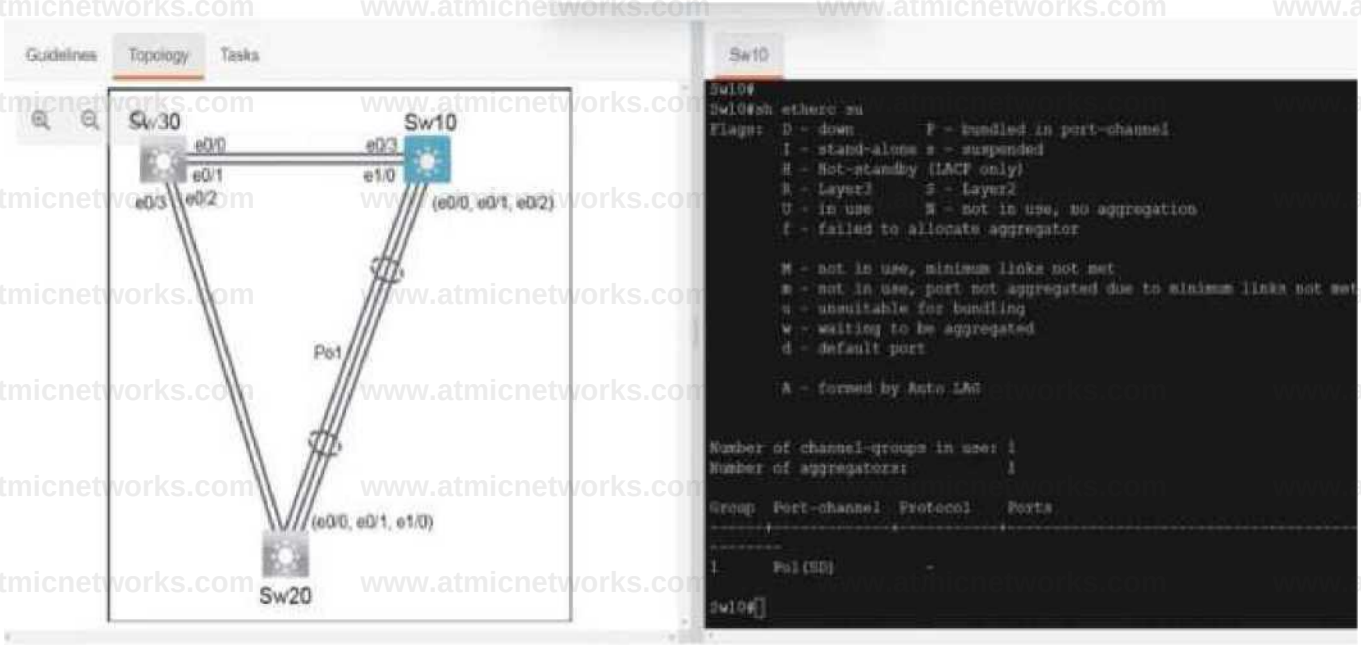
No shut

Spanning-tree vlan 10 priority 0

Spanning-tree vlan 30 priority 0

Question: 375

SIMULATION



Guidelines Topology Tasks

Complete the tasks below by making changes to Sw10 only. No access is provided to Sw20 or Sw30.

Task 1

Sw20 Is actively attempting to negotiate an 802.1 trunking EtherChannel with Sw10 using LACP, but the channel Is not functional. Resolve the issues on Sw10.

Task 2

Modify the spanning tree configuration to ensure that Sw10 is always the root for VLAN 10 and VLAN 30.

Swi

0

Sw0»
SwlOUsh etherc su
Flags: D - down P - bundled in port-channel
1 - stand-alone s - suspended
H - Hot-standby (LACP only)
R - Layer! S - Layer!
V - in use N - not in use, no aggregati
1 - failed to allocate aggregator

M - not in use, minimum links not net
m - not In use, port not aggregated due to n u -
unsuitable for bundling w - waiting to be aggregated d -
default port

A - formed by Auto LAG

Number of channel-groups in use: 1
Number of aggregators: 1

Group Port-channel Protocol Ports ------1
---------1----------a ----------

Answer: See the solution below in

Explanation:

Sw10

Config t

no int po1

default int ran et0/0-2

int ran e0/0-2

switchport trunk encap dot1q

switchport mode trunk

channel-group 1 mode active

no shut

```
SwlO(config) t
SwJ0(config)fapa
SwlO(config)fspanning-tree v
Swl0(config)fspanning-ttee vlan 30 pri
SwlO(config)+spanning-tree vlan 30 priority 0
SwlO(config)#
```

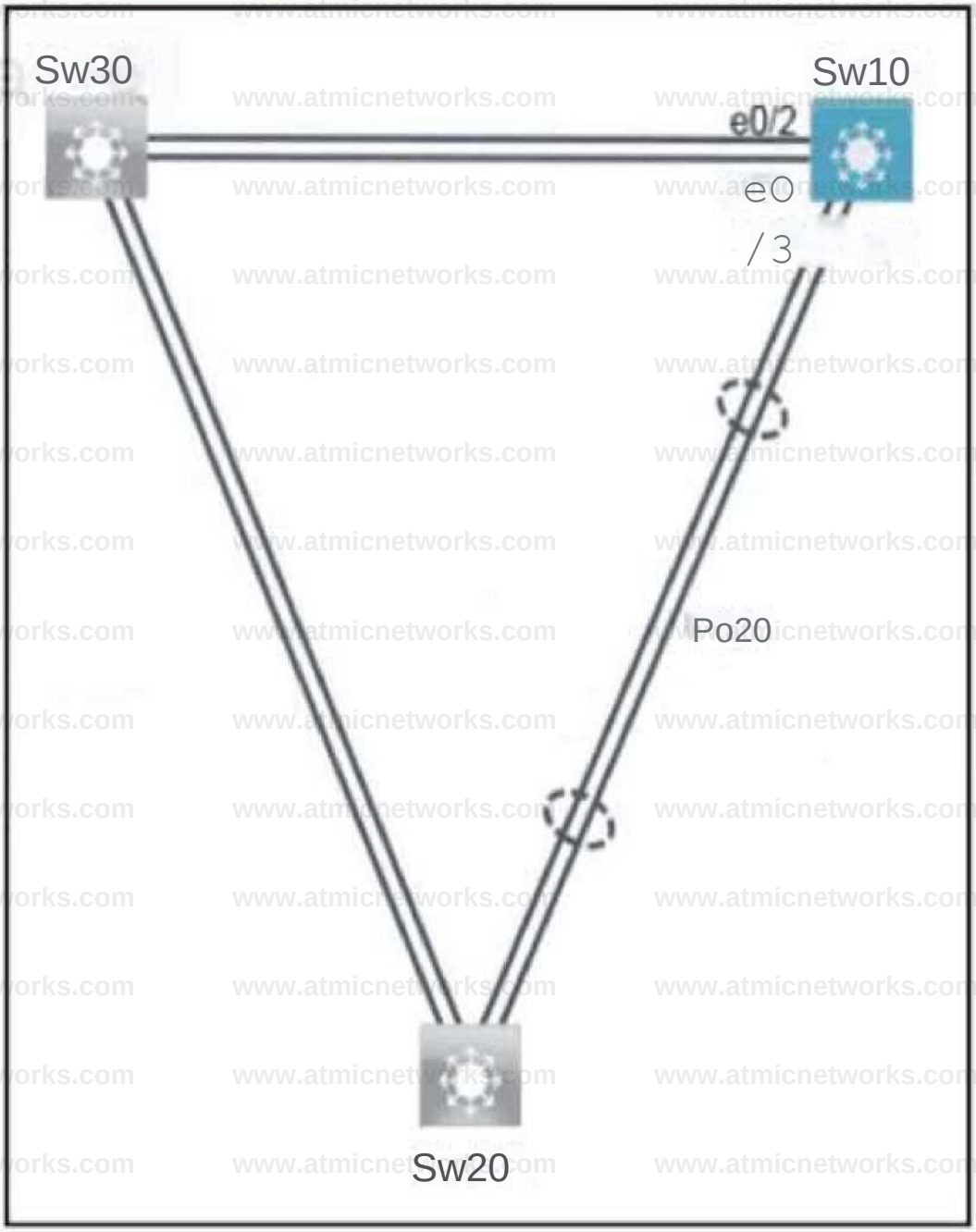
```
Number of channel-groups in use: 1
Number of aggregators:                1

Group Port-channel Protocol Ports
------- +------------------ +----------------+-------

1 Pol(SU)                    LACP Et0/0(P) EtO/l(P) EtO/2(P)

SwlO#
SwlO#
```

wr

Question: 376

SIMULATION

jidehnes Topology Tasks



Complete the tasks below by making changes to Sw10 only. No access is provided to Sw20 or Sw30.

Task 1

Sw20 is actively attempting to negotiate an 802.1 trunking

EtherChannel with Sw10 using LACP, but the channel is not functional. Resolve the issues on Sw10.

Task?

Modify the spanning tree configuration to ensure that Sw10 is always the root for VLAN 20.

Answer: See the solution below in

Explanation:

Solution:

Sw10

config t

no int po20

int et0/0

channel-group 20 mode active

no shut

spanning-tree vlan 20 pri 0

wr

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Verification:-

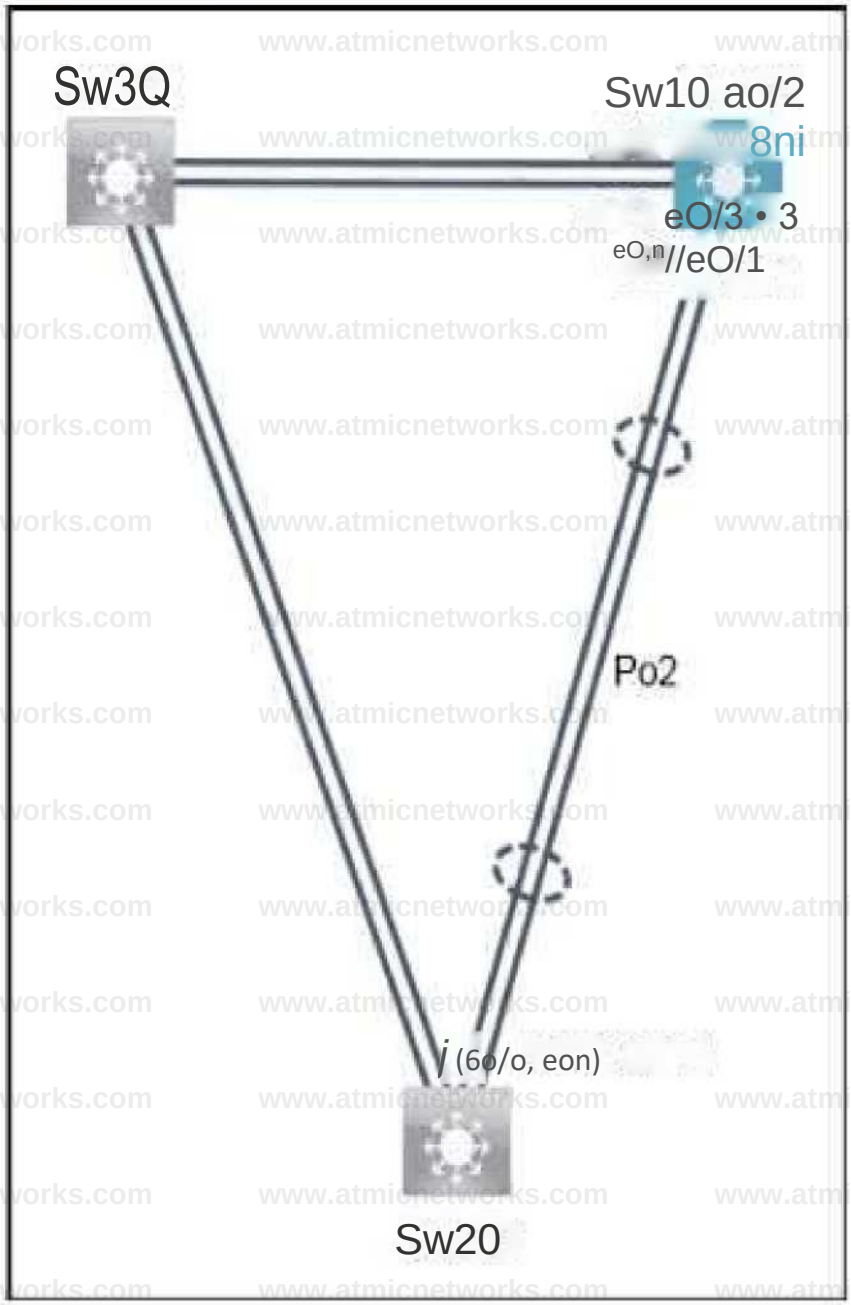
```
Number of channel-groups in use: 1
Number of aggregators:          1

Group Port-channel Protocol Ports  +----------------------------------
4 ---- + ------------

20 Po20(SU)               LACP Et0/0(P)
```

Question: 377

SIMULATION



Complete the tasks below by making changes to Sw10 only. No access is provided to Sw20 or Sw30.

Task 1

Sw20 is actively attempting te negotiate an 802.1 trunking EtherChannel with Sw10 using LACP, but the channel is not

functional. Resolve the issues on Sw10.

Task 2

Modify the spanning tree configuration to ensure that Sw10 is always the root for VLAN 10.

Answer: See the solution below in

Explanation:

Solution:

Sw10

config t

no int po2

int et0/0

channel-group 2 mode active

no shut

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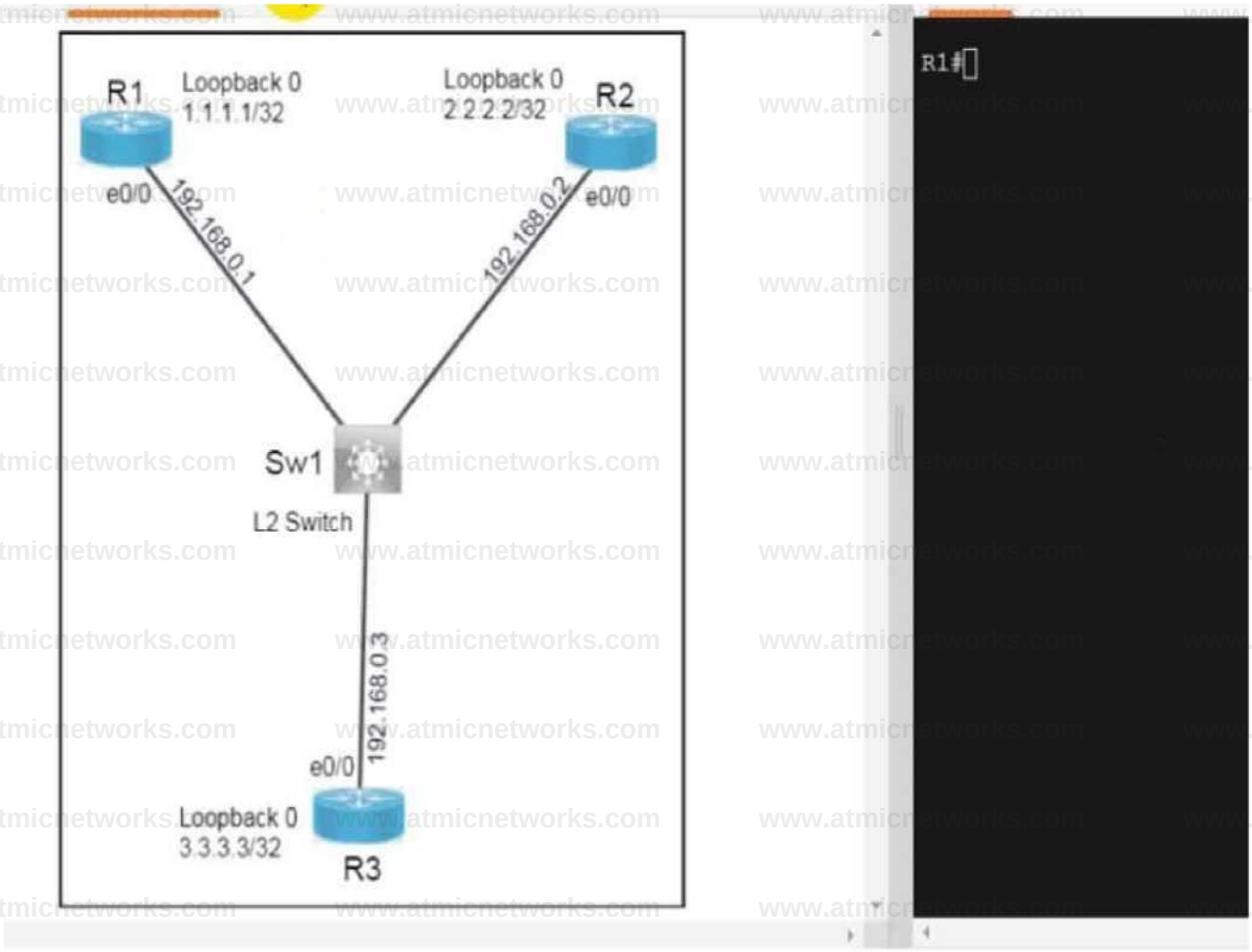
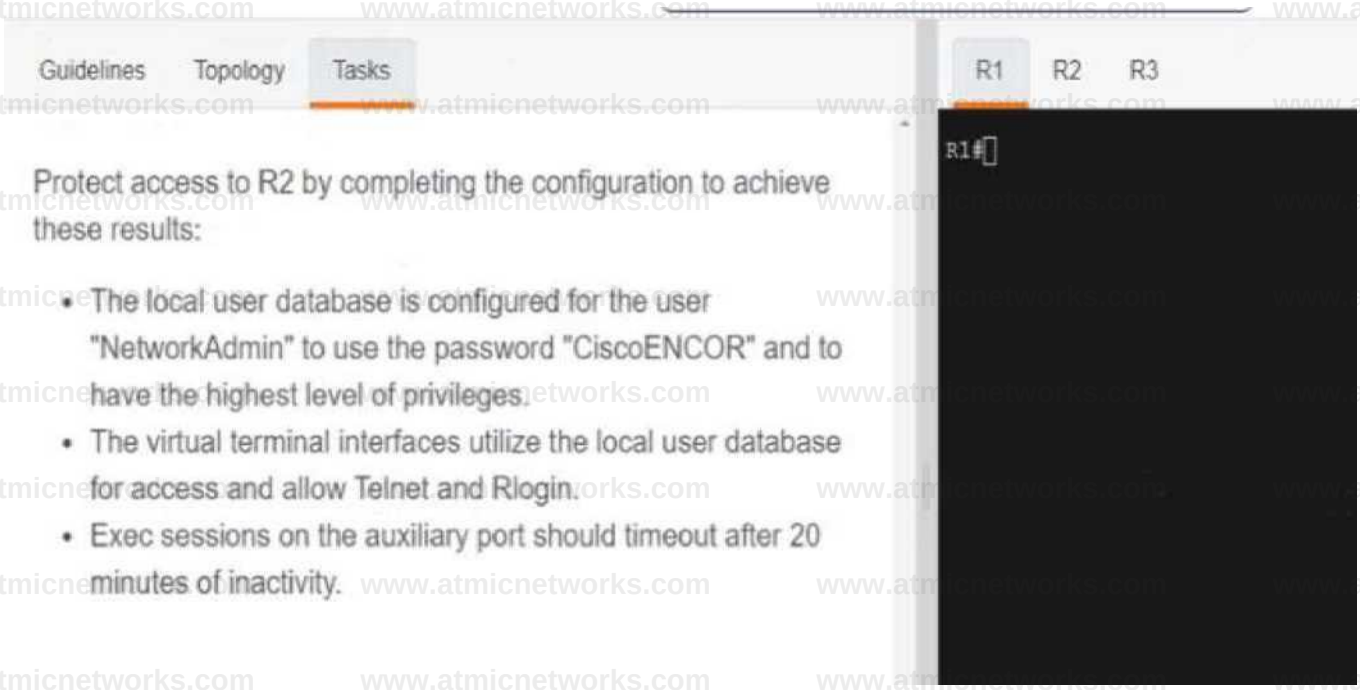
spanning-tree vlan 10a pri 0

wr

Question: 378

SIMULATION





Answer: See the solution below in

Explanation:

Solution:

R2

config t

username NetworkAdmin privilege 15 password CiscoENCOR

line vty 0 4

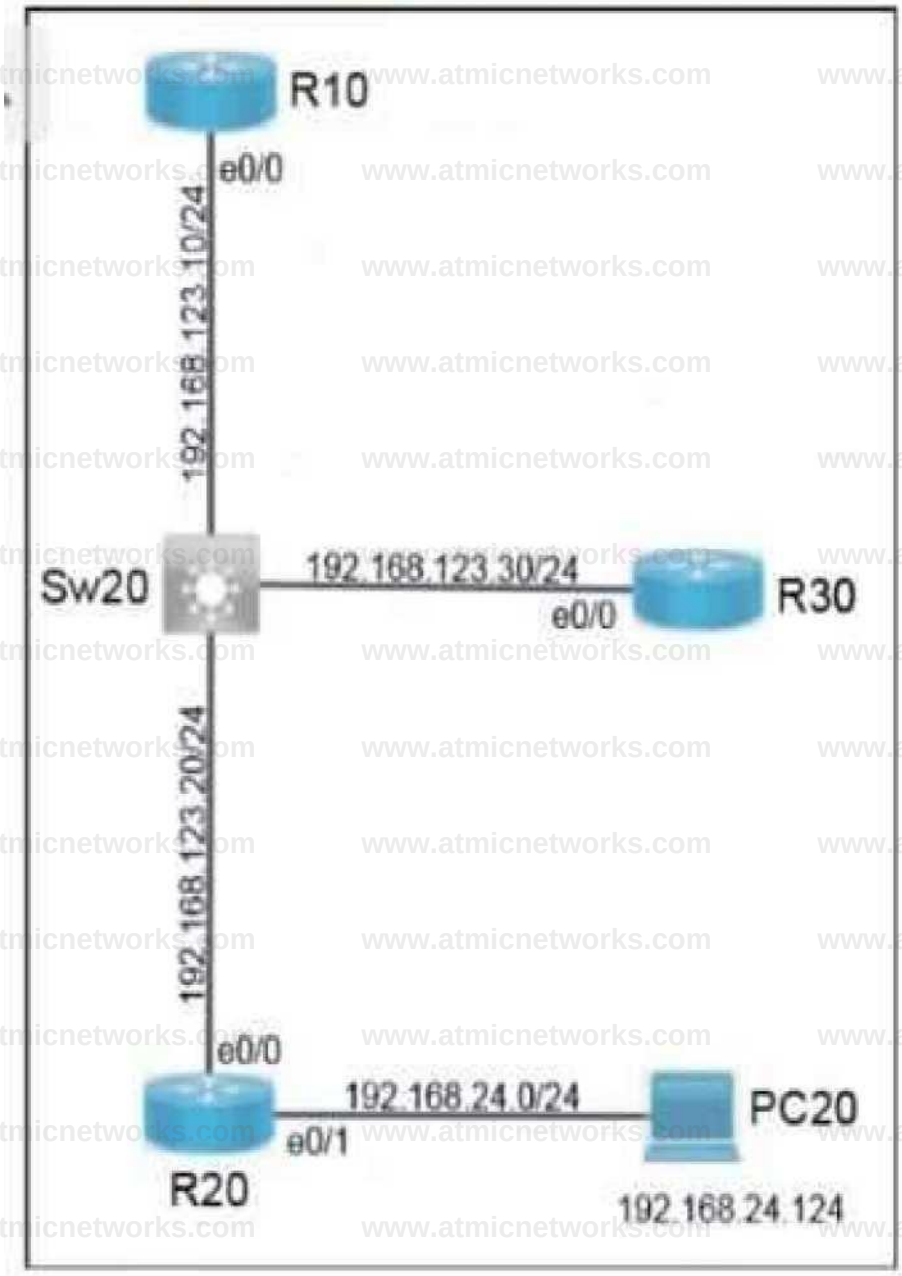
login local

transport input telnet rlogin

exec-timepit 20

Question: 379

SIMULATION


R10
e0/0
192.168.123.10/24
Sw20
192.168.123.30/24
e0/0
R30
192.168.123.20/24
e0/0
192.168.24.0/24
e0/1
PC20
R20
192.168.24.124

Standard tablet Goldmines Topology Tasks

EIGRP s preconfigured on all routers. Configure R20 and RM to complete these tasks.

Task 1:

Modify the existing ACL on RM so that EIGRP routes are received from R10 and R20.

- The modification should only allow EIGRP routes to pass.
- Do not remove any configuration from R30 to achieve this task

Task 2:

Configure CoPP on R20 to achieve these results:

- Permit Telnet traffic from 192.168.24.124.
- Limit traffic to 10.000 bps.
- Discard additional packets.

R10 R20 PC20 R30

```
R30(confiq-ext-nacl>45 remit eigrp any any
P30Iconfig-ext-naciIf
RJOI ccnflg-ext-MclJI
P301 conf ig-ext-naci) *
H301 oonfig-ext-nacl) I
P30(config-ext-nacl)tend piotwr
Building configuration...
I OBJ PlCt
■ Oct 24 08:55:50.271: 4SYS-5-CORFI.S I: Configured Iron
co
```

```
■ Oct 24 C8:53:50.847: WTOU.-S-1IBRCHMCes EIGRP-
IPsf 10: M
.123.20 (Ethernet0/0) is up: new adjacency
■ Oct 24 08:58:51.084: »t3OM-5-NBIs<ntMKEs EIGRP-
IPV4 10: »
.123.10 (EthernetO/C) is op: new adjacency
P30f 8304 R3N«r
Building configuration...
w
*30*
*30*
*30*
R3H
*30*
*30«|
```

Answer: See the

Explanation:

Solution:

R30

show ip access-list

config t

ip access-list extended 120

5 permit eigrp any any

wr

R20

```
config t
ip access-list extended 100
permit tcp 192.168.25.0 0.0.0.255 any eq 23

class-map match-any TELNET
match access-group 100

policy-map CoPP
class TELNET
police 10000 conform-action transmit exceed-action drop

control-plane
service-policy input CoPP

wr
```

Question: 380

SIMULATION

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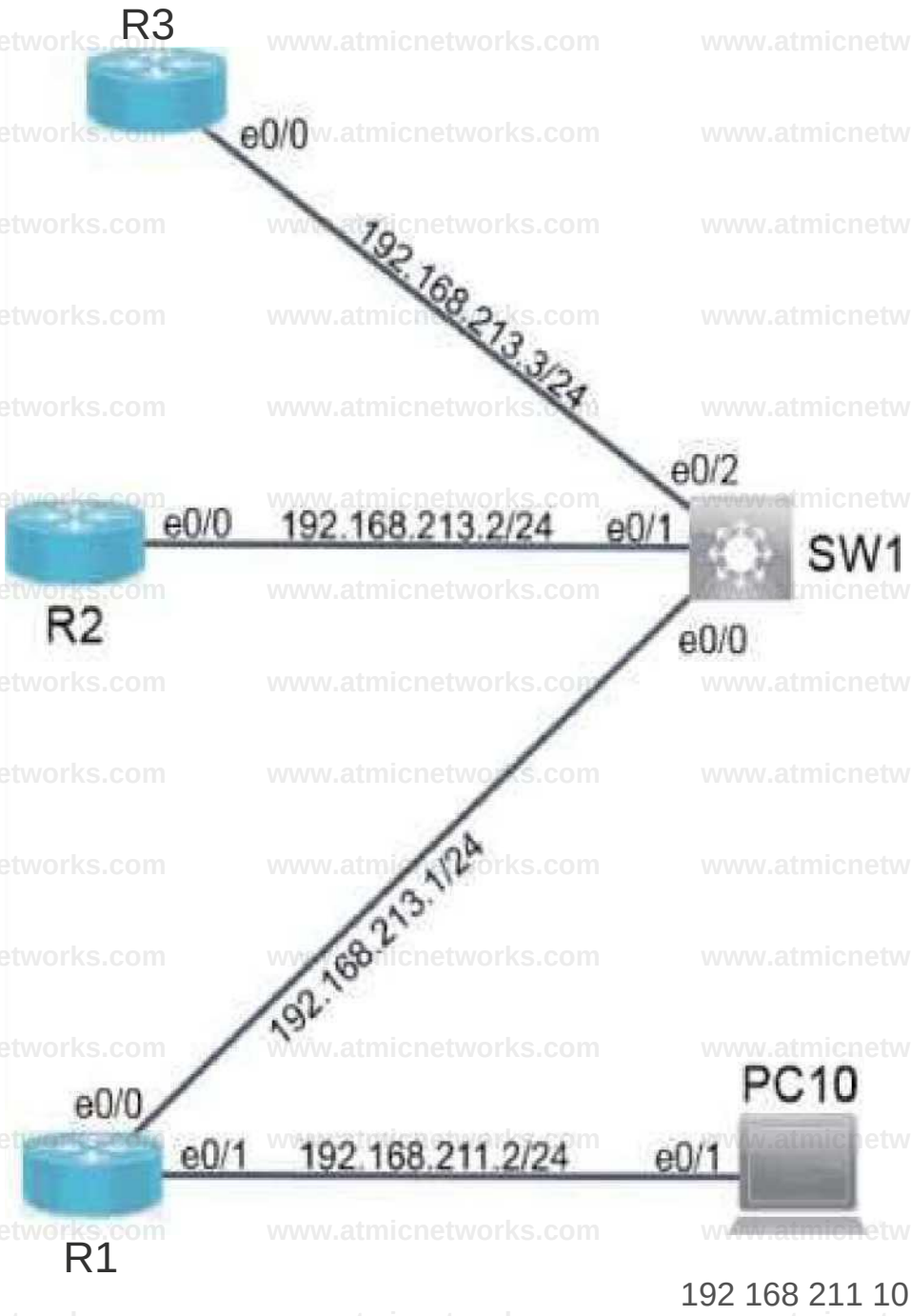

Standard Lablet Guidelines Topology Tasks

EIGRP is preconfigured on all routers. Configure R2 and R3 to complete these tasks.

Task 1:

Modify the existing ACL on R2 so that EIGRP routes are received from R1 and R3.

- The modification should only allow EIGRP routes to pass.
- Do not remove any configuration from R2 to achieve this task.

Task 2:

Configure CoPP on R3 to achieve these results:

- Permit SSH traffic from 192.168.211.0/24.
- Limit traffic to 8,000 bps.

Task 2:

Configure CoPP on R3 to achieve these results

- Permit SSH traffic from 192.168.211.0/24.
- Limit traffic to 8,000 bps.
- Discard additional packets.

Answer: See the solution below in

Explanation:

Solution:

R2

show ip access-list

config t

ip access-list extended 151

5 permit eigrp any any

wr

R3

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```
config t

ip access-list extended 100

permit tcp 192.168.211.0 0.0.0.255 any eq 22

class-map match-any SSH

match access-group 100

policy-map CoPP

class SSH

police 8000 conform-action transmit exceed-action drop

control-plane

service-policy input CoPP

wr
```