



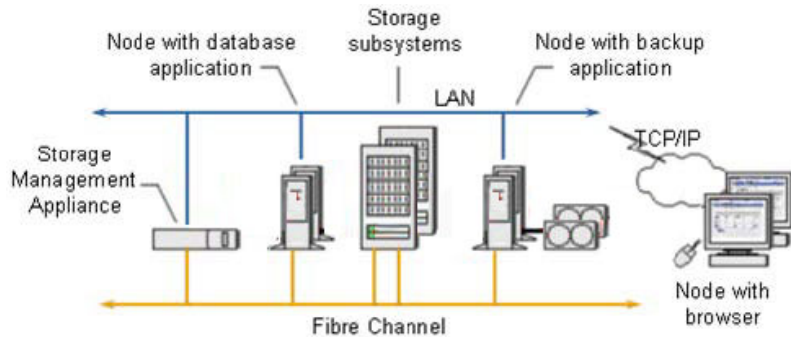
Exam : HP0-728

Title : Replication Solutions for HP StorageWorks EVA

Ver : 04-09-2009

QUESTION 1:

Where is the Business Copy (BC) server component installed in the diagram?



- A. storage array
- B. host (Node 2)
- C. desktop with web browser
- D. Storage Management Appliance (Node 1)

Answer: D

QUESTION 2:

In Continuous Access EVA, which statement is true?

- A. A copy set's mode is set to synchronous/asynchronous mode.
- B. All copy sets within a DR group are either synchronous or asynchronous.
- C. Synchronous mode allows for more data loss than asynchronous mode.
- D. Asynchronous mode means an I/O acknowledgement is sent to the host after data is written to the source Vdisk and destination Vdisk.

Answer: B

QUESTION 3:

Only the Replication Solutions Manager may be used to create_____.

- A. copy sets
- B. DR groups
- C. disk groups
- D. managed sets

Answer: D

QUESTION 4:

Which three statements are true about copy sets for Continuous Access EVA?
(Choose three.)

- A. Copy sets in a DR group fail over together.
- B. Copy sets in a DR group preserve write order.
- C. Copy sets can be created without a DR group.
- D. Copy sets in a DR group share the same log unit.
- E. Copy sets in a DR group have the same Vraid levels.

Answer: ABD

QUESTION 5:

What is a Continuous Access EVA copy set?

- A. a bound set of two Vdisks used for long distance replication
- B. a group of Vdisks that transition to the same state simultaneously
- C. a set of DR groups selected for the purpose of managing the groups
- D. a set of two or more cluster nodes created as part of a stretch cluster

Answer: A

QUESTION 6:

Which statement about Continuous Access EVA is true?

- A. Each copy set has its own unique log disk.
- B. There is no limit to the number of copy sets allowed.
- C. All Vdisks in a DR group must be referred to the same controller.
- D. All copy sets in a DR group must be configured for failsafe mode.

Answer: C

QUESTION 7:

How many Continuous Access EVA DR groups can share a log disk?

- A. 1
- B. 7
- C. 8
- D. 12

Answer: A

QUESTION 8:

Which statement is true about a home storage system?

- A. It acts as the slave for a DR group.
- B. It designates the destination for data replication.
- C. It identifies the storage system closest to the host.
- D. It is the preferred storage system for the source DR group.

Answer: D

QUESTION 9:

Which statement is true about Continuous Access EVA bidirectional replication?

- A. It provides performance benefits.
- B. Vdisks can have a relationship with two other Vdisks.
- C. The storage system contains both source and destination Vdisks.
- D. The same Vdisks can be modified from both source and destination storage systems.

Answer: C

QUESTION 10:

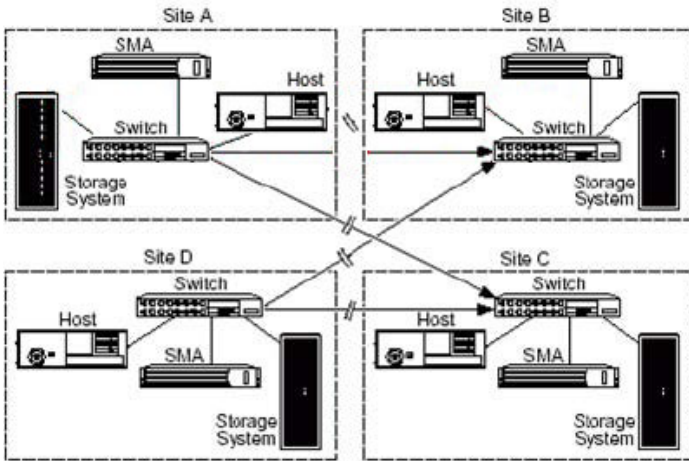
Which two can be failed over during a Continuous Access EVA planned or unplanned event? (Choose two.)

- A. copy set
- B. DR group
- C. managed set
- D. a single HSV controller

Answer: BC

QUESTION 11:

Exhibit.



Which two types of multiple replication relationships are shown in the exhibit?
(Choose two.)

- A. fan in
- B. fan out
- C. cascaded
- D. bidirectional

Answer: AB

QUESTION 12:

Which replication method provides the least amount of downtime and "MOST" redundancy to a database?

- A. snap
- B. clone
- C. snapclone
- D. fully allocated snap
- E. demand allocated snap

Answer: C

QUESTION 13:

Which four are components of a Business Copy (BC) network? (Choose four.)

- A. BC server
- B. tape backup
- C. EVA storage
- D. BC host agent
- E. Element Manager
- F. Command View EVA

G. Management Appliance

Answer: ACDG

QUESTION 14:

What are three job operations within Business Copy (BC)? (Choose three.)

- A. clone
- B. mount
- C. launch
- D. backup
- E. terminate

Answer: ABC

QUESTION 15:

What is one way to improve performance via the configuration page?

- A. select the HSG Options tab, change the Refresh Storage box to a higher number
- B. select the HSV Options tab, change the Refresh Storage box to a lower number
- C. select the Subsystem Options tab, change the Refresh Storage box to a higher number
- D. select the Subsystem Options tab, change the Refresh Storage box to a lower number

Answer: C

QUESTION 16:

When executing from the Business Copy (BC) command line, which switch is utilized in a script to continue to the next step of the script without waiting until the current command is complete?

- A. /B
- B. /C
- C. /I
- D. /R

Answer: C

QUESTION 17:

Which statement is true for Business Copy (BC) EVA and Storage Virtual Replicator (SVR) operations?

- A. Both are host-based products.

- B. Both are controller-based products.
- C. BC is a controller-based product and SVR is a host-based product.
- D. BC is a host-based product and SVR is a controller-based product.

Answer: C

QUESTION 18:

To be a Business Copy (BC) server, the Storage Management Appliance MUST have which three installed? (Choose three.)

- A. BC server software
- B. Command View EVA
- C. SAN connection to a host
- D. SAN connection to a HSV storage subsystem

Answer: ABD

QUESTION 19:

Which two statements about Business Copy (BC) are true? (Choose two.)

- A. BC is limited to 16 EVA storage systems.
- B. BC supports an unlimited number of storage systems.
- C. BC supports up to 25 servers running the BC host agent.
- D. BC supports an unlimited number of servers running the BC host agent.

Answer: AD

QUESTION 20:

What occurs during normalization of a DR group?

- A. The destination Vdisk is updated with data from the log file.
- B. The data and group sequence number is written to the log disk.
- C. The initial copy from the source Vdisk to the destination Vdisk is in progress.
- D. Only the current host I/O to the source Vdisk is copied to the destination Vdisk.

Answer: C

QUESTION 21:

Which two statements are true for merging? (Choose two.)

- A. Host I/O's go to the log.
- B. Merge I/O's have priority over host I/O's.

- C. Host I/O's have priority over merge I/O's.
- D. The initial copy from source to destination is in progress.
- E. Vdisks at both the source and destination have synchronized.

Answer: AB

QUESTION 22:

Which two events occur when a DR group is suspended? (Choose two.)

- A. Logging starts.
- B. The merging process starts.
- C. All host I/O to this DR group is suspended.
- D. Replication between source and destination Vdisks stops.

Answer: AD

QUESTION 23:

On Continuous Access EVA, which replicated Vdisks can you take snapshots of?

- A. only the source site
- B. only the destination site
- C. both the source and destination sites
- D. either the source or the destination site, but not both

Answer: D

QUESTION 24:

Where do you set asynchronous mode for a copy set?

- A. on the EVA
- B. on the copy set
- C. on the DR group
- D. on the managed set

Answer: C

QUESTION 25:

What are two possible results of issuing a resume command? (Choose two.)

- A. full copy of a source Vdisk
- B. normalization of the copy set
- C. merging of the log to the destination Vdisk

- D. DR group goes into a failsafe-locked condition.
- E. removal of the destination Vdisk from the copy set

Answer: AC

QUESTION 26:

For the Continuous Access EVA, which two statements are true for DR group normal mode? (Choose two.)

- A. It assures best performance.
- B. It ensures the highest data integrity.
- C. It is the default mode for a DR group.
- D. It stops I/O if the destination is unavailable.
- E. It is also referred to as failsafe-disabled mode.

Answer: CE

QUESTION 27:

What occurs during the merging state of a DR group?

- A. Initial copy from source to destination is in progress.
- B. Source Vdisk is fully copied to the destination Vdisk.
- C. Data and group sequence number is written to the log disk.
- D. Writes are written in sequence to the destination Vdisk from the log.

Answer: D

QUESTION 28:

What are three attributes of a log disk? (Choose three.)

- A. Vraid1
- B. Vraid5
- C. allocates space upon demand
- D. can reside within any disk group
- E. preallocates space equal to 75% of the copy set
- F. must reside within the same disk group as the copy set

Answer: ACD

QUESTION 29:

To which structure is a log disk assigned?

- A. Vdisk
- B. copy set
- C. DR group
- D. managed set

Answer: C

QUESTION 30:

The log disk collects host writes for ____.

- A. source Vdisks
- B. managed sets
- C. entire copy set
- D. destination Vdisks

Answer: D

QUESTION 31:

Which three statements about managed sets are true? (Choose three.)

- A. DR groups may belong to only one managed set.
- B. Managed sets can be created from Command View.
- C. DR groups may belong to more than one managed set.
- D. Managed sets may include DR groups from multiple storage systems.
- E. Managed sets may include only DR groups from a single storage system.
- F. Managed sets can be created from Replication Solutions Manager.

Answer: CDF

QUESTION 32:

What can managed sets be used to do?

- A. create copy sets
- B. create DR groups
- C. failover multiple DR groups
- D. manage individual copy sets

Answer: C

QUESTION 33:

Which statement is true about Continuous Access EVA DR group normal mode?

- A. It provides guaranteed uptime.
- B. It has the highest level of data integrity.
- C. Host I/O continues if the destination Vdisk is not operational.
- D. An exact copy of data is always available at the destination Vdisk.

Answer: C

QUESTION 34:

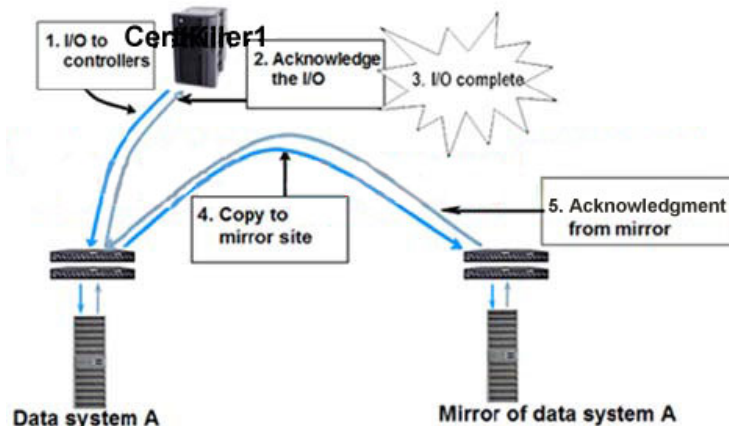
When a copy set enters failsafe-locked, which statement is true?

- A. Logging starts.
- B. Host I/O fails to the source Vdisk.
- C. A merge operation starts automatically when the link is restored.
- D. Host I/O continues to the source Vdisk, but not the destination Vdisk.

Answer: B

QUESTION 35:

Which Continuous Access term describes this graphic?



- A. failsafe lock
- B. managed set
- C. failback process
- D. synchronous mode
- E. asynchronous mode

Answer: E

QUESTION 36:

The suspend command is issued against which structure?

- A. copy sets
- B. DR groups
- C. source Vdisk
- D. managed sets

Answer: B

QUESTION 37:

What are three characteristics of the suspend command? (Choose three.)

- A. initiates logging
- B. cannot be used in failsafe mode
- C. is set on the source system only
- D. stops host I/O to source and destination Vdisks
- E. is set on either the source or destination system

Answer: ABC

QUESTION 38:

What is the resume command used to do?

- A. resume host I/O after a suspend command is issued
- B. starts a merge operation after a suspend command is issued
- C. starts a logging operation after a suspend command is issued
- D. starts a normalization process after a loss of access to the destination

Answer: B

QUESTION 39:

In the normal mode, when does Continuous Access EVA start logging? (Choose two.)

- A. when a source EVA controller is lost
- B. when the resume command is issued
- C. when the suspend command is issued
- D. when the source loses access to the destination in normal mode
- E. when the source loses access to the destination in failsafe mode.

Answer: CD

QUESTION 40:

Which operating systems require that SecurePath be installed in a Continuous Access EVA environment?

- A. all supported operating systems
- B. all supported operating systems except HP-UX and IBM-AIX
- C. all supported operating systems except OpenVMS and Tru64 UNIX
- D. all supported operating systems except Sun Solaris and Novell NetWare

Answer: C

QUESTION 41:

What is the minimum VCS version that supports Continuous Access EVA on EVA 5000?

- A. 2.002
- B. 2.006
- C. 3.000
- D. 3.014

Answer: C

QUESTION 42:

What is the recommended number and placement of a Storage Management Server in a Continuous Access EVA configuration? (Choose two.)

- A. one at the source site
- B. two at the source site
- C. one at the destination site
- D. two on the destination site

Answer: BD

QUESTION 43:

What is the primary purpose of having two intersite links?

- A. OS separation
- B. high availability
- C. improved performance
- D. bidirectional replication

Answer: B

QUESTION 44:

What are two minimum requirements for a bidirectional Continuous Access EVA solution? (Choose two.)

- A. one EVA subsystem at the source site
- B. two EVA subsystems at the source site
- C. one EVA subsystem at the destination site
- D. two EVA subsystems at the destination site

Answer: AC

QUESTION 45:

What are two minimum requirements for a Continuous Access EVA solution? (Choose two.)

- A. longwave GBICs
- B. two FCAs per host
- C. one EVA subsystem at each site
- D. one Fibre Channel SAN switch at each site
- E. two Fibre Channel SAN switches at each site

Answer: CD

QUESTION 46:

You are configuring a high-availability Continuous Access EVA solution. How should each port of the controllers be connected?

- A. All cabling configurations can be used in Continuous Access EVA configurations.
- B. There are no specific cabling configuration requirements in Continuous Access EVA configurations.
- C. Port 1 on the top controller should be connected to the same fabric as Port 1 on the lower controller.
- D. Port 1 on the top controller should be connected to a different fabric than Port 1 on the lower controller.

Answer: D

QUESTION 47:

Which two actions must be taken before creating the first copy set? (Choose two.)

- A. create Vdisk at the source site
- B. create disk groups at the source site only

- C. create Vdisk at the source and destination sites
- D. present Vdisk at the source and destination sites
- E. create disk groups at the source and destination sites

Answer: AE

QUESTION 48:

How should Vdisks for Continuous Access be preferred?

- A. all Vdisks in the DR group to the same controller
- B. all Vdisks in the same disk group to the same controller
- C. split the Vdisk in the EVA between the controllers for load balancing
- D. split the Vdisk in the DR group between the controllers for load balancing

Answer: A

QUESTION 49:

Which three require a Continuous Access EVA license? (Choose three.)

- A. Business Copy
- B. destination array
- C. Replication Solutions Manager
- D. amount of replicated storage capacity

Answer: BCD

QUESTION 50:

How do you make sure the copy set storage allocation is complete?

- A. check DR group status
- B. check if host IO is disabled
- C. check the destination Vdisk properties page
- D. check if Continuous Access User Interface indicates copy set as normal

Answer: C

QUESTION 51:

Which three are user interfaces for Continuous Access EVA? (Choose three.)

- A. Command View EVA
- B. Storage System Scripting Utility
- C. OpenView Storage Node Manager

D. Replication Solutions Manager

Answer: ABD

QUESTION 52:

What happens when a copy set is detached?

- A. The source and destination Vdisks are destroyed.
- B. The source and destination Vdisks are preserved.
- C. Only the source Vdisk is preserved; the destination Vdisk is destroyed.
- D. Only the destination Vdisk is preserved; the source Vdisk is destroyed.

Answer: B

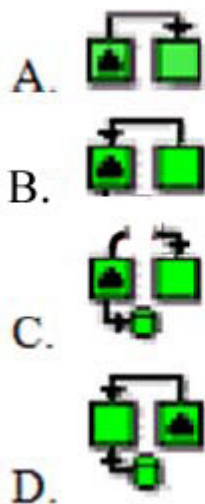
QUESTION 53:

Which three objects are displayed in the Replication Solutions Manager navigation pane? (Choose thee.)

- A. hosts
- B. copy set
- C. DR groups
- D. virtual disks
- E. disk groups

Answer: ACD

QUESTION 54:



Which icon denotes a failed-over DR group?

- A. A
- B. B
- C. C
- D. D

Answer: B

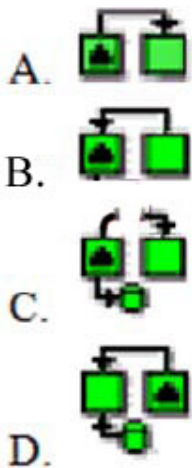
QUESTION 55:

A disk symbol is attached to a Replication Solutions Manager icon. What can this indicate about a DR group? (Choose three.)

- A. It is logging.
- B. It is merging.
- C. It is suspended.
- D. It is failsafe-locked.

Answer: ABC

QUESTION 56:



Which icon denotes a DR group that is logging?

- A. A
- B. B
- C. C
- D. D

Answer: C

QUESTION 57:

What configuration information does clicking Tools-->Export Replication Solutions Manager Database on Replication Solutions Manager capture?

- A. all array configuration information for participating storage subsystems
- B. the Replication Solutions Manager configuration for the array on which it is executed
- C. the Replication Solutions Manager configuration for all participating storage subsystems
- D. the Replication Solutions Manager configuration for the storage subsystem on which it is executed

Answer: C

QUESTION 58:

Which array receives the Continuous Access failover command?

- A. the source array only
- B. the destination array only
- C. both the source and destination arrays
- D. neither the destination, nor the source arrays

Answer: B

QUESTION 59:

The destination controller pair fails. All DR groups are set to failsafe mode enabled. The customer needs application usage immediately. What needs to be done?

- A. perform a DR failover
- B. disable failsafe mode
- C. perform a resume operation
- D. Nothing is required, as storage is accessible.

Answer: B

QUESTION 60:

Certkiller .com plans for an extended power outage at their source site. All DR groups are set to failsafe mode enabled. The customer needs application usage at the remote site.

What needs to be done? (Choose two.)

- A. perform a DR group failover

- B. disable failsafe mode
- C. perform a resume operation
- D. Nothing is required, as storage is accessible.

Answer: AB

QUESTION 61:

Certkiller .com has an Oracle database. The Oracle redo log disk and data disk are part of the same DR group, which has failsafe mode enabled. The Oracle redo log disk on the destination fails.

What happens?

- A. All future host I/Os are written to the log.
- B. The Vdisk in the DR group no longer accepts host I/O.
- C. The destination is automatically marked for a full copy.
- D. Failsafe mode is disabled and I/O operations are resumed.

Answer: B

QUESTION 62:

Certkiller .com has a high availability Continuous Access EVA environment. All DR groups are set to failsafe mode enabled. The source site array has a hardware failure and all DR groups are failed over to the destination site. The hardware failure is then fixed.

Which two commands need to be set to restore normal operations at the source site? (Choose two.)

- A. failover
- B. failback
- C. resume
- D. suspend
- E. failsafe mode enable

Answer: AE

QUESTION 63:

Which two are valid Continuous Access EVA commands? (Choose two.)

- A. failover
- B. failback
- C. failsafe mode enable
- D. failsafe-locked enable

Answer: AC

QUESTION 64:

One of two intersite links fails on a Continuous Access EVA high availability configuration.

Which two statements are true? (Choose two.)

- A. I/O operations transfer from one fabric to the other.
- B. If failsafe is enabled, then host I/O operations will stop.
- C. Replication Solutions Manager will report a broken connection.
- D. All DR groups on the affected path will fail over to other controllers.

Answer: AC

QUESTION 65:

Replication Solutions Manager receives Continuous Access event information directly from _____.

- A. HSV controllers
- B. Command View EVA
- C. Systems Insight Manager
- D. Storage Management Server Notification Utility

Answer: A

QUESTION 66:

Which events can you see in the Replication Solutions Manager?

- A. only events that are related to DR groups
- B. only the Continuous Access specific events
- C. only events that are related to managed sets
- D. all EVA events for the subsystems that are part of the Continuous Access environment

Answer: D

QUESTION 67:

Which three would result in a Replication Solutions Manager event? (Choose three.)

- A. Vdisk failure
- B. job completion
- C. disk group created

D. transitioned to logging state

Answer: ABD

QUESTION 68:

Which type of tool is the Continuous Access EVA Replication Performance Estimator?

- A. a performance analyzer tool
- B. a performance prediction tool
- C. a performance measurement tool
- D. a performance recommendation tool

Answer: B

QUESTION 69:

Which two inputs does the Continuous Access EVA Replication Performance Estimator require? (Choose two.)

- A. throughput per second
- B. two-way intersite latency
- C. one-way intersite latency
- D. size of a read data packet
- E. number of IO's per second
- F. size of the write data packet

Answer: CF

QUESTION 70:

What is the recommended utilization for a single intersite link pipe for a high-performance application?

- A. 20%
- B. 40%
- C. 60%
- D. 80%

Answer: B

QUESTION 71:

Which one-way intersite latency is allowed by Continuous Access EVA using VCS 3.010?

- A. 10 us
- B. 10 ms
- C. 100 us
- D. 100 ms

Answer: D

QUESTION 72:

Which two technologies can Continuous Access EVA use to extend a SAN? (Choose two.)

- A. FTP
- B. iFCP
- C. FCIP
- D. WDM

Answer: CD

QUESTION 73:

What does the optical technology Wavelength Division Multiplexing convert?

- A. optical signals to multiple T3 lines
- B. a single signal over multiple fibers
- C. a single signal over multiple IP networks
- D. multiple concurrent signals over a single fiber

Answer: D

QUESTION 74:

When is a Continuous Access EVA environment considered an extended SAN?

- A. when there are more than two intersite links
- B. when there are more than three EVA systems
- C. when there are more than two destination sites
- D. when there are more than 10 km between FC switches

Answer: D

QUESTION 75:

Which Continuous Access EVA SAN extension technology provides the ability to expand capacity of a network without adding hardware?

- A. ATM
- B. FCIP
- C. WDM
- D. SONET

Answer: C

QUESTION 76:

Which three statements are true about a stretched cluster configuration? (Choose three.)

- A. It may use both storage subsystems.
- B. It incurs a performance penalty after node failover.
- C. It provides for a fully automatic failover of all components.
- D. It should divide the nodes of the cluster evenly between both sites.

Answer: ABD

QUESTION 77:

A site loses intersite links for an extended period of time. When the links come back, all DR groups are merging. This causes a significant host performance issue. What are two recommended procedures used to enhance host I/O performance? (Choose two.)

- A. detach some copy sets
- B. issue a suspend command against some of the less critical copy sets
- C. issue a suspend command against some of the less critical DR Groups
- D. issue a suspend command against some of the less critical managed sets

Answer: CD

QUESTION 78:

You are creating a DR group for a database. Which disk group is used for the write history log for the database DR group?

- A. an empty disk group with 2 TB of space
- B. a new disk group will get created for the log disk
- C. 3 TB database disk group with 1 TB of free space
- D. 5 TB windows disk group with 2 TB of occupied space

Answer: D

QUESTION 79:

Why does HP recommend synchronous replication mode over asynchronous replication mode?

- A. Synchronous replication mode saturates at a lower rate.
- B. Synchronous replication mode provides better data protection.
- C. Write order is not assured using asynchronous replication mode.
- D. Synchronous replication mode responds faster when the I/O rate is below saturation.

Answer: B