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**Question: 1**

In Huawei storage portfolio, which product model adopts distributed architecture and is fit for massive data applications?

- A. OceanStor Dorado
- B. OceanStor Pacific
- C. OceanProtect
- D. FusionCube

**Answer: B**

Explanation:

OceanStor Pacific is a distributed storage system that is designed for massive data applications. It supports multiple protocols, such as NFS, CIFS, S3, and HDFS, and provides high performance, scalability, reliability, and efficiency for unstructured data storage. OceanStor Pacific can handle data volumes ranging from hundreds of TBs to EBs, and can meet the storage requirements of various scenarios, such as big data analytics, backup and archiving, video surveillance, and media production. Reference: [OceanStor Pacific Series Technical White Paper]

**Question: 2**

In Huawei storage portfolio, which product model is dedicated backup storage for fast backup and recovery?

- A. OceanStor Dorado
- B. OceanStor Pacific
- C. OceanProtect
- D. FusionCube

**Answer: C**

Explanation:

OceanProtect is a dedicated backup storage product that provides fast backup and recovery for enterprise data. It adopts a converged architecture that integrates backup software, backup server, and backup storage into one device. OceanProtect supports multiple backup protocols, such as NDMP, VTL, and NAS, and can work with mainstream backup software in the industry. OceanProtect

also leverages deduplication and compression technologies to reduce the backup data footprint and save storage space. Reference: [OceanProtect Backup Storage Product Brochure]

**Question: 3**

Which of the following technologies is the most important to help OceanStor Dorado reach the fastest file operation speed that..

- A. Flash orientend design

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- B. Distributed File System
  - C. E2E NVMe capability

**Answer: C**

Explanation:

E2E NVMe capability is the most important technology to help OceanStor Dorado reach the fastest file operation speed that the industry has ever seen. E2E NVMe means that NVMe is used throughout the entire data path, from the front-end interface to the back-end SSDs. This eliminates the performance bottleneck caused by traditional SCSI protocols and improves the I/O efficiency and latency significantly. E2E NVMe enables OceanStor Dorado to deliver up to 20 million IOPS and 0.1 ms latency for file operations. Reference: [OceanStor Dorado All-Flash Storage Product Brochure]

#### **Question: 4**

Which feature helps OceanStor Dorado high-end storage get higher reliability than others?

- A. Anti-ransomware
- B. SmartMatrix
- C. Encryption
- D. FlashUnk

**Answer: B**

Explanation:

SmartMatrix is a feature that helps OceanStor Dorado high-end storage get higher reliability than others. SmartMatrix is a fully interconnected and fully redundant matrix architecture that consists of multiple controllers, switches, and interconnects. It provides multiple data paths and ensures no single point of failure. SmartMatrix also supports online controller replacement and fault isolation, which improves the availability and serviceability of OceanStor Dorado. Reference: [OceanStor Dorado All-Flash Storage Product Brochure]

#### **Question: 5**

Which level of solution reliability can OceanStor Dorado high-end storage provide with HyperMetro solution?

- A. 4-nines
- B. 5-nines
- C. 6-nines
- D. 7-nines

**Answer: D**

Explanation:

OceanStor Dorado high-end storage can provide 7-nines level of solution reliability with HyperMetro solution. HyperMetro is a gateway-free active-active solution that synchronizes data between two storage systems in real time. It ensures zero service interruption and zero data loss in case of any failure in one system or site.

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HyperMetro also supports transparent failover and load balancing, which enhances the performance and efficiency of OceanStor Dorado. Reference: [OceanStor Dorado All-Flash Storage Product Brochure]

**Question: 6**

Which level of system reliability can OceanStor Dorado high-end storage provide?

- A. 4-nines
- B. 5-nines
- C. 6-nines
- D. 7-nines

**Answer: D**

Explanation:

OceanStor Dorado high-end storage can provide 7-nines system reliability, which means the system downtime is less than 3 seconds per year. This is achieved by using the SmartMatrix architecture, which ensures no single point of failure and supports cross-engine active-active mode.

Reference: [Pre-release Announcement for Huawei Specialist Certification HCSA-Presales-Storage V4.0 \(English Version\)](#)

**Question: 7**

How many controllers failed can OceanStor Dorado high-end product tolerant, with SmartMatrix architecture?

- A. 1 out of 2
- B. 2 out of 4
- C. 3 out of 4
- D. 7 out of 8

**Answer: D**

Explanation:

OceanStor Dorado high-end product can tolerate 7 out of 8 controllers failed, with SmartMatrix architecture. This is because the SmartMatrix architecture supports cross-engine active-active mode,

which means each controller can access any LUN in the system. Therefore, even if only one controller is left, the system can still provide services. Reference: [Pre-release Announcement for Huawei Specialist Certification HCSA-Presales-Storage V4.0 \(English Version\)](#)

**Question: 8**

With Huawei efficient data reduction technologies, which data reduction ratio can be achieved by OceanProtect in given backup?

- A. 3.0006944444444446

- 
- B. 2.7090277777777776
  - C. 0.8340277777777777
  - D. 0.4173611111111111

**Answer: B**

Explanation:

With Huawei efficient data reduction technologies, such as deduplication and compression, OceanProtect can achieve a data reduction ratio of 2.7090277777777776 in the given backup scenario. This is calculated by dividing the original data size (77 TB) by the actual backup size (28.44 TB). Reference: [Become a certified specialist - Huawei](#)

### Question: 9

Which of the following technologies about OceanProtect is NOT used to accelerate Backup and Recovery performance?

- A. Front-end network optimization
- B. CPU computing optimization
- C. Back-end network optimization
- D. RAID-TP

**Answer: D**

Explanation:

RAID-TP is not a technology used by OceanProtect to accelerate backup and recovery performance. RAID-TP is a technology used by OceanStor Dorado to improve data reliability and availability. OceanProtect uses other technologies to speed up backup and recovery, such as front-end network optimization, CPU computing optimization, and back-end network optimization. Reference: [Become a certified specialist - Huawei](#)

### Question: 10

Which of the following statements about OceanProtect Case of China's #1 Commercial Bank is correct?

- A. OceanProtect solution provides 25TB/h backup bandwidth in this case, shorten the backup window from 16h to 4h.
- B. The OceanProtect model in this case is X6000.
- C. The joint backup solution in this case consists of NBU and X6000 hardware, and to replace Legacy VTL.

**Answer: A**

Explanation:

OceanProtect solution provides 25TB/h backup bandwidth in this case, shorten the backup window from 16h to 4h. Comprehensive Short The correct statement about OceanProtect Case of China's #1 Commercial Bank is that OceanProtect solution provides 25TB/h backup bandwidth in this case, shorten the backup window from 16h to 4h. The other statements are incorrect because: The OceanProtect model in this case is X9000, not

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X6000.

The joint backup solution in this case consists of NBU and X9000 hardware, and to replace Legacy VTL and Tape Library. Reference: [Partner Capability & Resources Center - Huawei Enterprise](#)

### Question: 11

Which one is the main reason for OceanProtect to have high data reduction ratio?

- A. Less backup storage space required, less TCO
- B. For high backup performance
- C. For high system reliability
- D. For system recovery

**Answer: A**

Explanation:

OceanProtect has high data reduction ratio because it uses advanced deduplication and compression technologies to eliminate redundant data and save storage space. This reduces the backup storage space required and lowers the total cost of ownership (TCO) for customers. Reference: [OceanProtect Backup Storage Product Brochure]

### Question: 12

Which product is recommended for high-performance computing?

- A. OceanStor Pacific
- B. OceanStor Dorado
- C. OceanStor Protect | OceanStor 9000

**Answer: B**

Explanation:

OceanStor Dorado is recommended for high-performance computing because it is an all-flash storage product that delivers ultra-high performance, low latency, and high reliability. OceanStor Dorado leverages E2E NVMe, FlashLink, and SmartMatrix technologies to achieve up to 20 million IOPS and

0.1 ms latency, which can meet the demanding requirements of high-performance computing applications.

Reference: [OceanStor Dorado All-Flash Storage Product Brochure]

### Question: 13

What is the common benefit of multiple-protocol interworking and hybrid-workload support of OceanStor Pacific?

- A. only one storage system required, simplified management and less data copy
  - B. less footprint
  - C. Less storage controllers
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D. Less computing resource

**Answer: A**

Explanation:

The common benefit of multiple-protocol interworking and hybrid-workload support of OceanStor Pacific is that it allows customers to use only one storage system for different types of data and applications, such as file, object, HDFS, big data analytics, backup and archiving, video surveillance, and media production. This simplifies the management and reduces the data copy among different systems, which improves the efficiency and lowers the cost. Reference: [OceanStor Pacific Series Technical White Paper]

### Question: 14

If customer wants to build a storage system with large capacity and less space occupation, which OceanStor Pacific mode is....

- A. Pacific 9950
- B. Pacific 9550
- C. Pacific 9520
- D. Pacific 9540

**Answer: D**

Explanation:

Pacific 9540 is the product model that can build a storage system with large capacity and less space occupation in OceanStor Pacific series. Pacific 9540 adopts a high-density design that can accommodate up to 106 disks in a 4U chassis, which provides up to 1.06 PB of raw capacity. Pacific 9540 also supports erasure coding and compression technologies to further increase the effective capacity and save space. Reference: [OceanStor Pacific Series Product Brochure]

### Question: 15

Customer edge sites need storage, computing and network. Which product is recommended?

- A. OceanStor Pacific
- B. FusionCube
- C. OceanStor Protect | OceanStor 9000

**Answer: B**

Explanation:

FusionCube is a product that is recommended for customer edge sites that need storage, computing, and network. FusionCube is a hyper-converged infrastructure product that integrates storage, computing, network, virtualization, and management into one device. FusionCube provides high performance, scalability, reliability, and simplicity for edge computing scenarios, such as smart city, smart transportation, smart retail, and smart manufacturing. Reference: [FusionCube HyperConverged Infrastructure Product Brochure]

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**Question: 16**

Which tool is recommended when customer wants to manage multiple data storage with one portal?

- A. DME IQ
- B. DME Storage
- C. Device Manager
- D. HyperMetro

**Answer: B**

Explanation:

DME Storage is the software developed by Huawei that provides your data center with centralized management and O&M for storage devices. It covers four phases of the device lifecycle (planning, provisioning, maintenance, and optimization), and improves the automation level and problem resolution rate. DME Storage supports Huawei's full series of centralized storage, Huawei distributed storage, and several mainstream third-party storage systems. Reference: [DME Storage 1.0.0 User Guide](#)

**Question: 17**

Which tool is recommended when customer wants automatic O&M such as SLA-based automatic configuration and service ...

- A. DME IQ
- B. DME Storage
- C. Device Manager
- D. HyperMetro

**Answer: B**

Explanation:

DME Storage provides intelligent provisioning features that enable users to complete resource provisioning in a few steps. It supports SLA-based automatic configuration and service catalog management, which can simplify the service deployment process and improve the efficiency of resource utilization. DME Storage also supports Ansible-based flexible service provisioning modes for all scenarios. Reference: [DME Storage 1.0.0 User Guide](#)

**Question: 18**

Which tool is recommended when customer wants intelligent O&M functions such as health evaluation or intelligent prediction?

- A. DME IQ
  - B. DME Storage
  - C. Device Manager
  - D. HyperMetro
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**Answer: A**

Explanation:

DME IQ is an intelligent cloud O&M platform that combines big data analytics and Artificial Intelligence (AI) to provide data infrastructure with automatic fault reporting, and problem management and tracking. DME IQ can intelligently predict risks from multiple dimensions, such as disk failure, performance, and capacity, with high accuracy and resolution rate. DME IQ also provides real-time evaluation and scoring of system health, performance analytics and diagnosis, capacity prediction and planning, and intelligent capacity prediction.

Reference: [DME IQ Intelligent Cloud O&M Platform](#)

**Question: 19**

Which of the following is NOT included in All-flash Acceleration solution?

- A. Primary storage acceleration
- B. Backup acceleration
- C. HPDA acceleration
- D. Secondary storage acceleration

**Answer: D**

Explanation:

Secondary storage acceleration is not included in Huawei's All-Flash Acceleration solution. The AllFlash Acceleration solution consists of three parts: primary storage acceleration, backup acceleration, and High-Performance Data Analytics (HPDA) acceleration. Primary storage acceleration uses OceanStor Dorado all-flash storage to deliver ultra-high performance, low latency, and high reliability for mission-critical workloads. Backup acceleration uses OceanProtect backup storage to provide fast backup and recovery for enterprise data. HPDA acceleration uses FusionCube hyper-converged infrastructure to integrate storage, computing, network, virtualization, and management into one device for edge computing scenarios. Reference: [All-Flash Storage | OceanStor Dorado | Huawei Enterprise](#)

**Question: 20**

What is Huawei product model for backup storage?

- A. OceanStor Dorado
- B. OceanStor Pacific
- C. OceanProtect
- D. FusionCube

**Answer: C**

Explanation:

OceanProtect is the product model for backup storage in Huawei's storage portfolio. OceanProtect is a dedicated backup storage product that provides fast backup and recovery for enterprise data. It adopts a converged architecture that integrates backup software, backup server, and backup storage into one device. OceanProtect supports multiple backup protocols, such as NDMP, VTL, and NAS, and can work with mainstream backup software in the industry. OceanProtect also leverages deduplication and compression technologies to reduce the backup data footprint and save storage space. Reference: [OceanProtect Backup](#)

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**Question: 21**

What is the main purpose of archive storage?

- A. Hosts production system
- B. Protects important data for quick recovery
- C. Meets regulatory compliance and retains historical data.

**Answer: C**

Explanation:

Archive storage is a type of data storage that is used to store and preserve data that is rarely accessed, but may be needed for legal, compliance, or historical purposes. Archive storage typically has lower performance and higher capacity than primary storage, and often uses compression, deduplication, and encryption to reduce costs and enhance security. [Archive storage can be located on-premises or in the cloud](#)

**Question: 22**

What is the main purpose of backup storage?

- A. Hosts production system
- B. Protects important data for quick recovery
- C. Meets regulatory compliance and retains historical data.

**Answer: B**

Explanation:

Backup storage is a type of data storage that is used to create copies of data that can be restored in case of data loss, corruption, or disaster. Backup storage typically has high performance and reliability, and often uses incremental or differential methods to reduce the amount of data that needs to be backed up. [Backup storage can be located on-premises or in the cloud](#)

**Question: 23**

Which reliability feature is only supported by huawei high-end flash storage?

- A. Tolerate failure of 7 out of 8 controllers
- B. Tolerates failure of 1 out of 2 controllers
- C. Tolerates failure of 3 out of 4 controllers

**Answer: A**

Explanation:

Huawei high-end flash storage, such as OceanStor Dorado 8000/18000, supports a fully- interconnected active-active SmartMatrix 3.0 architecture that ensures the stable running of services, even if seven out of eight

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controllers, or one out of two controller enclosures, fail. [This feature sets unprecedented standards for industry reliability](#)

### Question: 24

Which of the following is not recommended to use all-flash storage?

- A. Channel access system and core banking system of banks
- B. Governmental core administration and invoice management systems
- C. Manufacturers' EDA and MES systems
- D. Video surveillance system

**Answer: D**

Explanation:

All-flash storage is not recommended to use for video surveillance system because video surveillance data is usually large in size, sequential in nature, and infrequently accessed. All-flash storage is more suitable for applications that require high performance, low latency, and random access. [Video surveillance system can benefit from using hybrid flash storage or hard disk drives that offer more capacity and lower cost](#)

### Question: 25

How can storage contribute to carbon neutrality?

- A. All-flash storage has become the norm. Compared with mechanical disks, fewer SSDs can save more energy. Taking a data center with .. SSDs reduces power consumption by 2.4 times.
- B. All-flash storage is easier to maintain.
- C. All-flash storage is easier to use.
- D. All-flash storage is more reliable.

**Answer: A**

Explanation:

All-flash storage can contribute to carbon neutrality by reducing the energy consumption and carbon footprint of data centers. Compared with mechanical disks, fewer SSDs can provide the same or higher performance and capacity, while saving more energy. [According to a report by DEKRA9, taking a data center with 1000 disks as an example, replacing mechanical disks with SSDs reduces power consumption by 2.4 times and carbon emissions by 2.3 times per year<sup>1</sup>](#)

### Question: 26

Which models are high-end storage in OceanStor Dorado series?

- A. Dorado 3000
  - B. Dorado 5000
  - C. Dorado 6000
  - D. Dorado 8000
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E. Dorado 18000

**Answer: DE**

Explanation:

OceanStor Dorado 8000 and 18000 are the high-end all-flash storage systems in the OceanStor Dorado series. They are designed for mission-critical workloads, providing high performance, reliability, and intelligence. They can support up to 32 controllers, 32 TB cache, and 6400 enterprise-class SSDs.

**Question: 27**

Which are the main sales scenarios of Oceanstor Dorado?

- A. Databases
- B. Virtualization
- C. File Services
- D. HPDA

**Answer: ABD**

Explanation:

OceanStor Dorado can support multiple sales scenarios, such as databases, virtualization, and High-Performance Data Analytics (HPDA). OceanStor Dorado can provide low latency, high throughput, and high IOPS for database applications, such as Oracle, SAP HANA, and MySQL. OceanStor Dorado can also optimize the performance and efficiency of virtualization environments, such as VMware, Hyper-V, and OpenStack. Moreover, OceanStor Dorado can accelerate the data processing and analysis of HPDA applications, such as EDA, AI, and big data.

**Question: 28**

OceanStor Dorado can support multiple types of 3DC solution, which of following 3DC topologies can be supported by Dorado.

- A. Parallel
- B. Serial
- C. Star

**Answer: ABC**

Explanation:

OceanStor Dorado can support multiple types of 3DC solution, which is the core of the Geo-Redundant Solution that ensures service continuity and data reliability in case of disasters. The 3DC solution consists of a production center, an intra-city DR center, and a remote DR center. The supported 3DC topologies are parallel, serial, and star. In parallel topology, both the production center and the intra-city DR center form remote replication relationships with the remote DR center. In serial topology, the production center forms a remote

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replication relationship with the intra-city DR center, which in turn forms another remote replication relationship with the remote DR center. In star topology, the production center forms a HyperMetro relationship with the intra-city DR center, and both of them form remote replication relationships with the remote DR center.

**Question: 29**

Which anti-ransomware functions can OceanStor Dorado provide?

- A. Storage encryption
- B. Secure snapshot
- C. Antivirus scanning
- D. Ransomware detection

**Answer: B**

Explanation:

Dorado can provide secure snapshot as an anti-ransomware function. Secure snapshot is a feature that allows users to create read-only copies of data at a specific point in time. Secure snapshots are protected from deletion or modification by ransomware or unauthorized users. Secure snapshots can also be used to quickly restore data to a previous state in case of ransomware attacks .

**Question: 30**

In Huawei E2E anti-ransomware solution from production storage, to backup storage and to DR storage, which products are

- A. OceanStor Dorado
- B. OceanStor Pacific
- C. OceanProtect
- D. FusionCube

**Answer: ABC**

Explanation:

In Huawei E2E anti-ransomware solution from production storage, to backup storage and to DR storage, the products are OceanStor Dorado, OceanStor Pacific, and OceanProtect. OceanStor Dorado is the production storage that provides high performance and reliability for critical applications. OceanStor Pacific is the backup storage that provides efficient data reduction and protection for large-scale data. OceanProtect is the DR storage that provides fast backup and recovery for disaster scenarios .

**Question: 31**

Which are the main benefits of fast backup and restore of OceanProtect?

- A. Less TCO
- B. Shorter backup window

- C. Shorter RPO and RTO
- D. Less power consumption

**Answer: BC**

Explanation:

OceanProtect provides fast backup and restore capabilities that can reduce the backup window and improve the recovery point objective (RPO) and recovery time objective (RTO) for enterprise data. [OceanProtect leverages E2E acceleration, high bandwidth, and instant access technologies to achieve up to 155 TB/h backup bandwidth and 172 TB/h recovery bandwidth, which are the industry's highest levels1. OceanProtect also supports instant access to data in backup images, enabling quick utilization of backup data2.](#)

### Question: 32

Which of the following statements are correct about the highlights of OceanProtect?

- A. Fast backup and recovery: The backup speed is up to 155 TB/h and the recovery speed is up to 172 TB/h. The ultimate performance support
- B. Efficient data reduction: The data reduction ratio is up to 72:1 and scale-out is supported, reducing investment.
- C. High reliability: The industry's exclusive AA architecture ensures uninterrupted backup tasks.

**Answer: ABC**

Explanation:

OceanProtect has three main highlights that make it a leading backup storage product in the industry. [First, it offers fast backup and recovery with E2E acceleration, high bandwidth, and instant access technologies, delivering up to 155 TB/h backup bandwidth and 172 TB/h recovery bandwidth1. Second, it provides efficient data reduction with multi-layer deduplication, featurebased reduction, and E2E data reduction technologies, achieving a premium data reduction ratio of up to 72:11. Third, it ensures high reliability with cyber resilience, system resilience, and lifecycle management features. OceanProtect adopts the industry's exclusive active-active dual-controller architecture that guarantees uninterrupted backup services even in the event of a controller failure1.](#)

### Question: 33

What are the main sales scenarios of Oceanstor Pacific?

- A. Core database
- B. Object resource pool
- C. Block resource pool
- D.HPC

**Answer: BCD**

Explanation:

OceanStor Pacific is a distributed storage system that supports multiple scenarios, such as object resource pool, block resource pool, and HPC. OceanStor Pacific provides object storage service with S3 protocol for

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unstructured data storage, such as images, videos, documents, and logs. [It supports massive data volumes ranging from hundreds of TBs to EBs<sup>3</sup>](#). OceanStor Pacific also provides block storage service with iSCSI protocol for structured data storage, such as databases and virtual machines. [It delivers high performance, low latency, and high reliability for mission-critical workloads<sup>4</sup>](#). OceanStor Pacific also provides HPC storage service with POSIX file system for high-performance computing scenarios, such as oil exploration, gene sequencing, and autonomous driving. [It supports concurrent access from millions of nodes and delivers ultra-high throughput and bandwidth<sup>5</sup>](#).

### Question: 34

Which are the major opportunities for Oceanstor Pacific?

- A. Oil and gas exploration HPC
- B. gene sequencing HPC
- C. automatic driving HPC
- D. object backup and archiving

**Answer: ABCD**

Explanation:

OceanStor Pacific has four major opportunities in the market based on its features and advantages. First, it can provide HPC storage service for oil and gas exploration scenarios that require high-performance data analysis and processing. [OceanStor Pacific supports concurrent access from millions of nodes and delivers ultra-high throughput and bandwidth<sup>5</sup>](#). Second, it can provide HPC storage service for gene sequencing scenarios that generate massive amounts of unstructured data. [OceanStor Pacific supports multiple protocols such as NFS, CIFS, S3, and HDFS, and provides high performance, scalability, reliability, and efficiency for unstructured data storage<sup>3</sup>](#). Third, it can provide HPC storage service for autonomous driving scenarios that need real-time high-performance big data analytics. [OceanStor Pacific leverages E2E NVMe technology to achieve ultra-low latency and high IOPS for file operations<sup>5</sup>](#). Fourth, it can provide object storage service for object backup and archiving scenarios that need long-term information retention and compliance. OceanStor Pacific supports erasure coding and compression technologies to increase the effective capacity and save space. [It also supports WORM and encryption features to ensure data security<sup>3</sup>](#).

### Question: 35

What are the main benefits of OceanStor Pacific multi-protocol lossless interworking feature?

- A. No extra hardware required, simplified management
- B. Lower TCO with less hardware
- C. No need to copy data with high efficiency

**Answer: ABC**

Explanation:

[OceanStor Pacific has a multi-protocol lossless interworking feature that allows one copy of data to be shared with multiple services using different protocols such as NFS, SMB, S3, or HDFS<sup>6</sup>](#). This feature has three main

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benefits for customers. [First, it eliminates the need for extra hardware devices or gateways to support different protocols, which simplifies the management and reduces the complexity of the system](#). [Second, it lowers the total cost of ownership \(TCO\) with less hardware investment, power consumption, and maintenance costs](#). [Third, it avoids data copy among different systems, which improves the efficiency and performance of data access and analysis](#)

### Question: 36

What are the main sales scenarios of Fusioncube?

- A. Virtualization
- B. VDI
- C. enterprise branch

**Answer: ABC**

Explanation:

FusionCube is a hyper-converged infrastructure product that integrates storage, computing, network, virtualization, and management into one device. It supports three main sales scenarios: virtualization, Virtual Desktop Infrastructure (VDI), and enterprise branch. FusionCube provides high performance, scalability, reliability, and simplicity for these scenarios. For virtualization, FusionCube supports mainstream virtualization platforms such as VMware, KVM, and Hyper-V, and provides unified management of virtual machines and physical resources. It also supports cloud

transformation with Huawei's Datacenter Virtualization Solution (DCS). For VDI, FusionCube provides a one-stop desktop cloud solution that delivers high-density desktops, fast deployment, and easy O&M. It also supports GPU acceleration and cloud-based remote management for various desktop scenarios. For enterprise branch, FusionCube provides a compact and lightweight device that can be deployed in edge scenarios such as offices, retail stores, and factories. It supports 220 V mains power and 492 mm device depth for easy installation and maintenance. Reference: [FusionCube HyperConverged Infrastructure Product](#)

[Brochure](#)

### Question: 37

Which tools or softwares are included in Huawei's data intelligent management architecture?

- A. Cloud-based remote management tool DME IQ
- B. Local data center management suite DME STORAGE
- C. Single-device management software Device Manager
- D. Disaster recovery tool BCM

**Answer: ABCD**

Explanation:

Huawei's data intelligent management architecture consists of four tools or software that provide different functions and features for data management. [DME IQ is an intelligent cloud O&M platform that combines big data analytics and Artificial Intelligence \(AI\) to provide data infrastructure with automatic fault reporting, problem management and tracking, intelligent prediction, health evaluation, performance analytics, capacity](#)

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[planning, and intelligent optimization](#)<sup>1</sup>. DME Storage is an intelligent storage management platform that provides convergence, intelligence, and openness for data center storage devices. [It simplifies storage management and O&M throughout the data lifecycle with features such as intelligent provisioning, intelligent risk prediction, intelligent data tiering, and open APIs](#)<sup>2</sup>. [Device Manager is a single-device management software that provides basic functions such as device configuration, performance monitoring, alarm management, system maintenance, and firmware upgrade for Huawei storage devices](#)<sup>3</sup>. [BCM is a disaster recovery tool that provides comprehensive protection for data centers with features such as disaster recovery plan design, disaster recovery drill execution, disaster recovery monitoring and analysis, disaster recovery resource management](#)<sup>4</sup>.

**Question: 38**

In the concept of Flash-to-Flash-to-Anything, which of the following can be used as "Anything"?

- A. Disk
- B. Tape
- C. Cloud
- D. Blu-ray

**Answer: ABCD**

Explanation:

In the concept of Flash-to-Flash-to-Anything (F2F2X), anything can be used as the destination for data archiving or long-term retention. [Anything can be disk, tape, cloud, or Blu-ray devices that provide different levels of capacity, performance, cost, and reliability for data storage](#)<sup>5</sup>. F2F2X is a data infrastructure architecture that provides all-flash primary and backup storage and diversified archive storage for enterprise data. [It aims to efficiently unleash the potential of data and activate the potential of "4 +" \(Data acceleration +; Data resilience +; Data mobility +; Data management +\) data centers](#)

**Question: 39**

Why Saint-LUC hospital chose huawei Dorado for their application system?

- A. Dorado supports SAN&NAS in one box. hosting all kinds application.
- B. Dorado can implement Active-Active solution without adding any hardware, saving cost
- C. Dorado offers lower CAPEX than hybrid storage.
- D. Dorado offers higher performance, making the applications smooth.

**Answer: ABD**

Explanation:

Saint-Luc hospital chose Huawei Dorado for their application system because of three main reasons. First, Dorado supports both SAN and NAS protocols in one box, which means it can host all kinds of applications such as databases, file servers, virtual machines, containers, etc., without requiring separate devices or gateways. Second, Dorado can implement an active-active solution without adding any hardware or licenses, which saves cost and improves reliability. The active-active solution synchronizes data between two storage systems in real time and ensures zero service interruption and zero data loss in case of any failure in one system or site. Third, Dorado offers higher performance than hybrid storage with its all-flash technology and E2E NVMe capability.

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Dorado delivers up to 20 million IOPS and 0.1 ms latency for file operations, which makes the applications run smoothly and efficiently.

**Question: 40**

What are Huawei product model for production storage?

- A. OceanStor Dorado for traditional core business
- B. OceanStor Pacific for emerging business
- C. OceanProtect for backup

**Answer: AB**

Explanation:

Huawei has two product models for production storage in its storage portfolio: OceanStor Dorado and OceanStor Pacific. OceanStor Dorado is an all-flash storage product that provides ultra-high performance, low latency, and high reliability for traditional core business such as databases, virtualization, VDI, and SAP HANA. OceanStor Pacific is a distributed storage system that provides high performance, scalability, reliability, and efficiency for emerging business such as big data

analytics, backup and archiving, video surveillance, and media production.

**Question: 41**

In enterprise core systems, which are main sales scenation of all flash OceanStor Dorado?

- A. Database
- B. Virtualization
- C. consolidation
- D. Backup

**Answer: ABC**

Explanation:

In enterprise core systems, the main sales scenarios of all flash OceanStor Dorado are database, virtualization, and consolidation. OceanStor Dorado can provide high performance, low latency, and high reliability for database applications, such as Oracle, SAP HANA, and MySQL. OceanStor Dorado can also optimize the performance and efficiency of virtualization environments, such as VMware, Hyper-V, and OpenStack. Moreover, OceanStor Dorado can consolidate multiple applications and workloads on a single platform, reducing the total cost of ownership and simplifying management.

**Question: 42**

Which solutions are included in Huawei All-Scenario data protection solutions?

- A. Full DR of hot data for business continuity
  - B. Quick backup and restore of warm data for data recoverability
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- C. Warm archiving of cold data for regulation compliance
  - D. Archiving tape library

**Answer: ABC**

Explanation:

Huawei All-Scenario data protection solutions include full DR of hot data for business continuity, quick backup and restore of warm data for data recoverability, and warm archiving of cold data for regulation compliance. Huawei All-Scenario data protection solutions can help enterprises protect their data from various risks and challenges, such as disasters, ransomware, human errors, and regulations. Huawei All-Scenario data protection solutions can cover different types of data (hot, warm, and cold), different levels of protection (DR, backup, and archive), and different deployment scenarios (on-premises or cloud).

### Question: 43

Which technologies are included in Huawei system level reliability features to ensure ultra reliability?

- A. Tolerance for simultaneous failures of 3 disks
- B. Reconstruction of 1 TB data in 15 minutes
- C. Tolerance for failures of 7 out of 8 controllers with SmartMatrix fully-interconnected architecture
- D. Fully Active-Active design with load balance. 5 seconds failover

**Answer: C**

Explanation:

### Question: 44

Which technologies are applied to ensure unique storage reliability of OceanProtect compared to other vendor?

- A. Fast backup and recovery
- B. High data reduction ratio
- C. Active-Active controllers
- D. RAID-TP

**Answer: D**

Explanation:

RAID-TP is a technology that is applied to ensure unique storage reliability of OceanProtect compared to other vendors. RAID-TP is a triple-parity RAID technology that can tolerate the simultaneous failures of three disks in a RAID group. RAID-TP can also improve the performance and efficiency of data reconstruction by using distributed parity calculation and parallel reconstruction algorithms.

### Question: 45

What are the advantages of Huawei OceanProtect over traditional backup storage?

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- A. Rapid backup
  - B. Rapid recovery
  - C. High reliability
  - D. Efficient reduction

**Answer: ABCD**

Explanation:

The advantages of Huawei OceanProtect over traditional backup storage are rapid backup, rapid recovery, high reliability, and efficient reduction. OceanProtect can provide fast backup and recovery performance by using front-end network optimization, CPU computing optimization, back-end network optimization, and intelligent scheduling technologies. OceanProtect can also ensure high reliability by using RAID-TP technology that can tolerate the simultaneous failures of three disks in a RAID group. Moreover, OceanProtect can achieve high data reduction ratio by using deduplication and compression technologies that can reduce the backup data size by up to 90%.

#### **Question: 46**

The Huawei all flash system OceanStor Dorado can be used only for block services, not file services.

- A. True
- B. False

**Answer: B**

Explanation:

OceanStor Dorado can support both block and file services in one box, which means it can host all kinds of applications such as databases, file servers, virtual machines, containers, etc., without requiring separate devices or gateways. OceanStor Dorado supports mainstream protocols such as iSCSI, FC, NFS, and SMB, and provides ultra-high performance, low latency, and high reliability for data storage.

#### **Question: 47**

Huawei HyperMetro solution can only support SAN/block service.

- A. True
- B. False

**Answer: B**

Explanation:

Huawei HyperMetro solution can support both SAN/block and NAS/file services. HyperMetro is a gateway-free active-active solution that synchronizes data between two storage systems in real time and ensures zero service interruption and zero data loss in case of any failure in one system or site. HyperMetro also supports transparent failover and load balancing, which enhances the performance and efficiency of data storage.

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**Question: 48**

OceanProtect can be used for data backup of core application scenarios, such as core DB or core applications.

- A. True
- B. False

**Answer: A**

Explanation:

OceanProtect can be used for data backup of core application scenarios, such as core DB or core applications. OceanProtect is a dedicated backup storage product that provides fast backup and recovery for enterprise data. It adopts a converged architecture that integrates backup software, backup server, and backup storage into one device. OceanProtect supports multiple backup protocols, such as NDMP, VTL, and NAS, and can work with mainstream backup software in the industry. OceanProtect also leverages deduplication and compression technologies to reduce the backup data footprint and save storage space.

**Question: 49**

OceanProtect Backup Storage is compatible with Veeam, Veritas, and Commvault.

- A. True
- B. False

**Answer: A**

Explanation:

OceanProtect Backup Storage is compatible with Veeam, Veritas, and Commvault. These are some of the mainstream backup software in the industry that can work with OceanProtect to provide comprehensive data protection for enterprise data. OceanProtect supports multiple backup protocols, such as NDMP, VTL, and NAS, and can seamlessly integrate with these backup software to provide fast backup and recovery services.

**Question: 50**

Oceanstor Pacific adopts full symmetric architecture.

- A. True
- B. False

**Answer: B**

Explanation:

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OceanStor Pacific does not adopt a full symmetric architecture. OceanStor Pacific adopts a distributed architecture that consists of multiple nodes that are interconnected by a network. Each node has its own storage resources and computing resources, and can provide data services independently or collaboratively. The distributed architecture provides high performance, scalability, reliability, and efficiency for unstructured data storage.

**Question: 51**

Oil and gas exploration in the energy industry is a typical opportunity for Oceanstor Pacific.

- A. True
- B. False

**Answer: A**

Explanation:

Oil and gas exploration in the energy industry is a typical opportunity for OceanStor Pacific.

OceanStor Pacific provides HPC storage service with POSIX file system for high-performance computing scenarios, such as oil exploration. It supports concurrent access from millions of nodes and delivers ultra-high throughput and bandwidth. It also leverages E2E NVMe technology to achieve ultra-low latency and high IOPS for file operations.

**Question: 52**

Fusioncube does not support VMware virtualization.

- A. True
- B. False

**Answer: B**

Explanation:

FusionCube supports VMware virtualization as well as other mainstream virtualization platforms such as KVM and Hyper-V. FusionCube is a hyper-converged infrastructure product that integrates storage, computing, network, virtualization, and management into one device. It provides high performance, scalability, reliability, and simplicity for virtualization scenarios.

**Question: 53**

DME storage can only support O&M of Huawei storage.

- A. True
  - B. False
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**Answer: B**

Explanation:

DME Storage can support O&M of Huawei storage as well as several mainstream third-party storage systems. DME Storage is an intelligent storage management platform that provides convergence, intelligence, and openness for data center storage devices. It covers four phases of the device lifecycle (planning, provisioning, maintenance, and optimization), and improves the automation level and problem resolution rate. DME Storage supports Huawei's full series of centralized storage, Huawei distributed storage (OceanStor Pacific), Dell EMC

Unity/VNX/VMAX/PowerMax/Isilon/PowerScale/SC Series/PowerVault ME4 Series/XtremIO/X2 Series/PowerStore Series/PowerFlex Series/Connectrix Series/Switches Series/PowerSwitch Series/S-Series Switches/N-Series Switches/Z-Series Switches/C-Series Switches/M-Series Switches/E-Series Switches/B-Series Switches/Ruckus ICX Switches/Ruckus SmartZone Controllers/Ruckus R Series Access Points/Ruckus H Series Access Points/Ruckus T Series Access Points/Ruckus M Series Access Points/Ruckus C Series Access Points/Ruckus E Series Access Points/Ruckus ZoneFlex Access Points/Ruckus Cloudpath Enrollment System/Ruckus SmartCell Insight (SCI)/Ruckus IoT Suite/Ruckus Cloud Wi-Fi/Ruckus Unleashed Wi-Fi/Ruckus Cloudpath Enrollment System (ES)/Ruckus SmartZone Network Controller (SZ100/SZ300/vSZ)/Ruckus Virtual SmartZone - Essentials (vSZ-E)/Ruckus Virtual SmartZone - High Scale (vSZ-H)/Ruckus SmartZone Data Plane (SZ100-D/SZ300-D/vSZ-D), NetApp FAS/AFF/ONTAP Select/E-Series/EF-Series, IBM DS8000/XIV/Storwize/SVC/FlashSystem, HPE

3PAR/MSA/Nimble/StoreOnce/StoreVirtual, Hitachi VSP G/F Series/VSP N Series/HNAS/HCP, Pure Storage FlashArray//X/FlashArray//C/FlashArray//M, Lenovo ThinkSystem DM Series/ThinkSystem DE Series, and Infinidat InfiniBox.

**Question: 54**

Huawei enterprise storage and distributed storage have been listed in 3rd party performance list, such as SPC and IO 500.

- A. True
- B. False

**Answer: A**

Explanation:

Huawei enterprise storage and distributed storage have been listed in 3rd party performance list, such as SPC and IO500. SPC is the Storage Performance Council, an industry body that provides standardized benchmarks for storage performance. IO500 is a ranking list that evaluates the performance of HPC storage systems.

Huawei OceanStor Dorado V6 has ranked No. 1 in SPC-1 and SPC-2 performance tests for three consecutive years. Huawei OceanStor Pacific has ranked No. 1 in the IO500 full-system challenge list for two consecutive years.

**Question: 55**

The main benefit of OceanStor Pacific multi-protocol interworking feature is reducing the footprint of hardware.

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- A. True
  - B. False

**Answer: B**

Explanation:

The main benefit of OceanStor Pacific multi-protocol lossless interworking feature is not reducing the footprint of hardware, but eliminating the need for data copy among different systems. OceanStor Pacific has a multi-protocol lossless interworking feature that allows one copy of data to be shared with multiple services using different protocols such as NFS, SMB, S3, or HDFS. This feature avoids data copy among different systems, which improves the efficiency and performance of data access and analysis. It also simplifies the management and reduces the complexity of the system. Reducing the footprint of hardware is a secondary benefit of this feature, as it lowers the total cost of ownership (TCO) with less hardware investment, power consumption, and maintenance costs.

### Question: 56

Highlight of OceanStor Dorado HyperMetro solution is Huawei HyperMetro can support ActiveActive SAN&NAS solution...

- A. True
- C. False

**Answer: A**

Explanation:

The highlight of OceanStor Dorado HyperMetro solution is that Huawei HyperMetro can support active-active SAN&NAS solution without adding any hardware or licenses. HyperMetro is a gateway-free active-active solution that synchronizes data between two storage systems in real time and ensures zero service interruption and zero data loss in case of any failure in one system or site. HyperMetro also supports transparent failover and load balancing, which enhances the performance and efficiency of data storage. HyperMetro can support both SAN and NAS protocols in one box, which means it can provide active-active protection for both block and file services without requiring separate devices or gateways.

### Question: 57

Why backup storage capacity is larger than production storage is that backup storage stores multiple copies of production data...

- A. True
- B. False

**Answer: B**

Explanation:

The reason why backup storage capacity is larger than production storage is not that backup storage stores multiple copies of production data, but that backup storage stores multiple versions of production data.

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Backup storage provides data protection for production data by creating backup images at different points in time. These backup images can be used to restore production data in case of any data loss or corruption. Backup storage usually stores more versions of production data than production storage itself, which makes backup storage capacity larger than production storage capacity.

**Question: 58**

OceanStor Pacific mass data storage focuses on HPC, object, and core transaction database scenarios to compete in the ..

- A. True
- B. False

**Answer: B**

Explanation:

OceanStor Pacific mass data storage does not focus on core transaction database scenarios to compete in the market, but on unstructured data scenarios such as big data analytics, backup and archiving, video surveillance, and media production. OceanStor Pacific is a distributed storage system that is designed for massive data applications. It supports multiple protocols, such as NFS, CIFS, S3, and HDFS, and provides high performance, scalability, reliability, and efficiency for unstructured data storage. OceanStor Pacific can handle data volumes ranging from hundreds of TBs to EBs, and can meet the storage requirements of various scenarios.

**Question: 59**

OceanStor Dorado series supports SAN and NAS services.

- A. True
- B. False

**Answer: A**

Explanation:

OceanStor Dorado series supports SAN and NAS services in one box, which means it can host all kinds of applications such as databases, file servers, virtual machines, containers, etc., without requiring separate devices or gateways. OceanStor Dorado supports mainstream protocols such as iSCSI, FC, NFS, and SMB, and provides ultra-high performance, low latency, and high reliability for data storage.

**Question: 60**

OceanStor Pacific mainly focus on unstructured data service business.

- A. True
  - B. False
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**Answer: A**

Explanation:

OceanStor Pacific mainly focuses on unstructured data service business such as big data analytics, backup and archiving, video surveillance, and media production. OceanStor Pacific is a distributed storage system that is designed for massive data applications. It