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**QUESTION 1**

An engineer need to implement a solution that prevents loops from occurring accidentally by connecting a switch to interface Ethernet1/1. The port is designated to be used for host connectivity. Which configuration should be implemented?

- A. switch# configure terminal switch(config)# interface Ethernet1/1
switch(config-if)# spanning-tree bpduguard enable
- B. switch# configure terminal switch(config)# interface Ethernet1/1 switch(config-if)# spanning-tree guard loop
- C. switch# configure terminal switch(config)# interface Ethernet1/1 switch(config-if)# spanning-tree loopguard default
- D. switch# configure terminal switch(config)# interface Ethernet1/1 switch(config-if)# spanning-tree bpdufilter enable

Correct Answer: A

Reference: https://www.cisco.com/c/m/en_us/techdoc/dc/reference/cli/nxos/commands/l2/spanning-tree-bpduguard.html#:~:text=To%20enable%20bridge%20protocol%20data,no%20form%20of%20this%20command.

QUESTION 2

An engineer must perform a POAP deployment of a Cisco Nexus 9000 Series Switch The switch must automatically receive its software image and configuration file upon power-on. Also, only UDP is permitted between the Nexus 9000 switch and the server that hosts the Cisco NX-OS system images.

Which set of actions completes the configuration?

- A. Enable option 67. Define TFTP transfer protocol
- B. Enable option 43 Define HTTP transfer protocol.
- C. Enable option 46. Define TFTP transfer protocol
- D. Enable option 35. Define HTTP transfer protocol.

Correct Answer: A

QUESTION 3

Refer to the exhibit.

```
restart pim
```

Which result of running the command is true?



- A. The PIM database is deleted.
- B. Multicast traffic forwarding is suspended.
- C. PIM join messages are suspended.
- D. MRIB is flushed

Correct Answer: A

When you restart PIM, the following tasks are performed: The PIM database is deleted. The MRIB and MFIB are unaffected and forwarding of traffic continues. The multicast route ownership is verified through the MRIB. Periodic PIM join and prune messages from neighbors are used to repopulate the database.

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus9000/sw/6-x/multicast/configuration/guide/b_Cisco_Nexus_9000_Series_NX-OS_Multicast_Routing_Configuration_Guide/b_Cisco_Nexus_9000_Series_NXOS_Multicast_Routing_Configuration_Guide_chapter_011.html

QUESTION 4

Which feature is supported with an In-Service Software Upgrade on a Cisco Nexus 9000 Series Switch?

- A. nondisruptive upgrades via nonstop forwarding
- B. configuration changes during an upgrade
- C. upgrades to individual modules and line cards
- D. zero downtime downgrades via dual supervisor modules

Correct Answer: A

<https://www.cisco.com/c/en/us/td/docs/dcn/nx-os/nexus9000/101x/configuration/high-availability-and-redundancy/cisco-nexus-9000-series-nx-os-high-availability-and-redundancy-guide-101x/m-issu-and-ha.pdf>

QUESTION 5

An engineer must start a software upgrade on a Cisco Nexus 5000 Series Switch during a zone merge. What is the result of this action?

- A. The zone merge stops.
- B. The zone merge pauses until the upgrade completes
- C. The upgrade stops
- D. The zone merge executes and then the upgrade completes.

Correct Answer: C

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/nexus5500/sw/upgrade/602_N2_2/n5500_upgrade_downgrade_602_n2_2.html



The specific requirements for a nondisruptive upgrade (ISSU) are as follows:

- Topology requirements— A Cisco Nexus device on which an ISSU is being initiated should not be in one of the unsupported topologies listed in the previous figure. No interface should be in a spanning-tree designated forwarding state. Also, do not configure Bridge Assurance on any interface of the Cisco Nexus device. vPC peer-link is an exception to these requirements.
- Layer 2 requirement— The ISSU process aborts if the system has any Link Aggregation Control Protocol (LACP) fast timers configured.
- FC/FCoE requirements—Check that the topology is stable for an ISSU to work correctly. You must check the following:
 - Domain Manager—As part of the installation process, domain manager checks if the fabric is in a stable state. If the fabric is not stable, the installation aborts.
 - CFS—As part of the installation process, Cisco Fabric Services (CFS) checks if any application (ntp, fsm, rcsn, fctime) is locked. If any application is holding a CFS lock, the installation aborts.
 - Zone Server— The installation process aborts if a zone merge or zone change request is in progress.
 - FSPF—As part of the upgrade process, Fabric Shortest Path First (FSPF) verifies if the configured interface dead interval is more than 80 seconds; otherwise, the installation aborts.

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