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Question 1

Question Type: MultipleChoice

During an upgrade, Is Multi-Version Clustering (MVC) supported?

Options:

- A- No. Maestro does not support MVC because ClusterXL is disabled during an upgrade.
- B- No, Maestro does not support MVC.
- C- Maestro supports MVC or full connectivity upgrade as of R80.40.
- D- Yes, MVC is supported as of R81 for Maestro.

Answer:

C

Question 2

Question Type: MultipleChoice

After you import the R81.10 software package, what do you use to verify that it is possible to upgrade an MHO or SG?

Options:

- A-** Run HCP. One of the tests will list upgrade eligibility status for the MHO or SG.
- B-** Run the Pre-Upgrade Verifier to make sure it is possible to upgrade
- C-** Nothing. CPUSE will run a verification during the upgrade process to ensure the package is compatible.
- D-** The package is verified during the import process and a warning or error will be displayed at that time.

Answer:

B

Explanation:

The Pre-Upgrade Verifier is a tool that checks the compatibility and readiness of the Maestro environment for the upgrade process. It verifies the current version, the target version, the hardware requirements, the configuration settings, and the license validity of the Maestro Orchestrators and the Security Groups. It also identifies any potential issues or risks that might affect the upgrade and provides recommendations on how to resolve them. The Pre-Upgrade Verifier should be run before importing the R81.10 software package and before performing the actual upgrade.

Reference =

* Check Point R81.10 for Scalable Platforms - Check Point Software

* CHECK POINT MAESTRO EXPERT

Question 3

Question Type: MultipleChoice

What is the max amount of Orchestrators in Dual-site setup?

Options:

A- 2 per Security Group

B- 4 per Security Group

C- 2

D- 4

Answer:

B

Explanation:

A Dual Site setup can have either two or four orchestrators, depending on the scenario. However, the maximum number of orchestrators per Security Group is four, regardless of the number of sites. This is because each Security Group can have up to two orchestrators on each site, and each site can have up to two orchestrators. Therefore, the maximum number of orchestrators in a Dual Site setup is four per Security Group.

Reference =

- * Maestro Frequently Asked Questions (FAQ)
- * Maestro Dual Site configuration with a direct connection through L2 switches
- * Dual Site Single Maestro Hyperscale Orchestrator Cluster (Dual Site Single MHO Redundancy)

Question 4

Question Type: MultipleChoice

How does HyperSync work in a Dual Site environment?

Options:

- A- Each active connection has two local backups (on the local site) and a third backup connection on the second site (remote site.)
- B- Each active connection has a backup connection on the second site (remote site.)
- C- Each active connection has a local backup (on the local site) and a second backup connection on the second site (remote site.)
- D- Each active connection has a local backup (on the local site) and a second backup connection on each of the MHOs.

Answer:

C

Explanation:

HyperSync is a feature of Maestro that enables stateful synchronization of connections and resources across different sites in a Dual Site environment. HyperSync works by creating two backup connections for each active connection: one on the same site as the active connection, and another on the remote site. This ensures that the connection can be seamlessly resumed in case of a failover event, either within the same site or across the sites. HyperSync uses the Site-Sync port and VLANs to transmit the synchronization packets between the Security Group Members and the Maestro Orchestrators.

Reference =

- * Maestro Dual Site configuration with a direct connection through L2 switches
- * Maestro Frequently Asked Questions (FAQ)

Question 5

Question Type: MultipleChoice

What is the difference between Dual-Site and Dual-Room?

Options:

- A- Dual-Room is a kind of Dual-Site deployment within the same building
- B- Dual-Room is Active / Standby and Dual-Site is Active / Active
- C- Dual-Room is a Single-Site deployment where all Appliances are connected to both orchestrators
- D- They are the same

Answer:

A

Explanation:

Reference =

- * [Maestro Frequently Asked Questions (FAQ)]
- * Maestro Dual Site configuration with a direct connection through L2 switches
- * Dual Site Single Maestro Hyperscale Orchestrator Cluster (Dual Site Single MHO Redundancy)
- * CHECK POINT MAESTRO EXPERT

Question 6

Question Type: MultipleChoice

Which command is used to set the number of sites in a Maestro environment?

Options:

A- set maestro orchestrator-site-amount

B- set maestro configuration orchestrator-site-amount

C- set maestro configuration orchestrator-site-number

D- set maestro configuration orchestrator-site-id

Answer:

B

Explanation:

This command is used to set the number of sites in a Maestro environment, which can be either one or two. The number of sites determines the site-sync configuration and the failover policies for the Security Groups and the Security Group Members. The default value is one, and it can be changed only before the first Security Group is created.

Reference =

* Maestro basic setup documentation - Page 2 - Check Point CheckMates

* Check Point R81.10 for Scalable Platforms - Check Point Software

* CHECK POINT MAESTRO EXPERT

Question 7

Question Type: MultipleChoice

Multiple SGs can exist in a Dual Site environment. Each SG can be configured in one of three ways. Which is not one of those ways?

Options:

- A-** Two MHOs connected to two MHOs via load balancers.
- B-** Two MHOs at same site connected to remote site MHOs via two different switches.
- C-** Two MHOs at same site connected to remote site MHOs via single switch.
- D-** Direct connectivity between Remote Site MHOs.

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Answer:

A

Explanation:

This is not one of the ways to configure a Security Group in a Dual Site environment, because load balancers are not required or supported for the inter-site communication between the Maestro Orchestrators (MHOs). The MHOs use the Site-Sync port and VLANs to synchronize the resources and connections across the sites. The three valid scenarios for Dual Site configuration are:

- * Direct connectivity between remote site Orchestrators: This scenario requires two orchestrators, one for each site, and a direct connection between them using the site-sync port.
- * Two orchestrators on the same site are connected to the remote site orchestrators through two different switches: This scenario requires four orchestrators, two for each site, and a connection between them using the site-sync port and two external switches that support QinQ and MTU increment.
- * Two orchestrators on the same site are connected to the remote site orchestrators through one switch: This scenario also requires four orchestrators, two for each site, and a connection between them using the site-sync port and one external switch that support QinQ and MTU increment.

Reference =

- * Maestro Dual Site configuration with a direct connection through L2 switches
- * [Dual Site Single Maestro Hyperscale Orchestrator Cluster (Dual Site Single MHO Redundancy)]
- * [Maestro Frequently Asked Questions (FAQ)]

Question 8

Question Type: MultipleChoice

How many orchestrators may Dual-Site include?

Options:

A- 2 or 4

B- 2

C- 1

D- Only 4

Answer:

A

Explanation:

A Dual Site environment can include either two or four orchestrators, depending on the scenario. There are three primary scenarios for Dual Site configuration:

* Direct connectivity between remote site orchestrators: This scenario requires two orchestrators, one for each site, and a direct connection between them using the site-sync port.

* Two orchestrators on the same site are connected to the remote site orchestrators through two different switches: This scenario requires four orchestrators, two for each site, and a connection between them using the site-sync port and two external switches that support QinQ and MTU increment.

* Two orchestrators on the same site are connected to the remote site orchestrators through one switch: This scenario also requires four orchestrators, two for each site, and a connection between them using the site-sync port and one external switch that supports QinQ and MTU increment.

Reference =

- * Maestro Dual Site configuration with a direct connection through L2 switches
- * Dual Site Single Maestro Hyperscale Orchestrator Cluster (Dual Site Single MHO Redundancy)
- * Maestro Frequently Asked Questions (FAQ)

Question 9

Question Type: MultipleChoice

In a Maestro Dual Site environment, what is the definition of the term Active Site.

Options:

A- The Active Site is the site that is not handling any traffic for the specific SG, but its connections are synced to its SGMs from the MHOs to be ready in the event of a failover.

B- The Active Site is the site where the SMO Master exists.

C- There is no such thing as an active site. In a Dual Site environment, traffic is load balanced.

D- The Active Site is the site currently handling the enforcement on traffic passing for a specific SG. Connections are synced within the SGMs in the Active Site.

Answer:

D

Explanation:

In a Maestro Dual Site environment, there are two sites that can host Security Group Members (SGMs) for each Security Group (SG). The Active Site is the one that is currently processing the traffic for a specific SG, while the Standby Site is the one that is ready to take over in case of a failover. The Active Site and the Standby Site can be different for different SGs, depending on the load balancing and failover policies. The Active Site and the Standby Site are synchronized by the Maestro Orchestrators (MHOs) using the Site-Sync port and VLANs.

Reference =

* Solved: Maestro dual site failover - Check Point CheckMates

* Maestro Dual Site configuration with a direct connection through L2 switches

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