



"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

How do you calculate a Kubernetes cluster's consistent resource capacity?

Score 2

- A. Microservice amount * Instance type (e.g. 2C/4G)
- B. Microservice amount * Average instance amount * Instance type (e.g. 2C/4G)
- C. Microservice amount * Average instance amount * Instance type (e.g. 2C/4G) * Redundancy
- D. Microservice amount * Average instance amount * Instance type (e.g. 2C/4G) * Redundancy +

Autoscale nodes instance type

This is the blank file which was shared for last exam

Answer: C

Question: 2

Which type of instance is used by Alibaba Serverless Kubernetes (ASK)?

Score 2

- A. ECS
- B. ECI

Answer: B

Question: 3

Why is an RDMA network advantageous for machine learning tasks?

Score 2

- A. Because it will accelerate the speed of communication between each node
- B. Because it will improve the performance of an ML job
- C. Because it will save costs

Answer: A

Question: 4

Which Alibaba Cloud service is used to run pods in a serverless cluster?

Score 2

- A. ECS
- B. ECI

Answer: B

Question: 5

For database migration, if the source database uses Oracle database features, which Alibaba Cloud database should you choose for migration?

Score 2

- A. PolarDB
- B. RDS
- C. AnalyticDB

Answer: A

Question: 6

Which of the following is correct regarding Alibaba Serverless Kubernetes (ASK) scaling?

Score 2

- A. Scaling out to 500 Pods takes about 30s
- B. Scaling out to 500 Pods takes about 50s
- C. Scaling out to 500 Pods takes about 90s

Answer: A

Question: 7

How do you collect application log data using Log Service?

Score 2

- A. Configure Kubernetes standard output in Import Data by Log Service console
- B. Configure where to store logs in each pod

Answer: A

Question: 8

Both Federation and Istio can achieve multi-cluster management?

Score 2

- A. True
- B. False

Answer: B

Question: 9

Master nodes managed by Alibaba Cloud support Container Service for Kubernetes (ACK) managed clusters
Score 2

- A. True
- B. False

Answer: A

Question: 10

For Storage migration, Alibaba Cloud provides both offline migration and online migration services.
Score 2

- A. True
- C. False

Answer: A

Question: 11

ARMS-Prometheus can monitor node usage from multiple clusters.
Score 2

- A. True
- B. False

Answer: A

Question: 12

Only Alibaba Cloud Container Service for Kubernetes (ACK) Dedicated Clusters support "Encrypting Secret Data at Rest with KMS".
Score 2

- A. True
- B. False

Answer: B

Question: 13

Alibaba Cloud Container Service for Kubernetes (ACK) can register Kubernetes clusters running on-premise or on other cloud platforms.

Score 2

- A. True
- B. False

Answer: A

Question: 14

Terraform and Helm Chart are the same tool, and are used for infrastructure orchestration.

Score 2

- A. True
- B. False

Answer: B

Question: 15

Requests are routed to the desired cluster based on DNS availability.

Score 2

- A. True
- B. False

Answer: B

Question: 16

CronHPA was developed by Alibaba Cloud.

Score 2

- A. True
- C. False

Answer: A

Question: 17

ACR EE (Container Registry Enterprise Edition) has P2P distribution support.

Score 2

- A. True
- B. False

Answer: A

Question: 18

Alibaba Cloud Container Service for Kubernetes (ACK) supports the creation of multiple scaling groups with cluster autoscaler.

Score 2

- A. True
- B. False

Answer: A

Question: 19

Alibaba Cloud Container Service for Kubernetes (ACK) supports GPU resource autoscaling.

Score 2

- A. True
- B. False

Answer: A

Question: 20

Alibaba Serverless Kubernetes (ASK) is similar to Function Compute. Score 2

- A. True
- B. False

Score 6.7

- A. When create ACK cluster it can be installed
- B. It can be installed by app catalog

Answer: B

Question: 24

Which of the following are correct ways to generate a Log Service ingress dashboard? (Number of correct answers: 2)

Score 2

- A. When creating an Alibaba Cloud Container Service for Kubernetes (ACK) cluster, an ingress dashboard can be installed at creation time.
- B. LogStore can be installed via app catalog.
- C. The Logtail-ds component can be installed by using ACK cluster add-ons.

Answer: B, C

Question: 25

How do you calculate a Kubernetes cluster's consistent resource capacity?

Score 2

- A. $\text{Microservice amount} * \text{Instance type (e.g. 2C/4G)}$
- B. $\text{Microservice amount} * \text{Average instance amount} * \text{Instancetype (e.g. 2C/4G)}$
- C. $\text{Microservice amount} * \text{Average instance amount} * \text{Instancetype (e.g. 2C/4G)} * \text{Redundancy}$
- D. $\text{Microservice amount} * \text{Average instance amount} * \text{Instancetype (e.g. 2C/4G)} * \text{Redundancy} + \text{Autoscale nodes instance type}$

Answer: C

Question: 26

Which type of instance is used by Alibaba Serverless Kubernetes (ASK)?

Score 2

- A. ECS
- B. ECI

Answer: B

Question: 27

Why is an RDMA network advantageous for machine learning tasks?

Score 2

- A. Because it will accelerate the speed of communication between each node
- B. Because it will improve the performance of an ML job
- C. Because it will save costs

Answer: A

Question: 28

Which Alibaba Cloud service is used to run pods in a serverless cluster?

Score 2

- A. ECS
- B. ECI

Answer: B

Question: 29

For database migration, if the source database uses Oracle database features, which Alibaba Cloud database should you choose for migration?

Score 2

- A. PolarDB
- B. RDS
- C. AnalyticDB

Answer: A

Question: 30

Which of the following is correct regarding Alibaba Serverless Kubernetes (ASK) scaling?

Score 2

- A. Scaling out to 500 Pods takes about 30s
- B. Scaling out to 500 Pods takes about 50s
- C. Scaling out to 500 Pods takes about 90s

Answer: A

Question: 31

Which service can monitor infrastructure utilization?

Score 2

- A. CloudMonitor
- B. Log Service
- C. ARMS

Answer: A

Question: 32

How do you collect application log data using Log Service?

Score 2

- A. Configure Kubernetes standard output in Import Data by Log Service console
- B. Configure where to store logs in each pod

Answer: B

Question: 33

Both Federation and Istio can achieve multi-cluster management?

Score 2

- A. True
- B. False

Answer: B

Question: 34

Master nodes managed by Alibaba Cloud support Container Service for Kubernetes (ACK) managed clusters

Score 2

- A. True
- B. False

Answer: A

Question: 35

For Storage migration, Alibaba Cloud provides both offline migration and online migration services.

Score 2

- A. True
- B. False

Answer: A

Question: 36

ARMS-Prometheus can monitor node usage from multiple clusters.Score 2

- A. True
- B. False

Answer: A

Question: 37

Only Alibaba Cloud Container Service for Kubernetes (ACK) Dedicated Clusters support "Encrypting Secret Data at Rest with KMS".

Score 2

- A. True
- B. False

Answer: B

Question: 38

Alibaba Cloud Container Service for Kubernetes (ACK) can register Kubernetes clusters running on-premise or on other cloud platforms.

Score 2

- A. True
- B. False

Answer: A

Question: 39

Terraform and Helm Chart are the same tool, and are used for infrastructure orchestration.

Score 2

- A. True
- B. False

Answer: B

Question: 40

Requests are routed to the desired cluster based on DNS availability. Score 2

- A. True
- B. False

Answer: B

Question: 41

CronHPA was developed by Alibaba Cloud. Score 2

- A. True
- C. False

Answer: A

Question: 42

ACR EE (Container Registry Enterprise Edition) has P2P distribution support. Score 2

- A. True
- B. False

Answer: A

Question: 43

Alibaba Cloud Container Service for Kubernetes (ACK) supports the creation of multiple scaling groups with cluster autoscaler.

Score 2

- A. True
- C. False

Answer: A

Question: 44

Alibaba Cloud Container Service for Kubernetes (ACK) supports GPU resource auto-scaling.

Score 2

- A. True
- B. False

Answer: A

Question: 45

Alibaba Serverless Kubernetes (ASK) is similar to Function Compute.

Score 2

- A. True
- B. False

Answer: A

Question: 46

Which function is supported in Cloud-Native Application Supply Chain? (Number of correct answers: 4)

Score 2

- A. Image scanning
- B. Intelligent building
- C. Global distribution

- D. Automatic trigger
- E. Image runtime defense

Answer: A, B, C,D

Question: 47

Which methods can be used to replicate images from other registries? (Number of correct answers: 2)
Score 2

- A. Image-sync tool for Registry v2 based services
- B. Import images based on a storage endpoint
- C. P2P based large scale image distribution
- D. Policy based global distribution

Answer: A, B

Question: 48

Which of the following are correct ways to generate a Log Service ingress dashboard? (Number of correct answers: 2)
Score 2

- A. When creating an Alibaba Cloud Container Service for Kubernetes (ACK) cluster, an ingress dashboard can be installed at creation time.
- B. LogStore can be installed via app catalog.
- C. The Logtail-ds component can be installed by using

Answer: B, C

Question: 49

Which of the following statements are correct regarding image distribution in ACR EE (Container Registry Enterprise Edition)? (Number of correct answers: 3)
Score 2

- A. It enable large-scale distribution and policy-based global distribution
- B. P2P based distribution supports docker image snapshots without pulling
- C. P2P based method supports image distribution over more than 10,000 nodes
- D. The snapshot method speeds up image pulling, with pull times as low as 1 second

Answer: B, C, D

Container Registry Service (ACR) Enterprise Edition



The image shows a grid of four features for ACR Enterprise Edition, each with an icon and a list of bullet points. The features are: Cloud-Native Artifact, E2E Security, Optimized Distribution, and Global Replication. A red banner at the bottom of the grid states 'SLA 99.95%'.

- Cloud-Native Artifact**
 - Manage both container images and Helm charts with OCI
- E2E Security**
 - SPC internet support
 - User-defined domain and network ACL
 - Server-side encryption for storage
 - Vulnerability scan and analysis
 - Content trust
- Optimized Distribution**
 - P2P based large scale image distribution over 100 nodes
 - Speed up image pulling to 1 sec through snapshot
- Global Replication**
 - Policy based image replication across different regions
 - Replication efficiency improved 7 fold

SLA 99.95%

Container Registry Service (ACR) Enterprise Edition

SLA 99.95%



The image shows a grid of four features for ACR Enterprise Edition, each with an icon and a list of bullet points. The features are: Cloud-Native Artifact, E2E Security, Large-scale Distribution, and Global Replication. A red banner at the top of the grid states 'SLA 99.95%'.

- Cloud-Native Artifact**
 - Dedicated registry instance with plug-in mechanisms
 - Manage container images, Helm charts with OCI and OCI artifact
- E2E Security**
 - User-defined domain and network ACL
 - Server-side encryption for storage
 - Vulnerability scan and analysis
 - Content trust
- Large-scale Distribution**
 - P2P based large scale image distribution over 100 nodes
 - Speed up image pulling to 1 sec through snapshot
- Global Replication**
 - Policy based image replication across different regions
 - Replication efficiency improved 7 fold

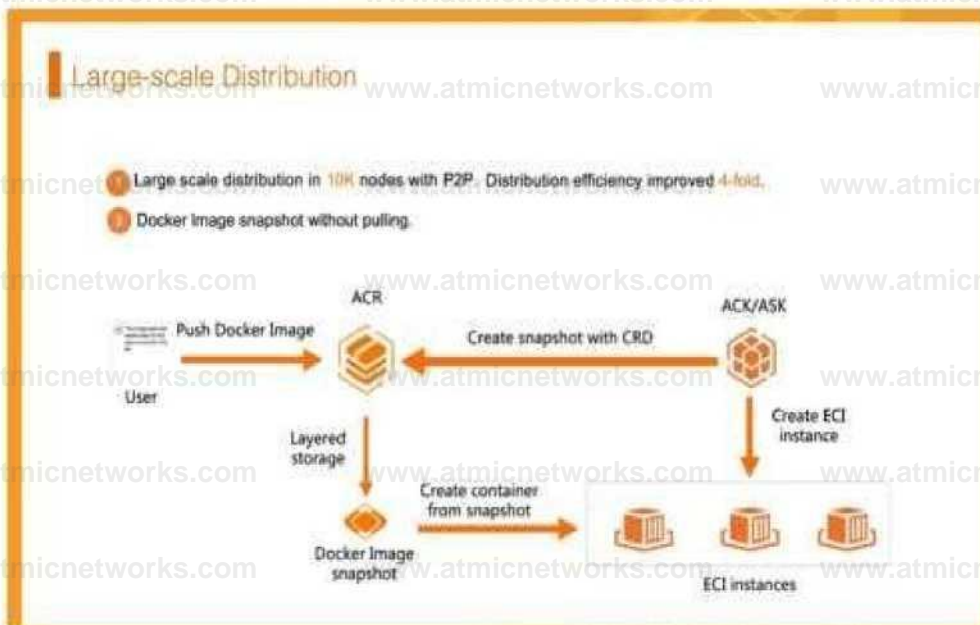
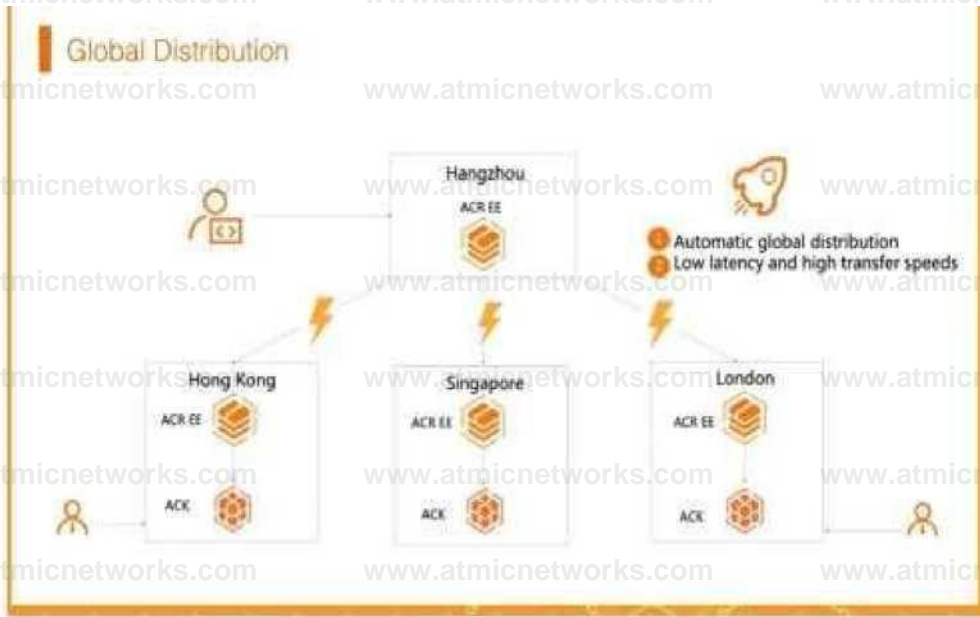
Question: 50

Which of the following options are correct, regarding global distribution? (Number of correct answers: 3)

Score 2

- A. Supports policy-based global distribution
- B. Global distribution is automated
- C. It provides a high success rate and low latency
- D. Global distribution needs to be triggered manually

Answer: A, B, C



Question: 51

Which of the following statements are correct, with regards to Alibaba Serverless Kubernetes (ASK)? (Number of correct answers: 3)

Score 2

- A. No need to manage backend servers
- B. No need to do OS upgrades or patching of the underlying system
- C. Pay-As-You-Go
- D. Pods run on ECS

Answer: A, B, C

Question: 52

Which steps are included in Alibaba Cloud Container Service for Kubernetes (ACK)'s cluster control plane for daily scanning? (Number of correct answers: 3)

Score 2

- A. Hardening cluster control-plane security based on CIS Kubernetes Benchmark
- B. Ensure system pods and controllers are configured using best practices
- C. Ensure there is no critical CVE vulnerability in system pods' images
- D. Check each cluster does not have known vulnerabilities in its images

Answer: A, B, C

Question: 53

Which of the following are correct statements about Alibaba Cloud Container Service for Kubernetes (ACK)'s Sandboxed Pods? (Number of correct answers: 3)

Score 2

- A. Sandboxed pods are a Docker runtime container type, and can run any docker image
- B. Sandboxed Pods provide an independent kernel to enable enhanced security isolation
- C. Sandboxed Pods can be run on both ECS and ECS Bare Metal (EBM) instances
- D. Sandboxed Pods can also support multiple running containers per Pod

Answer: A, B, D

Question: 54

Which types of Volume are supported by Alibaba Serverless Kubernetes (ASK)? (Number of correct answers: 3)

Score 2

- A. Cloud Disk
- B. NAS
- C. OSS
- D. Local Disk

Answer: A, B, C



Question: 55

Which of the following are security features supported by Alibaba Cloud Container Service for Kubernetes (ACK)? (Number of correct answers: 3)
Score 2

- A. AuthN, AuthZ
- B. Role-based Access Control
- C. DevSecOps includes scanning container images, and signing container images in ACR Default Instance Edition and Enterprise Edition
- D. Data encryption of volumes

Answer: A, B, C

End-to-end Cloud Native Security



Graded Protection for Information Security Level 3



<https://www.alibabacloud.com/trust-center>

Question: 56

Which of the following options are correct, regarding Alibaba Cloud cloud-native security? (Number of correct answers: 5)

Score 2

- A. Alibaba Cloud provides 3 levels of security: Infrastructure, Software supply chain, and Runtime Security
- B. At the Infrastructure layer, Alibaba Cloud Container Service for Kubernetes (ACK) integrates RAM to achieve authN (Authentication) and RBAC authZ (Authorization)
- C. For Software Supply Chain, Alibaba Cloud provides Image Signing and Image Scanning to make docker images are secure
- D. For Runtime Security, ACK provides network policy based on Flannel and Terway networks
- E. Security Center can defend application runtimes on ACK, and it also can detect attacks within ACK.
- F. ACK supports Sandboxed containers, which provide an independent kernel to enable enhanced security isolation

Answer: A, B, C, D, F

Question: 57

Which of the following dashboards are provided by Log Service by default? (Number of correct answers: 4)

Score 2

- A. Ingress Access Center
- B. Kubernetes Event Center
- C. Ingress Exception Center
- D. Ingress Monitoring Center for Blue/Green Deployment
- E. Infrastructure Resource Usage Monitoring

Answer: A, B, C, D

Question: 58

Which of the following statements are correct regarding Alibaba Serverless Kubernetes (ASK)? (Number of correct answers: 2)

Score 2

- A. Serverless clusters are nodeless
- B. Serverless clusters support GPU instances and Preemptible instances
- C. Serverless clusters can add ECS instances worker nodes

Answer: A, B

Question: 59

Which of the following options are correct with respect to supported external metrics ? (Number of correct answers: 3)

Score 2

- A. Log Service (Ingress)
- B. SLB
- C. CMS
- D. Network

Answer: ABD

Question: 60

Which instance type can be scaled by Alibaba Cloud Container Service for Kubernetes (ACK) auto scaling?
(Number of correct answers: 5)

Score 2

- A. ECS
- B. EBM (bare-metal)
- C. GPU Instance
- D. Preemptible instance
- E. Virtual Node
- F. HPA

Answer: A, B, C, D, E

Question: 61

Which of the following statements are correct regarding cluster autoscaler? (Number of correct answers: 3)
Score 2

- A. Cluster autoscaler provides "standard mode" and "swift mode" for scale out
- B. Cluster autoscaler will add worker nodes, such as ECS, via AutoScaling when scaling out
- C. Swift mode is quicker than standard mode when scaling out
- D. One cluster only supports one scaling group
- E. Scaling group can be defined or created via a special namespace

Answer: A, B, C

Question: 62

Which of the following benefits are accurate with respect to using Terraform? (Number of correct answers: 4)

Score 2

- A. It is an infrastructure orchestration tool: it's not only for resource configuration
- B. It can achieve "immutable infrastructure"
- C. It is a declarative but not procedural language
- D. It can make it easy to achieve CI (continuous integration) of application code
- E. It can achieve exactly the same Dev, Staging, and Production environment by deploying a new environment from an existing template

Answer: A, B, E

Question: 63

Which of the following are true, regarding Helm Charts? (Number of correct answers: 3)

Score 2

- A. Helm Charts are declarative but not procedural
- B. Helm Charts can achieve "immutable infrastructure"
- C. Helm Charts make it easy to install Kubernetes objects, such as ConfigMap, Services, Pods, etc.
- D. Helm Charts make it easy to achieve CD (continuous deployment) for applications

Answer: A, C, D

Question: 64

Which of the following statements are correct regarding creating an Alibaba Cloud Container Service for Kubernetes (ACK) cluster using Terraform? (Number of correct answers: 3)

Score 2

- A. Terraform can configure a Log Project and Log Store in Log Service when creating an ACK cluster
- B. Terraform can configure kube2iam policy when creating an ACK cluster
- C. Terraform can configure a deployment.yaml file when creating an ACK cluster
- D. Terraform can create a ARMS Helm Chart

Answer: A, B, D

Question: 65

Which type of resource are suitable for creation via Helm Chart? (Number of correct answers: 3)

Score 2

- A. Prometheus Operator
- B. K8S Deployment
- C. K8S Service
- D. KMS Secrets

Answer: A, B, C

Question: 66

How does Alibaba Cloud accelerate AI/ML on Alibaba Cloud Container Service for Kubernetes (ACK)? (Number of correct answers: 3)

Score 2

- A. Supports continuous training pipelines with composable workflow
- B. Scales out to hundreds of nodes to support AI/ML model training
- C. Supports heterogeneous resource management, including management of GPU, FPGA, and RDMA-enabled resources
- D. All resources are free

Answer: A, B, C

Question: 67

Which of the following options are correct regarding the distributed data cache of Alibaba Cloud's Container Service for Kubernetes (ACK)? (Number of correct answers: 5)

Score 2

- A. Accelerates remote data reading for AI training jobs, and reduces GPU/CPU waiting time
- B. Supports different storage backends including OSS/HDFS/NAS
- C. Multiple cache layers, including RAM/SSD/HDD
- D. Supports preload once, and reads by many jobs
- E. Supports horizontal scaling
- F. Replicates 3 copies of local data to avoid data loss

Answer: A, B, C, D, E

Question: 68

Which types of cluster templates can be chosen when creating Alibaba Cloud Container Service for Kubernetes (ACK) clusters? (Number of correct answers: 6)

Score 2

- A. Standard Managed Cluster
- B. Heterogeneous Compute Cluster (GPU)
- C. Elastic Bare Metal Cluster (Bare-metal)
- D. Edge Computing
- E. Windows-Based Cluster
- F. Standard Serverless Cluster
- G. Gene Cluster

Answer: A, B, C, D, E,

F

Question: 69

Considering Alibaba Cloud Container Service for Kubernetes (ACK) and Alibaba Serverless Kubernetes (ASK), which types of hybrid-cloud strategy are supported? (Number of correct answers: 3)

Score 2

- A. Allow clusters running on IDCs, other clouds, and Alibaba Cloud itself, to be used with "Register Cluster" which is provided by Alibaba Cloud to manage multi-cluster environments. B. Allow a cluster running in a local IDC to scale out to Alibaba Cloud.
- C. Allow a cluster running on Alibaba Cloud to access a database running in a local IDC.
- D. Alibaba Cloud's K8S services cannot provide this functionality: use K8S itself to manage multicloud environments instead.

Answer: A, C, D

Question: 70

Which of the following statements are correct about running AI or Big Data related tasks on Alibaba Cloud Container Service for Kubernetes (ACK)? (Number of correct answers: 4) SCORE 2

- A. Heterogeneous computing is supported.
- B. All major machine learning frameworks are supported.
- C. Optimized K8S scheduling is provided for jobs running on the GPU. For example, it can ensure pods are scheduled on the GPU node, provide shared GPU resources, isolate GPU resources, and do co-scheduling.

- D. GPU and shared GPU utilization can be monitored via Prometheus on Alibaba Cloud.
- E. The "Arena" tool is developed by the community but integrated with Alibaba Cloud ACK.

Answer: A, B, C, D

Question: 71

Which services can also be used to register a cluster? (Number of correct answers: 3)

Score 2

- A. Log Service
- B. ARMS
- C. ARMS-Prometheus
- D. Cloud Monitor

Answer: A, B, C

Question: 72

Which of the following key features are provided by AI/ML solutions? (Number of correct answers: 6)

Score 2

- A. AI/ML job lifecycle management
- B. Optimized scheduler for AI/ML jobs
- C. Unified heterogeneous resources management
- D. Accelerated computation with distributed data cache
- E. Auto Scaling
- F. GPU monitoring and problem detection
- G. Cost management

Answer: A, B, C, D, E,

F

Question: 73

Which of the following options are correct regarding scale out in Hybrid-Cloud scenarios? (Number of correct answers: 3)

Score 2

- A. Pods can be scaled out to Alibaba Serverless Kubernetes (ASK)
- B. Pods can be scaled out to a Virtual Node
- C. Pods can be scaled out to normal worker nodes such as ECS
- D. Pods can be scaled out to special scaling-groups

Answer: A, B, C

Question: 74

For worker nodes, which of the following statements are correct? (Number of correct answers: 3) Score 2

- A. If worker node capacity is more than 1000 cores, consider using EBM (ECS Bare Metal).
- B. You should choose higher instance specifications, because you can run more tasks on a single worker node this way, improving utilization.
- C. You should choose the lowest possible instance specification for your workers, to reduce costs.
- D. Ensure redundant worker node capacity for each running pod.
- E. Attach data disk to worker nodes, because Docker image, system logs, and temp data will consume space. Without a data disk, systems can quickly run out of disk space.

Answer: C, D, E

Question: 75

Which of the following options are detailed external metrics supported by Log Service (ingress)? (Number of correct answers: 3)

- A. sls_ingress_qps
- B. sls_ingress_latency_avg
- C. sls_ingress_latency_99
- D. sls_ingress_pv

Answer: A, B, C

Question: 76

How does Alibaba Cloud accelerate AI/ML on Alibaba Cloud Container Service for Kubernetes (ACK)? (Number of correct answers: 3)

- A. Supports continuous training pipelines with composable workflow
- B. Scales out to hundreds of nodes to support AI/ML model training
- C. Supports heterogeneous resource management, including management of GPU, FPGA, and RDMA-enabled resources
- D. All resources are free

Answer: A, B, C

Question: 77

Which of the following statements are correct about Alibaba Cloud Container Registry (ACR)? (Number of correct answers: 3)

- A. ACR is able to replicate images across regions
- B. ACR provides vulnerability scanning for uploaded images
- C. ACR can manage helm charts
- D. ACR's standard version includes cross-region image replication

Answer: A, B, C

Question: 78

Which of the following statements are correct for storage usage of Alibaba Cloud Container Service for Kubernetes (ACK)? (Number of correct answers: 2)

- A. Cloud Disk includes SSD, ESSD, and Efficiency: the minimum size is 25 GB
- B. OSS is ideal for archival storage (i.e. lots of writing, less frequent reads)
- C. ACK provides 5 StorageClass types by default, for Cloud Disk
- D. You should create a NAS subdirectory first, and then attach it to ACK

Answer: B, C

Question: 79

Which service can monitor infrastructure utilization?

- A. CloudMonitor
- B. Log Service
- C. ARMS

Answer: A

Question: 80

Which types of instances are supported by Alibaba Serverless Kubernetes (ASK)? (Number of correct answers: 3)

- A. Standard CPU type
- B. GPU type
- C. Preemptible Instance

D. Bare Metal Instance

Answer: A, B, C

Question: 81

Which of the following statements are correct, regarding ACR EE (Container Registry Enterprise Edition)'s security? (Number of correct answers: 3)

- A. ACR EE allows you to perform security scans on all Linux-based images
- B. You can receive vulnerability assessments and recommendations
- C. With the cloud-native delivery chain, the system will automatically block the deployment of high-risk images
- D. With the cloud-native delivery chain, an attacker can deploy an unsigned image on the ACK cluster E. By default, a newly created ACR EE is connected to all networks

Answer: A, B, C

Question: 82

Which of the following options are correct about the AI/Machine Learning benefits of running on ACK? (Number of correct answers: 4)

- A. Heterogeneous computing supported
- B. All major machine learning frameworks are supported
- C. Optimized k8s scheduling dedicated for jobs running on GPU, such as make pods be tight on GPU node, provide shared GPU, GPU isolated, co-scheduling
- D. GPU and shared GPU utilization can NOT be monitoring in Prometheus on alibaba cloud
- E. Arena tool was initial develop by alibaba cloud and contributed to kubeflow

Answer: A, B, C, D, E

Question: 83

What kind of cluster templates can be chosen when creating an ACK cluster? (Number of correct answers: 5)

- A. Standard managed cluster
- B. Heterogeneous Compute Cluster(GPU)
- C. Elastic Bare Metal Cluster(Bare-metal)
- D. Edge Computing
- E. Windows
- F. E-MapReduce

Answer: A, B, C, D, F

Question: 84

Which types of networks can ACK provide^ (Number of correct answers: 2)

- A. Flannel
- B. Tcrway
- C. VPN
- D. GA

Answer: A, B

Question: 85

Which type of storages does ACK support? (Number of correct answers: 5)

- A. Cloud Disk
- B. NAS
- C. OSS
- D. CPFS
- E. Local Disk
- F. HDFS

Answer: A, B, C, D, F

Question: 86

Which type of cluster does ACK(Alibaba Cloud Container Service for Kubemetes) provide? (Number of correct answers: 3)

- A. Dedicated Cluster
- B. Managed Cluster
- C. Serverless Cluster
- D. Physical Host Cluster

Answer: A, B, C

Question: 87

Which of the following options are correct about ACR(container registry)? (Number of correct answers: 3)

- A. ACR is able to replicate images cross region
- B. ACR provides vulnerability scan in delivery chain

- C. ACR can manage helm charts
- D. ACR standard version has replica image cross region worldwide

Answer: A, B, C

Question: 88

Which of the following options are ASK (serverless cluster)? (Number of correct answers: 2)

- A. Serverless cluster is nodeless
- B. Serverless cluster supports GPU and spot instance
- C. Serverless cluster can add ECS instance as worker node

Answer: B, C

Question: 89

Which instance type can be autoscaled in resource scaling level by ACK Elasticity? (Number of correct answers: 5)

- A. ECS
- B. EBM(bare-metal)
- C. GPU Instance
- D. Spot Instance
- E. Virtual Node
- F. Slave node

Answer: A, C, D, E, F

Question: 90

Flannel network has Network Policy ability

- A. True
- B. False

Answer: A

Question: 91

ACK(Alibaba Cloud Container Service for Kubernetes) supports many instance types, including ECS, EBS(ECS Bare Metal), GPU instance, Spot instance, and ECI(Elastic Container Instance)

- A. True
- B. False

Answer: A

Question: 92

Applications can be simply auto scaled in seconds. Scaling up 500 nodes takes 2.5 minutes in standard mode, takes 90 seconds in swift mode, and takes 30 seconds on ECI.

- A. True
- B. False

Answer: A

Question: 93

ACK(Alibaba Cloud Container Service for Kubernetes) supports HPA, CronHPA, VPA with multiple dimension external metrics rather than only scale by cpu and memory metrics.

- A. True
- B. False

Answer: A

Question: 94

ACK have multi-cloud cluster management features

- A. True
- B. False

Answer: A

Question: 95

Master nodes managed by Alibaba Cloud side in managed cluster of ACK.

- A. True
- B. False

Answer: A

Question: 96

Which instance is pod running on under serverless cluster?

- A. ECS
- B. ECI

Answer: B

Question: 97

How to keep the data consistency in microservices architecture refer to microservice.io?

- A. Use PL/SQL Statement from RDBMS
- B. Database lock required (commit and rollback scenario)
- C. Use store procedure/function from RDBMS
- D. Use a Choreographer and Event Bus. In the failed scenario in a service, a Choreographer will use event bus to cancel all the communications among services related.

Answer: D

Question: 98

What is the complete parts of Twelve Factor Applications as Guidance to create microservice architecture?

- A. Code Repository, Build + Unit Test+Code Quality, Test Script,Test Suite, Provisioning to Containers, deploy as Microservices
- B. Requirement Gathering and analysis, System Design, Implementation, Integration and Testing, Deployment of system, Maintenance
- C. Design Thinking, Backlog, User Story Mapping, Epic, List of Microservices
- D. Codebase; Dependencies; Configuration; Backing Service; Build, Release & Run; Processes; Port Binding; Concurrency; Disposability; Dev/Prod Parity; Logs; Admin Processes
- E. Source Code management, Jenkins, Docker, Ansible, Teraform

Answer: D

Question: 99

When the asynchronous messages produced by one producer should go to more than one consumer, what tools we should use?

- A. Apache Tomcat
- B. Apache Maven
- C. Apache Kafka
- D. MySQL Server
- E. CDN

Answer: C

Question: 100

What is the foundation of the microservices architecture?

- A. The development of a single application becomes a centralized, including all dependencies on bare metal.
- B. Developing a single application while keeping data consistency with transaction control (like row locking then commit, will rollback when failed)
- C. Developing a single application as a suite of small and independent services that are running in their own processes, can develop and deploy independently.
- D. About developing a single application become modular in the level of method/function, but keep only in 1 object app because we need to manage it easily.

Answer: C

Question: 101

What is the main purpose of monolith architecture to make all modules become centralize?

- A. Easy to scale out
- B. Easy to manage
- C. Reduce cost of software development
- D. Reduce for bandwidth used for software application

Answer: B

Question: 102

What does centralized nature of monolithic applications lead to?

- A. able to scale applications independently, independent application development and deployment, can use diverse technologies for application
- B. able to scale out per module or per service
- C. support agile software development, when we deploy new feature to existing monolith app only duration around 5 second for new traffic
- D. In the lack of being able to scale applications independently, inter-application dependencies that hinder

independent application development and deployment, reliability issues due to the centralized nature and the constraints on using diverse technologies for application

Answer: A

Question: 103

For the deployment of new features in monolith architecture, why does it take longer time than microservices architecture?

- A. Because need to load all used & unused modules of applications
- B. Because need to load only all used modules of applications
- C. Because need to load all unused modules of applications
- D. Because need waiting approval from Project Manager

Answer: A

Question: 104

The success of deploying and scaling microservices is heavily dependent on the adoption of

- A. Virtual machine
- B. Big data analytics
- C. Containers
- D. Cloud provider
- E. RDBMS

Answer: B

Question: 105

The bounded context is at the heart of architecture.

- A. Tightly coupled monolith
- B. Microservices
- C. Client server
- D. Agile
- E. Emerging from trial and error

Answer: B

Question: 106

About the flow to design microservices architecture for Agile Development, which one is the correct answer?

- A. Requirement Gathering and analysis, System Design, Implementation, Integration and Testing, Deployment of system, Maintenance
- B. Code Repository, Build + Unit Test+Code Quality, Test Script.Test Suite, Provisioning to Containers, deploy as Microservices
- C. Design Thinking, Backlog, User Story Mapping, Epic, List of Microservices
- D. Requirement of Gathering and analysis as well as modular System Design per module, and then deploy applications to Cloud Provider

Answer: B

Question: 107

What is the benefit of microservices architecture? (The number of correct

answer: 4)

- A. Agile and Rapid Development of Business Functionalities
- B. Failure Isolation and Predictability
- C. Replaceability
- D. Agile Deployment and Scalability
- E. Service Governance

Answer: A, B, C, D

Question: 108

Which team will be responsible for deploying new features every release to Cloud Infrastructure in Cloud Native era? (The number of correct

answer: 2)

- A. DevOps
- B. SRE
- C. Developer
- D. QA
- E. Scrum Master

Answer: A, B

Question: 109

What are the benefits using Alibaba Cloud when implementing microservice architecture? (The number of correct

answer: 5)

- A. High availability with multi-zone redundancy to minimize business disruptions
- B. Easy to scale up or down (vertical or horizontal)
- C. Set up infrastructure and provision resources in less than 1 day

- D. No need for expert Database Administrators for setup & maintenance of database
- E. Fully monitor your infrastructure in real-time
- F. All resources that you used become free

Answer: A, B, C, D,E

Question: 110

How to design Microservices in monolith architecture? (The number of correct

answer: 4)

- A. Domain-Driven Design
- B. Decompose by Business capability
- C. Centralize all components(Authorization, Presentation, Business logic, Database layer) use singletiered software application combined into a single program from a single platform
- D. Divide and conquer
- E. Decompose by Subdomain

Answer: A, B, D, E

Question: 111

Choose the statements that are TRUE about Microservices architecture in microservice pattern? (The number of correct

answer: 2)

- A. All communications and business logic should use a middleware called ESB(enterprise service bus), so all service maintenance will be in one place.
- B. External applications should use API Gateway
- C. Communications from other applications should directly use Database PL/SQL, it will become efficient
- D. Communication in microservices architecture should use Proxy and VPN, and it will be more secured
- E. Use session from webservice for stateless Authentication R Use JSON Web Tokens(JWT) for stateless Authentication

Answer: A, B

Question: 112

Why need RDMA network in ML?

- A. That will accelerate speed communication between each node
- B. That will improve performance under ML job
- C. That will saving cost

Answer: B

Question: 113

GPU can be shared with multi-container on ACK to increase resource utilization.

- A. True
- B. False

Answer: A

Question: 114

Does ACK support GPU sharing?

- A. True
- B. False

Answer: A

Question: 115

Does GPU can be monitor by ARMS-Prometheus of alibaba cloud?

- A. True
- B. False

Answer: A

Question: 116

Does ACK support vGPU?

- A. True
- B. False

Answer: A

Question: 117

Does ACK support GPU resource autoscaling?

- A. True
- B. False

Answer: A

Question: 118

how many vGPU ratio has been supported on ACK

- A. 1:2
- C. 1:4
- C.1:8
- D. 1:16

Answer: A, B, C

Question: 119

Which type of AI/ML jobs schedules have been supported on ACK?

- A. FIFO
- B. Capacity
- C. Fair share
- D. Short job first

Answer: A, B, C

Question: 120

Which options are correct with ACK's distributed data cache?

- A. Accelerate remote data reading for AI training jobs, reduce GPU/CPU waiting time
- B. Supports different storage backends including OSS/HDFS/NAS
- C. Multiple cache layers including RAM/SSD/HDD
- D. Supports preload once, read by many jobs
- E. Supports Horizontal scaling

Answer: A, B, C, D, E

Question: 121

What key features are provided by AI/ML solutions?

- A. AI ML job lifecycle management
- B. Optimized scheduler for AI/ML jobs
- C. Unified heterogeneous resources management
- D. Accelerate computation with distributed data cache
- E. Auto Scaling

- F. GPU monitoring and problem detection
- G. Cost management

Answer: A, B, C, D, E,

F

Question: 122

Which type of GPU resource schedules have been supported on ACK?

- A. Gang
- B. Topology aware
- C. Spread
- D. Binpack
- E. Bundle

Answer: A, B, C, D, E

Question: 123

Which type of workloads can be running on ACK under AI/ML solution?

- A. AI
- B. DeepLearning
- C. Batching compute
- D. HPC

Answer: A, B, C

Question: 124

Which of the following options are correct about Arena?

- A. Arena is a CLI tools for machine learning achieve AI task scheduling
- B. Arena is a machine learning framework for AI
- C. Arena developed by alibaba cloud and contribute to kubeflow
- D. Arena developed by alibaba cloud and contribute to kubernetes

Answer: A, B, C

Question: 125

How Alibaba Cloud accelerate AI/ML on ACK?

- A. Composable workflow, support continuous training pipelines,
- B. Scale out training out to hundreds of nodes

- C. Support heterogeneous resources management, such as GPU, FPGA, RDMA.
- D. All resources are free

Answer: A, B, C

Question: 126

Which of the following options are correct about Cloud-native AI solution?

- A. It provides heterogeneous computing ability
- B. It supports major machine learning framework
- C. It can be running machine learning and HPC pipeline
- D. It can be autoscale
- E. It can achieve multi-version, multi-model management

Answer: A, B, D, E

Question: 127

What are the scenarios in managing multiple K8s Cluster in Hybrid & Multi Cloud Environment?

- A. Kubernetes Cluster Federation
- B. Auto Scaling to Serverless Kubernetes
- C. Register External Kubernetes Cluster to be managed from Alibaba Cloud Container Service Console
- D. Manage every clusters manually but to connect to the same image repository

Answer: A

Question: 128

To deploy Istio, at least worker nodes are configured for the Kubernetes cluster.

- A. 1
- B. 2
- C. 3
- D. 4

Answer: C

Question: 129

Istio is a service mesh that makes up for the disadvantages of the distributed microservice architecture in O&M, debugging, and security management. It also supports load balancing, service-to-service authentication, and monitoring, all without changes to microservices.

- A. True
- B. False

Answer: A

Question: 130

Does multi-cluster separate running on Alibaba Cloud and IDC can be managed by Federation?

- A. True
- C. False

Answer: A

Question: 131

Does k8s cluster running on IDC but it can be scale up pods to Alibaba Cloud ASK (Serverless cluster)

- A. True
- B. False

Answer: A

Question: 132

Does an agent need to be installed to target k8s cluster under register cluster solution?

- A. True
- B. False

Answer: A

Question: 133

Can ACK register k8s cluster which is running on IDC or other cloud provider?

- A. True
- B. False

Answer: A

Question: 134

To deploy Istio on ACK, the version of the Kubernetes cluster is V1.10.4 or later.

- A. True
- B. False

Answer: A

Question: 135

Does routes requests to the desired cluster based on DNS ability?

- A. True
- B. False

Answer: B

Question: 136

Mesh expansion is a method based on the Istio service mesh deployed on Kubernetes. With this method, you can integrate VMs or bare metal hosts into the service mesh.

- A. True
- B. False

Answer: A

Question: 137

Can both Federation and Istio achieve multi k8s cluster management?

- A. True
- B. False

Answer: A

Question: 138

Can Istio (service mesh) achieve application traffic management which is running on multi-cluster even in different regions?

- A. True
- B. False

Answer: A

Question: 139

Does ACK provide multi-cloud management solution?

- A. True
- B. False

Answer: A

Question: 140

Which of the following options are correct about scale up in Hybrid-cloud solution? (The number of correct answer: 3)

- A. The pods can be scale up to ASK (serverless cluster)
- B. The pods can be scale up to Virtual Node
- C. The pods can be scale up to normal worker nodes, such as ECS
- D. The pods can be scale up to Zero-load Node

Answer: A, C, D

Question: 141

Which services can also be used for register cluster? (The number of correct

answer: 3)

- A. Logservice
- B. ARMS
- C. ARMS-Prometheus
- D. Cloud Monitor

Answer: A, C, D

Question: 142

Which of the following options is incorrect?

- A. Alibaba Cloud ElasticSearch provide self-build Analyser
- B. Alibaba Cloud ElasticSearch cluster can be expanded
- C. Alibaba Cloud ElasticSearch cluster can be downsized
- D. You can ssh your Alibaba Cloud ElasticSearch cluster

Answer: B

Question: 143

When we use beats to collect Alibaba Cloud Kubernetes data, to what level should we deploy it?

- A. Deployment
- B. DaemonSet
- C. Sidecar
- D. StatefulSet

Answer: B

Question: 144

What kind of data we could collect to Alibaba Cloud ElasticSearch for monitoring App on Alibaba Cloud Kubernetes?

- A. Logs
- B. Metrics
- C. APM tracing
- D. All above

Answer: D

Question: 145

Which function do we use to automatically notify us of anomalies in the transactions?

- A. Log viewing
- B. Machine Learning Integrations
- C. Metrics usage
- D. Uptime

Answer: B

Question: 146

Customer could deploy ElasticSearch in various zones. Which of the following is not supported?

- A. In one zone
- B. In two zones
- C. In three zones
- D. In four zones

Answer: A

Question: 147

Which beat we use to pull data from promethues to Alibaba Cloud ElasticSearch for long term storage?

- A. Functionbeat
- B. Metricbeat
- C. Filebeat
- D. Packetbeat

Answer: C

Question: 148

Alibaba Cloud Elasticsearch is a Lucene-based, distributed, real-time search and analytics engine. It is an open-source product released under the Apache License.

- A. True
- B. False

Answer: A

Question: 149

If replicas in Alibaba Cloud Elasticsearch cluster are configured and nodes in one zone fail, the nodes in the remaining zones can still provide services without interruption.

- A. True
- C. False

Answer: A

Question: 150

Alibaba Cloud Elasticsearch allows you to deploy an Elasticsearch cluster across zones. In cross-zone deployment, the system automatically selects the zones that have sufficient ECS instances.

- A. True
- D. False

Answer: A

Question: 151

What information can be derived from APM traces in Elasticsearch? (The number of correct answer.

- A. Duration of transaction
- B. Flow of transaction
- C. Anomalies
- D. Transaction logs
- E. Data Schema

Answer: A BCD

Question: 152

Which of the following applications we could use Alibaba Cloud ElasticSearch to monitor and analysis? (The number of correct answer.

- A. Local K8S
- B. Alibaba Cloud Kubernetes
- C. Google Kubernetes Engine
- D. Azure Kubernetes Service
- E. AWS redshift

Answer: A BCD

Question: 153

Which of the following capabilities are Alibaba Cloud ElasticSearch provide for Alibaba Cloud Kubernetes? (The number of correct answer.

- A. Application monitoring
- B. Kubernetes monitoring
- C. Kubernetes Security
- D. Application management

Answer: A BD

Question: 154

At what levels can Kubernetes deployments be monitored? (The number of correct answer.

- A. Host
- B. Kubernetes Clusters
- C. Containers
- D. Services
- E. Hardware

Answer: A BCD

Question: 155

Which of the following features options has released on Alibaba Cloud Elasticsearch?

- A. Elasticsearch
- B. Kibana
- C. Grafana
- D. Logstash

Answer: BCD