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Vendor: Cisco

Exam Code: 700-602

Exam Name: UCS Invicta for System Engineers

Version: Demo

QUESTION 1

Which three options are three characteristics of Cisco UCS Invicta interfaces and bonds? (Choose three.)

- A. Bond 0 is used for management.
- B. A bond can blend both Ethernet and Fibre Channel interfaces.
- C. 10 Gigabit Ethernet interfaces can be independent or aggregated into a bond.
- D. iSCSI interfaces can be aggregated into bond 0.
- E. Bonds that are created for iSCSI can have only one VLAN.
- F. Administrators can change the MTU setting on bonds that are created for iSCSI.

Correct Answer: ACF

Explanation**Explanation/Reference:**

Explanation: Ethernet interfaces can either be stand-alone or part of a bond; the user-defined setting is the MTU.

QUESTION 2

Which three options are three functions of a Cisco UCS Invicta scaling system router? (Choose three.)

- A. Host connectivity
- B. Power fail data protection
- C. Error correction
- D. Mirror protection
- E. RAID
- F. Replication

Correct Answer: ADF

Explanation**Explanation/Reference:**

Explanation: The UCS Invicta scaling system router is the component that provides communications with the network and includes the features described above.

QUESTION 3

Which option is the definition of "parity" in a RAID environment?

- A. An error correction technique that improves fault tolerance
- B. A technique to ensure that read/write operations on one drive are mirrored to another drive
- C. A technique to ensure that read/write operations are balanced across two or more drives
- D. A technique to ensure that either one of two drives can service a request

Correct Answer: A

Explanation**Explanation/Reference:**

Reference: <http://en.wikipedia.org/wiki/RAID> (concept)

QUESTION 4

Which three options are three connectivity and management differences between Cisco UCS Invicta and PCIe flash memory? (Choose three.)

- A. Cisco UCS Invicta supports AGP connections.
- B. Connectivity between PCIe flash memory cards is supported through USB cables.
- C. PCIe flash memory supports Fibre Channel and iSCSI protocols.
- D. Cisco UCS Director can manage Cisco UCS Invicta.

- E. Cisco UCS Invicta involves external connections to host servers, but PCIe flash memory is embedded inside a host server.
- F. Cisco UCS Invicta is managed centrally, but PCIe flash memory is managed individually.

Correct Answer: DEF

Explanation

Explanation/Reference:

Explanation: PCIFlash memory resides at each particular server and management is a host by host task; UCS Invicta, in contrast, is a unified storage platform that is external to the servers and can be managed using UCS director, while effectively serving different hosts in the environment.

QUESTION 5

Which three descriptions of the Cisco UCS Invicta scaling system router are true? (Choose three.)

- A. Connects to scaling system nodes using AGP cables
- B. Provides node management
- C. Manages connectivity between hosts and scaling system nodes
- D. Supports FCIP, iSCSI, and Fibre Channel
- E. Configured using CiscoWorks
- F. Supports combination of acceleration and data reduction nodes

Correct Answer: BCF

Explanation

Explanation/Reference:

Explanation: Scaling System router provides hosts connectivity, node management and it does support iSCSI and FibreChannel but not FcoE which makes option D incorrect. You could order, however, a combination of acceleration and standard reduction nodes. Reference: <http://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs-invicta-series-solid-state-system/datasheet-c78-730753.html>

QUESTION 6

Which three workloads are ideal to accelerate using Cisco UCS Invicta? (Choose three.)

- A. Mobile applications
- B. Database loads
- C. Transitioning from disk-based to in-memory databases
- D. Storage media for backup and recovery operations
- E. Virtual desktops
- F. Batch processing

Correct Answer: BEF

Explanation

Explanation/Reference:

Explanation: Because of the criticality of Database loads, the high I/O operations demand of VDI and the necessary to comply with allotted batch processing windows, these three workloads will specially benefit of the acceleration provided by UCS Invicta. Reference: http://www.cisco.com/c/dam/en/us/products/collateral/servers-unified-computing/wp_invicta_aap.pdf (page 8)

QUESTION 7

Which three options are three benefits of faster applications based on Cisco sales experiences? (Choose three.)

- A. Run more virtual servers on a single physical host
- B. Consolidate high-performance computing nodes
- C. Consolidate databases
- D. Consolidate servers

- E. Consolidate virtual machines
- F. Combine big data applications alongside relational databases

Correct Answer: BEF

Explanation

Explanation/Reference:

QUESTION 8

Which option is the definition of the "RAID penalty"?

- A. The limitation that RAID can only be enabled for one storage shelf per cluster
- B. The increase in the purchase price for a product when RAID is utilized
- C. The extra wait time required for all operations required by the RAID level
- D. The fact that RAID requires a dedicated cache to properly function

Correct Answer: C

Explanation

Explanation/Reference:

Explanation: When planning for storage operations, RAID penalty is a measure to calculate carefully as it implies the waiting time for parity info to be written. Reference: <http://theithollow.com/2012/03/understanding-raid-penalty/>

QUESTION 9

Which protection mechanism is used by the Cisco UCS Invicta appliance to protect data writes if a power outage occurs?

- A. The UPS option is available to prevent loss of power to the device.
- B. The LSI RAID card protects data in the event of power loss.
- C. The QLogic HBA card protects data in the event of power loss.
- D. The NVRAM card protects data in the event of power loss.

Correct Answer: D

Explanation

Explanation/Reference:

Explanation: The NVRAM card is the actual ring buffer which protects data to be written in the case of power outages.

QUESTION 10

Which three statements about solid state drives are true? (Choose three.)

- A. Solid state drives typically exceed the capacity of hard disk drives.
- B. Solid state drives typically deliver about 1,000 times less latency than hard disk drives.
- C. Solid state drives typically deliver 5-10 times less latency than hard disk drives.
- D. Cisco best practices dictate that random and sequential workloads should not be mixed on the same solid state drive because poor performance results.
- E. Solid state drives typically deliver about 100 times the IOPS performance of hard disk drives.
- F. Solid state drives do not suffer from mechanical seek time latency.

Correct Answer: CEF

Explanation

Explanation/Reference:

QUESTION 11

Which aspect of Cisco UCS Director offers task automation for Cisco UCS Invicta configuration?

- A. Customized workflows using the API
- B. Customized workflows using Python scripts
- C. Customized workflows using Pearl scripts
- D. Customized workflows using macros
- E. Customized workflows using JSON scripts

Correct Answer: D

Explanation

Explanation/Reference:

Explanation: UCS Director provides Macros allowing you to customize workflows. Reference: http://www.cisco.com/c/en/us/td/docs/unified_computing/ucs/ucs-director/administration-guide/4-0/ucs_director_admin_guide/using_macros.html

QUESTION 12

Which statement about the scaling system router is true?

- A. SSR has no management or host facing interfaces, no ring buffer, and no LSI RAID card.
- B. SSR has no management interface but does have host facing interfaces, no ring buffer, and no LSI RAID card.
- C. SSR has management and host facing interfaces, a ring buffer, and no LSI RAID card.
- D. SSR has management and host facing interfaces, ring buffer, and LSI RAID card.
- E. SSR has management and host facing interfaces, no ring buffer, and no LSI RAID card.

Correct Answer: E

Explanation

Explanation/Reference:

Explanation: SSR deals with management and networking functions of the Scaling system; the other options referred to above are storage-specific, thus carried by the Scaling Node.

QUESTION 13

Which four options are four key messages for Cisco UCS Invicta solutions? (Choose four.)

- A. Cisco UCS Invicta eliminates the need for Fibre Channel connectivity.
- B. Cisco UCS Invicta replaces all other PCIe-based flash storage.
- C. Performance and deduplication storage nodes can be deployed in the same scaling system.
- D. Cisco UCS Invicta provides symmetrical write performance (writes perform about as fast as reads).
- E. Cisco UCS Invicta scaling system provides a unique architectural advantage over other all flash arrays.
- F. Cisco UCS Invicta provides scale-up performance up to 30 storage nodes.
- G. PCIe flash form factor provides Cisco UCS Invicta with the lowest latency possible.
- H. Cisco UCS Invicta concurrently provides scale-up and scale-out architectures.

Correct Answer: CDEH

Explanation

Explanation/Reference:

Explanation: The architecture of Cisco Invicta allows both scale up and scale out options, providing flexibility to customize the type of storage nodes based on the needs and allowing need equal- performance for both read and write operations.

QUESTION 14

Which three options are characteristics of the Cisco UCS Invicta asynchronous replication feature? (Choose three.)

- A. A LUN can be asynchronously replicated to a NFS share.

- B. It provides for file-level replication based on a snapshot of a point in time.
- C. It is an optional licensed feature on Cisco UCS Invicta systems.
- D. It is available only on Cisco UCS Invicta scaling systems.
- E. It provides for block-level replication based on a snapshot of a point in time.
- F. It can be enabled at any time without disruption.

Correct Answer: CEF

Explanation

Explanation/Reference:

Explanation: Asynchronous replication happens either from LUN to LUN or NFS to NFS; it's an optional feature that can be loaded at any time without disruption.

QUESTION 15

Which option is the name of a Linux command-line I/O tool that is meant to be used for benchmark and stress/hardware verification?

- A. Bash
- B. fio
- C. X11
- D. Iometer
- E. Remedy
- F. GNOME

Correct Answer: B

Explanation

Explanation/Reference:

Explanation: FIO is this command line tool native to Windows and actually comes pre-packaged with Fedora 8.

Reference: <https://developer.rackspace.com/blog/welcome-to-performance-cloud-servers-have-some-benchmarks/>

QUESTION 16

Which two options are performance differences between Cisco UCS Invicta and PCIe flash memory? (Choose two.)

- A. Cisco UCS Invicta consumes much less power than PCIe flash memory.
- B. Cisco UCS Invicta provides much better benefit at scale for system boot storms.
- C. Cisco UCS Invicta provides much better reduction in system boot time.
- D. Cisco UCS Invicta provides significantly better I/O latency.
- E. Cisco UCS Invicta provides significantly more I/O acceleration.

Correct Answer: BC

Explanation

Explanation/Reference:

Explanation: Those are the performance differences, in the other subjects stated above, both technologies are very similar.

QUESTION 17

Which interface types are supported in the PCIe slots of the scaling system router?

- A. No user configurable interface cards are supported.
- B. 10 GE and 16 GB Fibre Channel.
- C. 10 GE and 8 GB Fibre Channel.
- D. 1 GE and 8 GB Fibre Channel.
- E. 1 GE and 16 GB Fibre Channel.

Correct Answer: C
Explanation

Explanation/Reference:

Reference: <http://www.cisco.com/c/en/us/products/collateral/servers-unified-computing/ucs- invicta-series-solid-state-system/datasheet-c78-730753.html> (See table 2)

QUESTION 18

Which interface types are supported in the PCIe slots of the scaling system node?

- A. User-configurable interface cards are not supported.
- B. 11 GE and 16 GB Fibre Channel.
- C. 11 GE and 8 GB Fibre Channel.
- D. 2 GE and 8 GB Fibre Channel.
- E. 2 GE and 16 GB Fibre Channel.

Correct Answer: A
Explanation

Explanation/Reference:

Explanation: Remember it's the SSR which needs connectivity to the switching backplane.

QUESTION 19

Which three options are three characteristics of Cisco UCS Invicta volume groups? (Choose three.)

- A. If high availability is required, mirroring should be enabled on any volume groups that span multiple storage nodes.
- B. A volume group is presented to the system as one large storage unit.
- C. A volume group cannot span multiple storage nodes.
- D. Vertical RAID 6 protects volume groups that span multiple storage nodes.
- E. LUNs are assigned to volume groups.
- F. RAID 1 and RAID 6 are the two options for volume group configuration.

Correct Answer: ABE
Explanation

Explanation/Reference:

Explanation: A LUN is a storage logical unit, presented to the system as a storage unit; in the case of UCS invicta, you can enable mirroring for high availability; LUNs should be mapped to Volumes.

QUESTION 20

Which two characteristics are common to OLTP transactions? (Choose two.)

- A. Bulk loads of large data files
- B. Long-running queries against large data sets
- C. Small, interactive transactions
- D. After-hours batch processing
- E. A requirement for subsecond response times

Correct Answer: BE
Explanation

Explanation/Reference:

Explanation: Typically, On-Line transactions are small interactions where customers look for fast execution.

QUESTION 21

Which option is the approach used by the Solid State Systems Group in its labs?

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