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300-625

Implementing Cisco Storage Area Networking

Version 1.0

Sections
1. Deployment
2. Implementation
3. Management and Monitoring
4. MDS Troubleshooting

Exam A

QUESTION 1 Which two steps are mutual between Cisco secure boot and UEFI secure boot?
(Choose two.)

A. bootloader
B. operating system
C. microloader
D. kemel
E. hardware anchor

Correct Answer: AB
Section: Deployment
Explanation

Explanation/Reference:

QUESTION 2

Which feature on MDS platforms ensures that the code that is running on the hardware platform is authentic and unmodified, while also validating the BIOS to eliminate any rootkits.

A. Cisco Secure Boot
B. UEFI Secure Boot
C. Secure Unique Device Identifier
D. BIOS Secure Boot

Correct Answer: A
Section: Deployment
Explanation

Explanation/Reference:

QUESTION 3

Which component is initially responsible for loading the kickstart image on Cisco MDS Switches?

A. ROMMON
B. BIOS
C. NX-OS
D. BASH

Correct Answer: C
Section: Deployment
Explanation

Explanation/Reference:

QUESTION 4 A network engineer must run a core Cisco Nexus 9500 Series Switch as a POAP server for all top-of-rack Cisco Nexus switches. Which two network functions must run to provide the POAP service?
(Choose two.)

A. DNS
B. PXE
C. BOOTP
D. TFTP

E. DHCP

Correct Answer: DE
Section: Deployment
Explanation

Explanation/Reference:

QUESTION 5
DRAG DROP

Drag and drop the mechanisms of Cisco Secure Boot from the left into the correct order on the right.

Select and Place:

Correct Answer:

Section: Deployment
Explanation

Explanation/Reference:

QUESTION 6 Which two components are required for successful MDS USB POAP
(Choose two.)

A. NTFS formatted USB drive
B. USB drive in port 1
C. script named poap_script pl
D. ENTERPRISE_PKG license
E. system and kickstart images

Correct Answer: CE
Section: Deployment
Explanation

Explanation/Reference:

QUESTION 7
A Cisco MDS Series Switch with the POAP feature boots and does not find the startup configuration. Which location is checked first when the switch enters POAP mode?

A. USB device that contains the software image files and the switch configuration file
B. DHCP server to bootstrap the interface IP address, gateway, DNS server, and TFTP IP addresses
C. TFTP server where the necessary configuration files are downloaded
D. HTTP server where the URL is used to download the software image

Correct Answer: A
Section: Deployment
Explanation

Explanation/Reference:

QUESTION 8 After user account attributes are modified in Cisco NX-OS, when do changes to the user's session
attributes take effect?

A. immediately

B. at the scheduled time
C. when the user logs out of a session
D. when the user creates a new session

Correct Answer: D
Section: Deployment
Explanation

Explanation/Reference:

QUESTION 9 Which Cisco NX-OS command displays the VSAN that is associated
with each FCID?

A. **show fcdomain**
B. **show fc2 plogi**
C. **show vsan database**
D. **show flogi database**

Correct Answer: A
Section: Deployment
Explanation

Explanation/Reference:

QUESTION 10 Which configuration is available only in Cisco DCNM-SAN
Advanced mode?

A. IVR
B. VMpath configuration
C. zoning
D. template-based provisioning

Correct Answer: A
Section: Deployment
Explanation

Explanation/Reference:

QUESTION 11 A storage network engineer is implementing disk-array data replication between two SAN environments in two different data centers not connected via Fibre Channel. Which SAN switch feature must be
implemented?

A. FCIP
B. zoning merge over LAN
C. VSAN scoping
D. IVR

Correct Answer: A
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 12
What is the effect of a non-graceful virtual machine shutdown on a virtualized server that is connected to a SAN with Fibre Channel interfaces?

A. NP Port reload connected to the upstream SAN switch
B. out-of-service Fibre Channel interfaces on the SAN switch
C. frames stuck in the storage system
D. frames stuck in the HBA buffer of the server

Correct Answer: B
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 13 Which condition requires using a device alias rather than a Fibre
Channel alias?

A. The zone database must be distributed over the fabric.
B. The same alias must be used in zoning as well as DPVM.
C. All aliases being used are being configured in the same VSAN.
D. Aliases must be saved within a central database on the fabric.

Correct Answer: A
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 14 Which result occurs if a device alias is renamed and then the original device alias name is used in an **add** command in the
same session?

A. Both commands execute successfully.
B. The device alias is renamed and the **add** command is moved to the rejected list.
C. Both commands are moved to the rejected list.
D. The **rename** command is moved to the rejected list and the **add** command executes successfully.

Correct Answer: A
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 15 Which result occurs when a VSAN is deleted that contains
non-trunking ports?

A. The ports are moved to VSAN 4094.
B. The ports are moved to VSAN 1.
C. The ports are removed from the configuration.
D. The port configurations are cleared.

Correct Answer: A
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 16

DRAG DROP
Drag and drop the FLOGI parameters from the left onto the descriptions from which they were-derived on the right.

Select and Place:

Correct Answer:

Section: Implementation
Explanation

Explanation/Reference:
Reference: https://www.cisco.com/en/US/docs/storage/san_switches/mds9000/sw/rel_3_x/configuration/guides/cli_3_3_1/npv.html#wp1502832

QUESTION 17
A storage network engineer is implementing a port channel for multiple FCIP interfaces with write acceleration in a client's storage network. Which channel mode must be used?

A. on
B. passive
C. active
D. force

Correct Answer: C
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 18 A storage administrator wants to enable NPV in a Fibre Channel edge switch. Which configuration is supported in this mode?

A. Cisco Fabric Services distribution over Fibre Channel
B. E Port connectivity to the core switch
C. local switching of east-west traffic
D. Dynamic Port VSAN Membership

Correct Answer: A
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 19 Which configuration is always required when running the setup utility on a Cisco MDS 9000
Series Switch?

A. administrator password
B. management IP address
C. active NTP server
D. active default gateway

Correct Answer: A
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 20
A network engineer is configuring a Cisco MDS switch for FCoE. Which two conditions must be considered during the implementation phase? (Choose two.)

A. On Cisco MDS switches, system-defined class maps for class-FCoE and class-default are enabled but can be deleted.
B. The QoS policy must be identical to other Cisco FCoE switches in the network.
C. On the Cisco MDS, the MTU is set equal to 2112.
D. VLAN 1 or the native VLAN can be mapped to an FCoE VSAN.
E. FCoE is already enabled on a Cisco MDS switch.

Correct Answer: BE
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 21 Which port mode is used on an NPV device to connect to an
NPIV core switch?

A. E
B. F
C. N
D. NP

Correct Answer: D
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 22
A storage administrator is configuring inter-VSAN routing on a fabric that contains duplicate domain IDs. Which feature must be configured to ensure continued operation?

A. auto topology
B. transit VSANs
C. IVR NAT
D. virtual domains

Correct Answer: C
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 23 Which EtherType is used by the FCoE
Initialization Protocol?

A. 0×8913
B. 0×8914
C. 0×xfc0e
D. 0×8906

Correct Answer: B
Section: Implementation
Explanation

Explanation/Reference:
QUESTION 24 What is the function of the 0xFFFFFC address in a Fibre
Channel fabric?

A. management server
B. fabric controller
C. name server
D. time server

Correct Answer: C
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 25
Refer to the exhibit.

```
switch# (config) interface fcip 51
switch# (config) use-profile 10
switch# (config) peer-info ipaddr 10.1.1.1
switch# (config) no shutdown

switch# show fcip profile 10
FCIP Profile 10
Internet Address is 10.0.0.10 (interface GigabitEthernet1/0)
Listen Port is 3225
TCP parameters
SACK is disabled
PMTU discovery is enabled, reset timeout is 3600 sec
Keep alive is 60 sec
Minimum retransmission timeout is 300 ms
Maximum number of re-transmissions is 4
Send buffer size is 0 KB
Maxumum allowed bandwidth is 1000000 kbps
Minimum available bandwidth is 15000 kbps
Estimated round trip time is 1000 usec
```

Which configuration change improves the ability of the link to recover from frame loss?

A. Increase the reset timeout.
B. Enable selective acknowledgment.
C. Increase the send buffer size to 15000 KB.
D. Disable PMTU discovery.

Correct Answer: B
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 26
An engineer is configuring a SAN environment and attempts to activate a zoneset, but a lock is held by another user. Which argument does the engineer use to clear the lock from the zoning database configuration?

A. commit
B. abort
C. clear
D. force

Correct Answer: C
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 27
A storage network engineer must install and configure a new MDS switch in a data center network. Which two statements about available choices during the MDS switch initial setup are correct? (Choose two.)

A. The engineer can choose what will be the administrator account.
B. The secure password standard is required.
C. The engineer can configure the default zone policy.
D. The engineer can configure the default switch port trunk mode.
E. The engineer does not have the choice to enable or disable full zoneset distribution.

Correct Answer: AC
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 28
A storage administrator is enabling DH-CHAP for the first time on a Fibre Channel fabric. Which condition must the administrator consider while configuring this feature?

A. NTP must be configured on all devices or the configuration fails.
B. The MD5 hash must be used if TACACS+ or RADIUS authentication for FCSP is enabled.
C. All switches on the fabric must be configured for the same password.
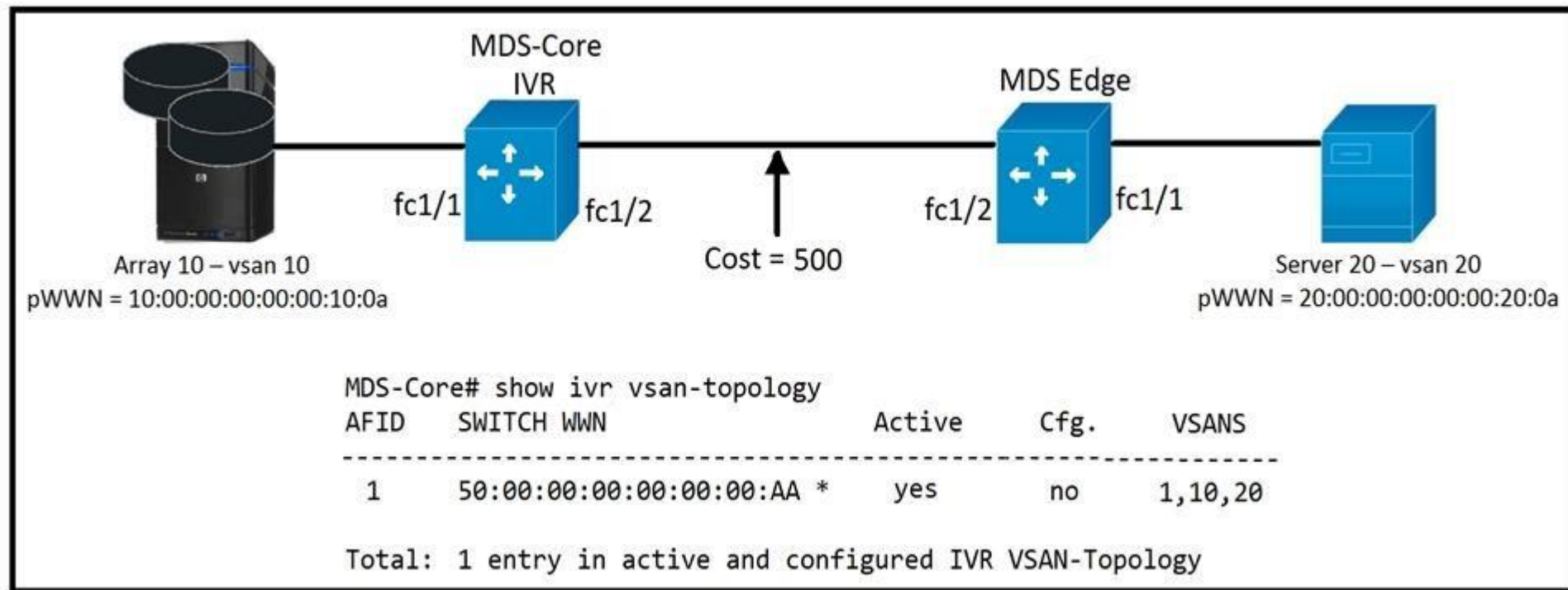D. Enabling DH-CHAP protocol feature is unsupported on FCIP interfaces.

Correct Answer: B
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 29
Refer to the exhibit.

```
                    MDS-Core
                    IVR                      MDS Edge

       [disk array]   [switch]                [switch]   [server]
                     fc1/1   fc1/2        fc1/2   fc1/1

Array 10 – vsan 10         Cost = 500           Server 20 – vsan 20
pWWN = 10:00:00:00:00:00:10:0a                  pWWN = 20:00:00:00:00:00:20:0a


MDS-Core# show ivr vsan-topology
AFID    SWITCH WWN                Active   Cfg.     VSANS
---------------------------------------------------------------
 1      50:00:00:00:00:00:00:AA *   yes     no      1,10,20

Total:  1 entry in active and configured IVR VSAN-Topology
```

An engineer is configuring Inter-VSAN routing for two Cisco MDS switches. The FSPF cost between the switches is 500, and the Cisco MDS core virtualizes an IVR NAT domain as shown. Which statement about the topology is correct?

A. The MDS-Core simulates an IVR NAT, and the FSPF cost is 500.
B. The MDS-Core simulates an IVR NAT, and increases the cost to 501.
C. The MDS-Core simulates an IVR NAT, and decreases the cost to 400.
D. The MDS-Core simulates an IVR NAT, and increases the cost to 600.

Correct Answer: B
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 30 Which action must be performed to deactivate a VSAN without losing its
configuration?

A. Isolate it.
B. Delete it.
C. Rename it.
D. Suspend it.

Correct Answer: D
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 31
Refer to the exhibit.

```
Switch 1
Ivr nat
ivr vsan-topology auto
ivr service-group name GROUP1
autonomous-fabric-id 100 vsan-ranges 1-3, 100
autonomous-fabric-id 1 switch 20:00:00:05:31:11:32:ac vsan-ranges 1
autonomous-fabric-id 1 switch 20:00:00:05:40:12:1e:dd vsan-ranges 1-3

Switch 2
ivr vsan-topology auto
ivr service-group name GROUP2
autonomous-fabric-id 100 vsan-ranges 1, 6-7, 200
autonomous-fabric-id 1 switch 20:00:00:05:31:11:32:ac vsan-ranges 1
autonomous-fabric-id 1 switch 20:00:00:05:40:12:1e:dd vsan-ranges 6-7
```

What is the result of merging the fabric?

A. The merged fabric IVR VSAN topology is set to activate.
B. The merged fabric has NAT enabled.
C. The merge is invalid.
D. The merged fabric contains only service group Group1.

Correct Answer: D
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 32
Refer to the exhibit.

```
interface Ethernet 1/10
  priority-flow-control mode auto
```

What is the result of the configuration?

A. No-drop CoS values are advertised by the DCBX.
B. LFC is prioritized over PFC on Ethernet 1/10.
C. PFC operates on Ethernet 1/10 regardless of the capability of the peer.
D. PFC fails to operate properly unless LFC is disabled on Ethernet 1/10.

Correct Answer: A
Section: Implementation
Explanation

Explanation/Reference:

QUESTION 33 Which configuration is needed to enable manual ESP mode for Fibre Channel TrustSec on Cisco MDS switches?

A. MDS(config)# **interface fc 1/1**
   MDS(config-if)# **fcsp esp manual**

B. MDS(config)# **fcsp esp manual**

C. MDS(config)# **interface fc 1/1**
   MDS(config-if)# **fcsp mode gcm**
   MDS(config-if-fcsp)# **fcsp esp manual**

D. MDS(config)# **interface fc 1/1**
   MDS(config-if)# **fcsp esp manual**
   MDS(config-if-fcsp)# **mode gcm**

Correct Answer: A
Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 34
A storage network engineer is implementing SAN telemetry for a SAN infrastructure using Cisco DCNM for SAN. Which command is used to check the session status for telemetry operation?

A. **show telemetry pipeline stats**
B. **show telemetry transport**
C. **show telemetry control stats**
D. **show analytics system-load**

Correct Answer: B
Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 35
Refer to the exhibit.

```
switch(config) # show zone status vsan 5
VSAN: 2 default-zone: deny distribute: full version Interop: default
mode: enhanced merge-control: allow
session: none
hard-zoning: enabled broadcast: unsupported
smart-zoning: disabled
rscan-format: fabric-address
activation overwrite control: enabled
Default zone:
qos: none broadcast: unsupported ronly: unsupported
Full Zoning Database :
DB size: 348 bytes
Zonesets: 2 Zones: 2 Aliases: 0 Attribute-groups: 1
Active Zoning Database :
DB size: 68 bytes
Name: zoneset Zonesets: 1 Zones: 1
Current Total Zone DB Usage: 416 / 2097152 bytes (0 % used)
Pending (Session) DB size:
Full DB Copy size: 0 bytes
Active DB Copy size: 0 bytes
SFC size: 0 / 2097152 bytes (0 % used)
Status: Commit completed at 12:10:29 UTC Jan 11 2019
```

Device alias information must be merged for two fabrics. Which setting must match on both fabrics before the merge can be performed successfully?

A. device-alias mode

B. session
C. qos
D. smart-zoning

Correct Answer: A
Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 36 Which benefit of upgrading to the Cisco DCNM server-based advanced feature license for a Cisco MDS
switch is correct?

A. The license can be reassigned when a switch is replaced with a newer version within the same product family.
B. The license can be assigned to either server MAC address or switch serial number.
C. An unlimited number of devices can be added to the list of licensed devices.
D. The license can be reassigned when the switch is replaced with a Cisco Nexus switch.

Correct Answer: A
Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 37
DRAG DROP

Drag and drop the DCNM configuration tasks from the left onto the correct tools on the right.

Select and Place:

Correct Answer:

Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 38 What does an unlicensed DCNM
SAN fail to display?

A. Fibre Channel, FCoE, and iSCSI topologies
B. events and fault management
C. historical performance monitoringD. real-time performance monitoring

Correct Answer: C
Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 39
Refer to the exhibit.

```
MDS-CORE# show running-config

role name VSAN-Admin
    rule 4 permit show
    rule 3 permit exec
    rule 2 permit debug
    rule 1 permit config
    vsan policy deny
```

A network engineer created a new user that uses the VSAN-Admin role on a Cisco MDS switch so a new colleague can manage the VSANs configured on the switch. Which action is required for the configuration to give permission to the new colleague?

A. **permit vsan 1-1000** must be configured as rule 5.
B. **permit vsan 1-1000** must be configured as rule 1.
C. **permit vsan 1-1000** must be configured under the VSAN policy deny.
D. **permit vsan 1-1000** must be configured under the VSAN policy allow.

Correct Answer: C
Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 40
DRAG DROP

Drag and drop the items from the left onto the correct descriptions on the right. Not all items are used.

Select and Place:

Correct Answer:

Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 41
A storage network engineer must configure a 48-port Cisco MDS switch to reject any login requests to VSAN 10 from unauthorized Fibre Channel devices and switches. All the devices that were already logged in to the switch from this VSAN must be allowed without any manual configuration. Which configuration must be applied?

A. switch(config)# **feature port-security** switch(config)# **port-security activate vsan 10** B. switch(config)# **feature port-security** switch(config)# **feature port-security** switch(config)# **port-security activate vsan 10 no auto-learn** C. switch(config)# **feature port-security** switch(config)# **port-security database vsan 10**
    switch(config-port-security)# **any-wwn interface fc1/1 – fc1/48**

D. switch(config)# **port-security activate vsan 10**
Correct Answer: D
Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 42
Refer to the exhibit.

```
username san-user password 5 $1$DybH1K9I$PWV.S2PODN1nvdX8E9a4W. role sangroup

MDS-A# sh users | i san
san-user pts/1 Jun 23 18:46 . 29473 (192.168.254.1) session=ssh

Role: sangroup
Description: new role
Vsan policy: deny
Permitted vsans: 10-30
-----------------------------------------------------------------
Rule Type Command-type Feature
-----------------------------------------------------------------
1 permit config *
2 deny config vsan
3 permit exec fcping

MDS-A(config)# fspf config vsan 500
% VSAN permission denied
```

The san-user must configure FSPF on the VSAN 500, but fails. An operator with network administrative rights must authorize the san-user to perform this work. Which configuration must the operator apply?

A. MDS-A(config)# **role name sangroup** MDS-A(config-role)# **no rule 2**

B. MDS-A(config)# **role name sangroup**
   MDS-A(config-role)# **rule 4 permit config feature fspf**

C. MDS-A(config)# **role name sangroup**
   MDS-A(config-role)# **rule 2 permit config feature vsan**

D. MDS-A(config)# **role name sangroup**
   MDS-A(config-role)# **vsan policy deny**
   MDS-A(config-role-vsan)# **permit vsan 500**

Correct Answer: D
Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 43 Which two protocols are used to implement SAN telemetry on Cisco MDS
switches? (Choose two.)

A. RPC transport
B. GPB transport
C. gRPC transport
D. gRPC encoding
E. GPB encoding

Correct Answer: CE
Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 44
Refer to the exhibit.

```
switch# sh run telemetry

feature telemetry
telemetry
  destination-group 100
    ip address 192.168.1.4 port 50004 protocol gRPC encoding GPB
  destination-group 200
    ip address 192.168.1.5 port 50005 protocol gRPC encoding GPB
  sensor-group 100
    path show_stats_fc1/1
  sensor-group 200
    path show_stats_fc1/2
  subscription 100
    dst-grp 100
    snsr-grp 100 sample-interval 30000
    snsr-grp 200 sample-interval 30000
  subscription 200
    snsr-grp 100 sample-interval 30000
    snsr-grp 200 sample-interval 30000
```

A network engineer must configure the SAN telemetry streaming feature to stream statistics form a Cisco MDS 9000 Series Switch to two external receivers with the IP addresses 192.168.1.4 and 192.168.1.5. Which two configurations accomplish this configuration? (Choose two.)

A. Add IP address 192.168.1.5 port 50005 protocol gRPC encoding GPB under destination-group 100.
B. Add IP address 192.168.1.5 port 50005 protocol gRPC encoding GPB under destination-group 300.
C. Add dst-grp 200 under subscription 100.D. Add dst-grp 300 under subscription 200.
E. Add dst-grp 100 under subscription 200.

Correct Answer: AC
Section: Management and Monitoring
Explanation
Explanation/Reference:

QUESTION 45
Refer to the exhibit.

```
switch-1 (config)# zoneset name Zone-B vsan 100
Zoning database update is progress, command rejected
```

Which command is used to determine which switch has the lock?

A. **show fcs ie vsan**
B. **show zoneset active**
C. **show zone status**
D. **show flogi database**

Correct Answer: C
Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 46 Which command identifies the application and the user that have a Cisco Fabric Services
session open?

A. **show cfs application**
B. **show zoneset active**
C. **show cfs lock**
D. **show device-alias database**

Correct Answer: A
Section: Management and Monitoring Explanation

Explanation/Reference:

QUESTION 47 A storage engineer is troubleshooting a Cisco MDS switch upgrade issue. What prevents the completion of a non-
disruptive upgrade?

A. The Fibre Channel host initiator is connected.
B. The Fibre Channel storage target is connected.
C. The Cisco Fabric Services operation in progress.
D. The Fibre Channel and FCoE storage targets are connected.

Correct Answer: B
Section: MDS Troubleshooting
Explanation

Explanation/Reference:
Reference: https://www.cisco.com/en/US/docs/storage/san_switches/mds9000/sw/rel_3_x/release/notes/14116.16.html

QUESTION 48
Refer to the exhibits.

```
Exibit 1:

MDS-A# show zoneset vsan 100
zoneset name ZoneSetMDS-A-VSAN100- vsan 100
MDS-A# show zoneset brief vsan 100
zoneset name ZoneSetMDS-A-VSAN500 vsan 100
     zone Host1-Strg1
     zone Host2-Strg2
MDS-A# show zoneset active vsan 100
zoneset name ZoneSetMDS-A-VSAN100 vsan 100
     zone name Host1-Strg1 vsan 100
       pwwn 20:00:00:25:b5:fa:00:11
       pwwn 50:05:07:68:0d:05:ac:11
     zone name Host2-Strg2 vsan 100
       pwwn 20:00:00:25:b5:fa:00:22
       pwwn 50:05:07:68:0d:05:ac:22
MDS-A# show zone status vsan 100
VSAN: 100 default-zone: deny distribute: active only Interop: default
     mode: basic merge-control: allow
     session: none
     hard-zoning: enabled broadcast: unsupported
     smart-zoning: disabled
     rscn-format: fabric-address
     activation overwrite control: disabled

Output omitted for brevity
```

```
Exhibit 2:

MDS-A# show zoneset vsan 100
zoneset name ZoneSetMDS-B-VSAN100- vsan 100
     zone name Host3-Strg3 vsan 100
       pwwn 20:00:00:25:b5:fa:00:33
       pwwn 50:05:07:68:0d:05:ac:33

MDS-A# show zoneset brief vsan 100
zoneset name ZoneSetMDS-A-VSAN100 vsan 100
```

A storage network engineer activates a zoneset on MDS-A and verifies the successful activation (*Exhibit 1*). The engineer is then notified that there is a SAN outage (*Exhibit 2*) What is the cause of the outage?

A. Another network engineer activated zoneset ZoneSetMDS-B-VSAN100 on MDS-A.
B. Another network engineer issued the **zone mode enhanced vsan 100** command on another switch in the fabric.
C. Another network engineer activated the **zoneset ZoneSetMDS-B-VSAN100** command on another switch in the fabric.
D. Another network engineer issued the **zone default-zone permit** vsan 100 command on another switch in the fabric.

Correct Answer: D
Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 49
Refer to the exhibit.

```
MDS-A# show run interface port-channel 2
interface port-channel2
channel mode active
switchport description ***Connected to FI***
switchport rate-mode dedicated

MDS-A# sh port-channel database
port-channel2
Administrative channel mode is active
Operational channel mode is active
Last membership update succeeded
First operational port is fc1/9
2 ports in total, 2 ports up
Ports: fc1/9 [up]  *
fc1/10 [up]
```

A port channel has been configured between a Cisco MDS and a Cisco Fabric Interconnect switch. Which interface(s) in the port channel carry the control plane traffic?

A. per packet, balanced between interfaces fc1/9 and fc1/10
B. from interface fc1/9
C. from interface fc1/10
D. per flow, balanced between interfaces fc1/9 and fc1/10

Correct Answer: D
Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 50
A storage administrator is upgrading Cisco NX-OS on a Cisco MDS switch. The administrator performs an ISSU upgrade following the configuration guide. While the install is proceeding, the administrator connects a new server to the switch, which cannot access storage. The existing servers continue to operate properly through the switch. Why is the new server failing to connect?

A. The fabric data plane resets as part of the upgrade process.
B. The new server is unable to log in to the fabric to receive an FC-ID.
C. The upgrade process disables any currently unused ports.
D. The zoning database is locked during the upgrade process.

Correct Answer: D
Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 51
Refer to the exhibit.

```
MDS-A# show run
...
!Activate Zone Database Section for vsan 10
zone name Server11 vsan 10
    member pwwn 11:11:11:11:11:11:11:11
    member pwwn 11:11:11:11:11:11:11:12
zoneset name Zoneset10-A vsan 10
    member Server11
zoneset activate name Zoneset10-A vsan 10
...

MDS-B# show run
...
!Activate Zone Database Section for vsan 10
zone name Server11 vsan 10
    member pwwn 11:11:11:11:11:11:11:11
    member pwwn 11:11:11:11:11:11:11:12
    member pwwn 11:11:11:11:11:11:11:13
zoneset name Zoneset10-B vsan 10
    member Server11
zoneset activate name Zoneset10-B vsan 10
...

MDS-A# show interface fc1/11
fc1/11 is trunking (Not All VSANs UP on the trunk)
    Port description is *** ISL-Trunk-MDS-B ***
    ....
    Port mode is TE
    Port vsan is 20
    ....
    Trunk vsans (admin allowed and active) (10,20)
    Trunk vsans (up)                        (20)
    Trunk vsans (isolated)                  (10)
    Trunk vsans (initializing)              ()
    ...

MDS-A# show log
...
... MDS-A %ZONE-2-ZS_MERGE_FULL_DATABAE_MISMATCH: %SVSAN 10%S Zone merge full database
mismatch on interface fc1/11
... MDS-A %ZONE-2-ZS_MERGE_FAILED: %SVSAN 10%S Zone merge failure, isolating interface
fc1/11 reason: Member mismatch:[reason:0]
... MDS-A %PORT-5-IF_TRUNK_DOWN: %SVSAN 10%S Interface fc1/11, vsan 10 is down
(Isolation due to zone merge failure) *** ISL-Trunk-MDS-B FC1/11 ***
```

A storage network engineer gets remote access to two Cisco MDS 9000 Series Switches with an ISL trunk and receives several log messages. Which set of actions resolve the problem while least affecting service?

A. 1. Add :11:11:11:11:11:11:11:13 pwwn in zone Server11 and activate Zoneset10-A on MDS-A.
    2. shut/no shut interface fc1/11 on MDS-A.

B. 1. Deactivate zone set Zoneset10-A on MDS-A.
    2. shut/no shut interface fc1/11 on MDS-A.

C. 1. Add :11:11:11:11:11:11:11:13 pwwn in zone Server11 and activate Zoneset10-A on MDS-A.

2. Remove VSAN 10 from the allowed VSAN range of interface fc1/11 on MDS-A and add it back in the range.

D. 1. Explicitly import zone set Zoneset10-A on MDS-B using the **zoneset import interface import fc1/11 vsan 10** command.
   2. Activate the zone set Zoneset10-A.

Correct Answer: A
Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 52
DRAG DROP

Drag and drop the boot issues from the left onto the correct solutions on the right.

Select and Place:

Correct Answer:

Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 53
A domain ID conflict is detected on a switch. Which action resolves the issue in the shortest possible time after the preferred domain ID is changed to a static domain ID?

A. Issue an fcdomain disruptive restart.
B. Issue an fcdomain nondisruptive restart.
C. Enter the commands for a VSAN suspend / no-suspend.
D. Enter the commands to complete a domain manager fast restart.

Correct Answer: A
Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 54
Refer to the exhibit.

```
switch-2# show zone status vsan 10
VSAN: 10 default-zone: deny distribute: active only Interop: default
    mode: enhanced merge-control: allow
    session: cli [admin]
    hard-zoning: enabled broadcast: enabled

Default zone:
    qos: none broadcast: disabled ronly: disabled
```

A user who is logged in as an operator cannot update the zoneset. What is the cause of this issue?

A. The fabric is locked by admin on switch-2.

B. Hard zoning is enabled.
C. Merge control is disabled.
D. The switch has a conflicting domain ID.
E. The fabric is locked by admin on another switch.

Correct Answer: A
Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 55 After a subordinate switch requests a domain ID form a principal switch, the requested domain ID becomes the runtime domain ID, and all interfaces on the affected VSAN are isolated. What is a solution to the issue?

A. Add the received ID to the allowed list.
B. Configure a static domain on the subordinate switch and reboot the switch.
C. Enable the FICON feature on the affected VSAN.
D. Configure IVR NAT on the affected VSAN.

Correct Answer: A
Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 56
The principal switch on a Fibre Channel network fails to assign requested domain to a subordinate switch. What are two reasons? (Choose two.)

A. Cisco Fabric Services distribution is not enabled on the switch.
B. The fabric is locked.
C. The requested domain is outside the allowed list.
D. The persistent FC ID feature is not enabled.
E. An existing switch already has the requested domain assigned.

Correct Answer: CE
Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 57
A storage administrator is connecting two previously configured switches to make a single fabric. When the E Ports are connected, the administrator sees a ZONE MERGE FAILURE message referring to the zoneset for VSAN 10 on each switch. Which command should the administrator use to allow these switches to work together?

A. **zoneset import interface fc1/1 vsan 10**
B. **zoneset distribute full vsan 10**
C. **zoneset overwrite-control vsan 10**
D. **zoneset copy active-zoneset full-zoneset**

Correct Answer: A
Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 58
A storage administrator manually configures a storage switch to use a new static domain ID. After issuing an **fcdomain restart vsan 1** command, the administrator sees that the switch is still using the existing domain ID. What is the reason why the configuration is not working?

A. Static domain IDs apply only after a switch is rebooted.
B. The disruptive keyword was not used on the command.
C. Build fabric notifications were not sent to the other switches.
D. Domain manager fast restart is not enabled on the switch.

Correct Answer: A
Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 59
Two stable fabrics have overlapping domains. After a switch from the first domain is joined to a switch from the second domain, both switches become isolated. What caused the problem?

A. The autoreconfigure option is disabled on both switches.
B. The autoreconfigure option is enabled on both switches.
C. The rcf-reject option is enabled on the interfaces.
D. The rcf-reject option is disabled on the interfaces.

Correct Answer: A
Section: MDS Troubleshooting
Explanation

Explanation/Reference:

QUESTION 60
A storage network engineer is upgrading a Cisco MDS Director with dual supervisor modules. The install command is executed on the standby supervisor module but fails. Which action would have prevented this failure?

A. All FCoE interfaces configured on the MDS must be shut down before starting the upgrade.
B. The upgrade must be done on the active supervisor module only.
C. Cisco Fabric Services must be disabled before starting the upgrade.
D. Fabric Controller Service must be stopped before starting the upgrade.

Correct Answer: B
Section: MDS Troubleshooting
Explanation

Explanation/Reference: