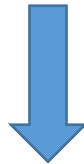# NetApp Certification NS0-191 Exam

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> **Vendor: Network Appliance**

> **Exam Code: NS0-191**

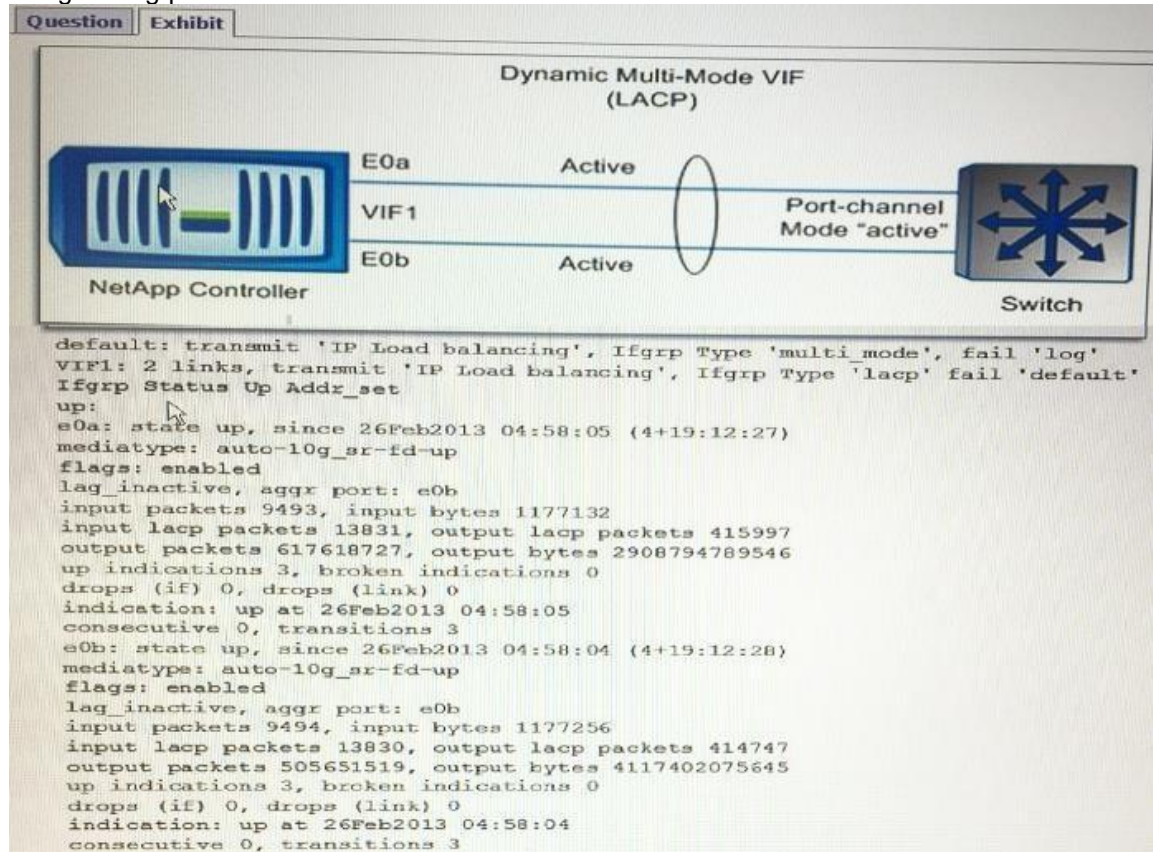> **Exam Name: NetApp Certified Support Engineer (NCSE)**

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QUESTION 1
Referring to the exhibit. The exhibit shows an overview of a customer's network design. The customer is experiencing ping loss. As part of the troubleshooting process, you receive output by using the if grp status command from the node shell.

In this scenario, what is the customer's problem?

A. The interface group on the controller is not using the default type, causing a connection mismatch with the switch.
B. Link aggregation is not active on the switch, despite being in the design.
C. Virtual interface (VIF) is deprecated in clustered Data ONTAP because the interface group is not working as it should.
D. Virtual LANs (VLANs) are not used, which causes the interfaces to be overloaded.

Answer: C

QUESTION 2
You are creating a disk-partitioned root aggregate. Which two rules are enforced automatically when accomplishing this task? (Choose two.)

A. A RAID group cannot have more than one partition from the same disk.
B. A RAID group can have more than one partition from the same disk.
C. The only supported RAID type for aggregates containing root-data partitioned disks is RAID-DP.
D. The only supported RAID type for aggregates containing root-data partitioned disks is RAID 4.

Answer: AC
Explanation:
https://kb.netapp.com/support/s/article/faq-advanced-disk-partitioning-rules?language=en_US

QUESTION 3
What is the next step if you must escalate an open case?

A. Upload the support case and core data files to NetApp Suport and to Engineering.
B. Clustered Data ONTAP triggers the AutoSupport mechanism automatically again.
C. Call NetApp Support and ask to speak to the duty manager.
D. Call NetApp Support and open a new case.

Answer: C

QUESTION 4
You are planning to move to a newer clustered Data ONTAP version. Which two resources should you review prior to the move? (Choose two.)

A. Software Setup Guide
B. IMT
C. Upgrade Advisor
D. System Administration Guide for Cluster Administrators

Answer: BC

QUESTION 5
A 2 node cluster (Node-1 and Node-2) has suffered a takeover event. The down node (Node-1) is currently waiting for giveback. However, it is unsure if the node will boot successfully. The client suffer any data outage. Which command would you use to perform the giveback?

A. CLUSTER::> storage failover giveback -of node Node-1-only-do-aggregates
B. CLUSTER::> storage failover giveback -from node Node-2
C. CLUSTER::> storage failover giveback -of node Node-1-require-partner-waiting false
D. CLUSTER::> storage failover giveback -of node Node-1-override-vetoes true cannot

Answer: B
Explanation:
https://library.netapp.com/ecmdocs/ECMP1196905/html/GUID-489519BE-0841-49B7-92F2-2B3034A53BC2.html

Commands for performing a manual giveback

You can manually initiate a giveback on a node in an HA pair to return storage to the original owner after completing maintenance or resolving any issues that caused the takeover.

If you want to...	Use this command...
Give back storage to a partner node	`storage failover giveback -ofnode nodename`
Give back storage even if the partner is not in the waiting for giveback mode	`storage failover giveback -ofnode nodename -require-partner-waiting false` This option should be used only if a longer client outage is acceptable.
Give back storage even if processes are vetoing the giveback operation (force the giveback)	`storage failover giveback -ofnode nodename -override-vetoes true`
Give back only the CFO aggregates (the root aggregate)	`storage failover giveback -ofnode nodename -only-cfo-aggregates true`
Monitor the progress of giveback after you issue the giveback command	`storage failover show-giveback`

QUESTION 6
You have an aggregate with 10 TB of free space. You create a 5 TB volume with space-guarantee set to none and fractional reserve set to 0. Inside the volume, you create a 100 GB space-reserved LUN. In this scenario, how much free space is left in the aggregate?

A. 9.8 TB
B. 9.9 TB
C. 5 TB
D. 10 TB

Answer: B
Explanation:
https://library.netapp.com/ecmdocs/ECMP1196986/html/GUID-C9F36C22-8A46-4D44-B74D-54B56F834D29.html

QUESTION 7
You just set up a new clustered Data ONTAP 8.3 environment and want to monitor volume performance. Which two commands or products would help you accomplish this task? (Choose two.)

A. OnCommand Performance Manager
B. Quality of Service (QoS) commands
C. OnCommand System Manager
D. Syslog Server

Answer: BC
Explanation:
https://library.netapp.com/ecmdocs/ECMP1610202/html/qos/statistics/volume/performance/show.html

QUESTION 8
Your storage system has experienced a double-disk failure. When is this scenario considered to be in double-degraded mode?

A. when two disks failed on a node
B. when two disks failed on a single aggregate
C. when two disks failed in a single RAID group
D. when two disks failed on a single disk shelf

Answer: C
Explanation:
https://library.netapp.com/ecmdocs/ECMP1196912/html/GUID-1008E88A-E1D7-4043-9186-613084601417.html

QUESTION 9
A Linux client is experiencing low throughput when reading a very large file using NFS. Network counters suggest there is packet drop in the network. To confirm whether dropped packets affect the Linux client, you are collecting network traces from the affected systems. In this scenario, which two actions would be used? (Choose two.)

A. Use the tcpdump command on the Linux system.
B. Use the pktt command on the NetApp controller.
C. Use the traceroute command on the network switch.
D. Use the tcptrace command on a Windows client In a separate subnet.

Answer: BC

QUESTION 10
Which statement is true about a switch less cluster?

A. A switchless cluster can only be used for a system with two controllers in one chassis configuration.
B. A switch less cluster can support up to one node per cluster port.
C. In a switchless cluster, the network options switchless-cluster -enabled parameter must be set to true.
D. Converting a switch less cluster to a switched cluster is disruptive.

Answer: C

QUESTION 11
When troubleshooting the delivery failure of an AutoSupport notification, you enter the autsupport history show command. In this scenario, what Information would you expect the command output to show? (Choose two.)

A. time of the last update
B. status of the delivery
C. size of the AutoSupport notification
D. IP address of the destination

Answer: BD
Explanation:
https://library.netapp.com/ecmdocs/ECMP1196798/html/GUID-89735187-2E77-4F07-B9F5-C899CBD3AFBC.html

QUESTION 12
Referring to the exhibit. A customer is attempting to protect the source volume listed in the exhibit. They try to initialize a DP mirror relationship to the destination volume but it will not initialize as expected. Which two settings on the destination volume are causing this problem? (Choose two.)

A. language
B. type
C. volume size
D. max-autosize

Answer: BD

QUESTION 13
Referring to the exhibit. A customer contacts you and asks for assistance in determining which ports can be used for a new broadcast domain on a clustered Data ONTAP 8.3.2 system. The system is serving LUNs using the FC protocol and is in production. However, for Ethernet traffic, it is not yet in production. The customer provides you the output of the network port show command. Referring to the exhibit, which ports will be eligible to create a new broadcast domain without impacting production storage virtual machines (SVMs) serving FC LUNs?

```
Node  Port  IPspace  Broadcast  Domain  Link  MTU  Admin/Oper
-----  ----------  -------------  ---------------  -------  -----  --
node1
e0a  Cluster  Cluster  up  9000  auto/1000
e0b  Cluster  Cluster  up  9000  auto/1000
e0c  Default  Default  up  1500  auto/1000
e0d  Default  Default  up  1500  auto/1000
e0e  Default  Default  up  1500  auto/1000
e0f  Default  Default  up  1500  auto/1000
e0g  Default  Default  up  1500  auto/1000
node2
e0a  Cluster  Cluster  up  9000  auto/1000
e0b  Cluster  Cluster  up  9000  auto/1000
e0c  Default  Default  up  1500  auto/1000
e0d  Default  Default  up  1500  auto/1000
e0e  Default  Default  up  1500  auto/1000
e0f  Default  Default  up  1500  auto/1000
e0g  Default  Default  up  1500  auto/1000
```

A. any port in the cluster broadcast domain on node1 and node2
B. any port on model
C. any port in the Default broadcast domain on node1 and node2
D. any port on node2

Answer: C

QUESTION 14
Which two capabilities does the Flash Cache feature have that the Flash Pool feature does not have? (Choose two.)

A. Flash Cache works for all aggregates assigned to a node.
B. Flash Cache is a read-only cache.
C. Cached data is available and unaffected by takeover events.
D. Compressed blocks are cached.

Answer: AB
Explanation:
https://library.netapp.com/ecmdocs/ECMP1196912/html/GUID-B347C746-FD91-484D-8BA6-A23D7C05EABE.html

QUESTION 15
Referring to the exhibit. Your customer has recently migrated from their FAS3140 system running Data ONTAP 7.3.7 to a FAS2552 system running Data ONTAP 8.2.3 7-Mode through the head upgrade process. They are no longer receiving the weekly AutoSupport notifications and want to know why. The exhibit shows the AutoSupport options from the nodes that have the same settings. In this scenario, which solution is correct?

```
autosupport.content complete
autosupport.doit MANAGEMENT_LOG
autosupport.enable on
autosupport.from postmaster@customer.local
autosupport.local_collection on
autosupport.mailhost mailrelay
autosupport.max_http_size 10485760
autosupport.max_smtp_size 5242880
autosupport.minimal.subject.id systemid
autosupport.nht_data.enable on
autosupport.noteto
autosupport.ondemand.polling_interval 60
autosupport.ondemand.remotediag.state on
autosupport.ondemand.server_url https://support.netapp.com/aods/asupmessage
autosupport.ondemand.state on
autosupport.partner.to autosupport@partner.com
autosupport.payload_format 7z
autosupport.performance_data.doit DONT
autosupport.performance_data.enable on
autosupport.periodic.tx_window 1h
autosupport.retry.count 15
autosupport.retry.interval 4m
autosupport.support.enable off
autosupport.support.proxy
autosupport.support.put_url support.netapp.com/put/AsupPut
autosupport.support.reminder on
autosupport.support.to autosupport@netapp.com
autosupport.support.transport https
autosupport.support.url support.netapp.com/asupprod/post/1.0/postAsup
autosupport.throttle on
autosupport.to admin@customer.com
autosupport.validate_digital_certificate on
```

A. There is no reason on the FAS2552 side why the customer should not receive the AutoSupport notifications. They should investigate their mail server to troubleshoot this issue.
B. In Data ONTAP 8.2, weekly AutoSupport notifications are no longer sent to the autosupport.to recipient, but only to autosupport.partner.to and to autosupport.support.to.
   The customer needs to add their e-mail address to one of these options.
C. In Data ONTAP 8.2, the protocol for AutoSupport is changed to HTTPS by default, so the customer must have an HTTPS destination for the AutoSupport data.
D. In Data ONTAP 8.2, weekly AutoSupport notifications are no longer sent to all recipients to reduce the mail load. The customer should add their e-mail address to the autosupport partner to option.

Answer: B

QUESTION 16
A customer mentions that after replacing a failed power supply, their FAS2220 system is now unavailable. Which statement is correct In this scenario?

A. The FAS2220 system requires that the power supply is replaced within two minutes after removal.
B. The power supply is not hot-swappable on a FAS2220.
C. The FAS2220 system requires both power supplies properly functioning to serve data.
D. The FAS2220 system shut down after 15 minutes due to having only one power supply installed.

Answer: A
Explanation:
Replacing a power supply involves turning off, disconnecting, and removing the old power supply. Installing a power supply involves installing, connecting, and turning on the replacement power supply. You must replace a power supply within two minutes of removal to prevent system shutdown due to disruption of airflow.

QUESTION 17
Which database must be installed for deployments of OnCommand Unified Manager 6.x and

OnCommand Performance Manager for Linux installations?

A. Oracle
B. MS SQL Server
C. Sybase
D. MySQL

Answer: D
Explanation:
https://library.netapp.com/ecm/ecm_get_file/ECMP1242988

QUESTION 18
Referring to the exhibit. A customer receives "CLUSTER NMWORK DEGRADED" AutoSupport messages from this clustered Data ONTAP system. The customer suspects that something occurred physically to the nodes after they had a data center maintenance move. The customer proceeds to follow the instructions in the Knowledge Base article regarding the "Error: CLUSTER NETWORK DEGRADED" message that results in the output shown In the exhibit. After analysis, the customer decides to replace the small form-factor pluggable (SFP) transceivers and the cables on the system. Which statistic supports the customer's analysis?

```
::> node run −node node2 ifstat e1a
-- interface e1a (13 days, 22 hours, 41 minutes, 31 seconds) --

RECEIVE

Frames/second: 39 | Bytes/second: 9956 | Errors/minute: 0
Discards/minute: 0 | Total frames: 37211k | Total bytes: 6257m
Total errors: 0 | Total discards: 0 | Multi/broadcast: 451k
No buffers: 0 | Non-primary u/c: 0 | L2 terminate: 0
Tag drop: 0 | Vlan tag drop: 0 | Vlan untag drop: 0
Vlan forwards: 0 | All pkts: 37238k | MCast pkts: 442k
BCast pkts: 9155 | CRC errors: 298943245 | Bus overrun: 0
Alignment errors: 0 | Long frames: 0 | Jabber: 0
Pause frames: 0 | Runt frames: 0 | Jumbo frames: 176k
All pkts: 26033k | MCast pkts: 20079 | BCast pkts: 940
Bus underruns: 0 | Pause frames: 0 | Jumbo frames: 703k

TRANSMIT

Frames/second: 31 | Bytes/second: 9316 | Errors/minute: 0
Discards/minute: 0 | Total frames: 26030k | Total bytes: 8434m
Total errors: 0 | Total discards: 0 | Multi/broadcast: 21020
Queue overflows: 0 | No buffers: 0

LINK_INFO
Current state: up | Up to downs: 2 | Speed: 10000m
Duplex: full | Flowcontrol: none
```

A. BCast pkts
B. CRC errors
C. Jumbo frames
D. Multi/broadcast

Answer: B

QUESTION 19
An administrator reviewing the message logs for a node notices an instance of a node reporting duplicate IPs for approximately ten seconds. Data access was not reported as interrupted during that time. In this scenario, which process would generate these messages?

A. vldb
B. mgwd
C. bcomd
D. vifmgr

Answer: D

QUESTION 20
Referring to the exhibit. A storage administrator tells you that a company security mandate was applied to remove all CIFS share level permissions of everyone - full control. Now users are unable to access CIFS shares. The storage virtual machine (SVM) is named "SVMl" on clustered Data ONTAP 8.3.1. The storage administrator wants to know what can be done to restore full control access to users that are receiving "access denied" errors. The storage administrator has provided you with the vserver cifs share show command output of one of the CIFS shares with issues as shown in the exhibit. Which two steps must you perform to solve the problem? (Choose two.)

```
cluster::> cifs share show -vserver SVM1 -share-name test9

Vserver: SVM1
Share: test9
CIFS Server NetBIOS Name: SVM1
Path: /test9
Share Properties: oplocks
browsable
changenotify
Symlink Properties: symlinks
File Mode Creation Mask: -
Directory Mode Creation Mask: -
Share Comment: -
Share ACL: Everyone / No access
domainA\companyusers / Full Control
domainA\interngroup / No access
domainA\temps / Read
File Attribute Cache Lifetime: -
Volume Name: vol9
Offline Files: manual
Vscan File-Operations Profile: standard
Maximum Tree Connections on Share: 4294967295
UNIX Group for File Create: -
```

A. Execute the ::> vserver cifs share access-control delete -vserver SVMl -share test9 -user-or-group Everyone command from the controller.
B. Execute the ::> vserver cifs share access-control delete -vserver SVMl -share test9 -user-or-group domainA \interngroup command from the controller.
C. Ensure that, in Active Directory, the desired users are members of the domainA\temps group.
D. Ensure that, in Active Directory, the desired users are members of the domainA\companyusers group.

Answer: BD

QUESTION 21
Referring to the exhibit.

```
===== SYSCONFIG-A =====
NetApp Release 8.2.1 Cluster-Mode: Fri Mar 21 14:48:58 PDT 2014
System ID: 654321 (filer12); partner ID: 234567 (filer11)
System Serial Number: 1111111111 (filer12)
System Storage Configuration: Multi-Path HA
System ACP Connectivity: Full Connectivity
slot 0: System Board 2.0 GHz (System Board XX B3)
Model Name: FAS8020
Service Processor Status: Online
Firmware Version: 3.0
```

```
Before the event:
===== ENVIRONMENT =====
Channel: 0b
Shelf: 20
SES device path: local access: 1b.20.99
Module type: IOM6; monitoring is active
Shelf status: critical condition
SES Configuration, shelf 20:
logical identifier=0x500a09800355b174
vendor identification=NETAPP
product identification=DS2246
product revision level=0162
Shelf bays with disk devices installed:
23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0
with error: none
Power Supply installed element list: 1, 2; with error: none
Power Supply information by element:
[1] Serial number: XXT134600052 Part number: 114-00065+A2
Type: 9C
Firmware version: 020F Swaps: 0
[2] Serial number: XXT134699988 Part number: 114-00065+A2
Type: 9C
Firmware version: 020F Swaps: 0
Voltage Sensor installed element list: 1, 2, 3, 4; with error: none
Shelf voltages by element:
[1] 5.00 Volts Normal voltage range
[2] 12.04 Volts Normal voltage range
[3] 5.00 Volts Normal voltage range
[4] 12.04 Volts Normal voltage range
Current Sensor installed element list: 1, 2, 3, 4; with error: none
Shelf currents by element:
[1] 6440 mA Normal current range
[2] 0 mA Normal current range
[3] 7220 mA Normal current range
```

```
[4] 0 mA Normal current range
Cooling Unit installed element list: 1, 2, 3, 4; with error: 1, 2, 3, 4
Cooling Units by element:
[1] 8000 RPM
[2] 8000 RPM
[3] 8000 RPM
[4] 8020 RPM
Temperature Sensor installed element list: 1, 2, 3, 4, 5, 6, 7, 8; with error: none
Shelf temperatures by element:
[1] 18 C (64 F) (ambient) Normal temperature range
[2] 21 C (69 F) Normal temperature range
[3] 20 C (68 F) Normal temperature range
[4] 42 C (107 F) Normal temperature range
[5] 19 C (66 F) Normal temperature range
[6] 41 C (105 F) Normal temperature range
[7] 20 C (68 F) Normal temperature range
[8] 20 C (68 F) Normal temperature range
ES Electronics installed element list: 1, 2; with error: none
ES Electronics reporting element: 1
ES Electronics information by element:
[1] Serial number: 7900483514 Part number: 111-00190+B0
CPLD version: 23 Swaps: 0
[2] Serial number: 7900476781 Part number: 111-00190+B0
CPLD version: 23 Swaps: 0
ACP installed element list: 1, 2; with error: none
SAS Expander Module installed element list: 1, 2; with error: none
SAS Expander master module: 1
```

```
===== EMS-LOG-FILE.G2 =====
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: ses.status.fanError:critical]: DS2246 (S/N
SHFHU1410000633) shelf 20 on channel 1b cooling fan error for Cooling element 1: critical
status. This module is on the rear of the shelf on the lower left power supply.
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: callhome.shlf.fan:EMERGENCY]: Call home for
SHELF COOLING UNIT FAILED
```

```
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: ses.status.fanError:critical]: DS2246 (S/N
SHFHU1410000633) shelf 20 on channel 1b cooling fan error for Cooling element 2: critical
status. This module is on the rear of the shelf on the lower left power supply.
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: callhome.shlf.fan:EMERGENCY]: Call home for
SHELF COOLING UNIT FAILED
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: ses.status.fanError:critical]: DS2246 (S/N
SHFHU1410000633) shelf 20 on channel 1b cooling fan error for Cooling element 3: critical
status. This module is on the rear of the shelf on the lower left power supply.
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: callhome.shlf.fan:EMERGENCY]: Call home for
SHELF COOLING UNIT FAILED
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: ses.status.fanError:critical]: DS2246 (S/N
SHFHU1410000633) shelf 20 on channel 1b cooling fan error for Cooling element 4: critical
status. This module is on the rear of the shelf on the lower right power supply.
[?] Fri Nov 28 15:18:39 CET [filer12: dsa_worker4: callhome.shlf.fan:EMERGENCY]: Call home for
SHELF COOLING UNIT FAILED
```

```
After the event:
===== ENVIRONMENT =====
Environment for channel 0b
Number of shelves monitored: 2 enabled: yes
Environmental failure on shelves on this channel? yes

Channel: 0b
Shelf: 20
SES device path: local access: 1b.20.99
Module type: IOM6; monitoring is active
Shelf status: normal condition
SES Configuration, shelf 20:
logical identifier=0x500a09800355b174
vendor identification=NETAPP
product identification=DS2246
product revision level=0162
Shelf bays with disk devices installed:
23, 22, 21, 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1, 0
with error: none
```

```
Power Supply installed element list: 1, 2; with error: none
Power Supply information by element:
[1] Serial number: XXT134600052 Part number: 114-00065+A2
Type: 9C
Firmware version: 020F Swaps: 1
[2] Serial number: XXT134699988 Part number: 114-00065+A2
Type: 9C
Firmware version: 020F Swaps: 0
Voltage Sensor installed element list: 1, 2, 3, 4; with error: none
Shelf voltages by element:
[1] 5.00 Volts Normal voltage range
[2] 12.04 Volts Normal voltage range
[3] 5.00 Volts Normal voltage range
[4] 12.04 Volts Normal voltage range
Current Sensor installed element list: 1, 2, 3, 4; with error: none
Shelf currents by element:
[1] 6710 mA Normal current range
[2] 0 mA Normal current range
[3] 7220 mA Normal current range
[4] 0 mA Normal current range
Cooling Unit installed element list: 1, 2, 3, 4; with error: none
Cooling Units by element:
[1] 0 RPM
[2] 0 RPM
[3] 0 RPM
[4] 0 RPM
```

```
Temperature Sensor installed element list: 1, 2, 3, 4, 5, 6, 7, 8; with error: none
Shelf temperatures by element:
[1] 0 C (32 F) (ambient) Normal temperature range
[2] 0 C (32 F) Normal temperature range
[3] 0 C (32 F) Normal temperature range
[4] 0 C (32 F) Normal temperature range
[5] 0 C (32 F) Normal temperature range
[6] 0 C (32 F) Normal temperature range
[7] 0 C (32 F) Normal temperature range
[8] 0 C (32 F) Normal temperature range
ES Electronics installed element list: 1, 2; with error: none
ES Electronics reporting element: 1
SAS connector attached element list: 1, 2, 3, 4; with error: none
ACP installed element list: 1, 2; with error: none
ACP information by element:
[1] MAC address: 00:A0:98:70:FB:A4
[2] MAC address: 00:A0:98:70:FA:B2
SAS Expander Module installed element list: 1, 2; with error: none
SAS Expander master module: 2
```

Which two steps would you perform to correct the problem shown in the exhibit? (Choose two.)

A. Reseat the power supplies.
B. Perform a takeover and giveback.
C. Replace the shelf chassis.
D. Reseat the shelf modules.

Answer: BD

QUESTION 22
When a write from a SAN host is received, the information is written within a storage controller before going to RAID. In this scenario, which two main components are used? (Choose two.)

A. Flash Pool
B. system memory
C. NVRAM
D. FlexCache

Answer: BC
Explanation:

http://www.flackbox.com/netapp-wafl-nvram-system-memory-cache/

QUESTION 23
A new storage efficiency job is executed on a volume hosting only a thick-provisioned LUN. Although 45% of the space was saved, no extra space was seen by the client. In this scenario, which statement is correct?

A. The client sees only the logical space for the LUN.
B. There are volume Snapshot copies that were taken before the efficiency job.
C. The client needs to re-scan the volume to detect the changes.
D. The volume is thin provisioned.

Answer: C

QUESTION 24
A hosting company is about to deploy a Microsoft Hyper-V environment connected to NetApp storage. They want to know which version of SMB and Data ONTAP should be deployed in this environment that supports continuously available shares. In this scenario, what do you tell the customer?

A. Data ONTAP /Mode and SMB 3
B. clustered Data ONTAP and SMB 3
C. clustered Data ONTAP and SMB 2.1
D. Data ONTAP 7 Mode and SMB 2.1

Answer: B
Explanation:
https://library.netapp.com/ecm/ecm_download_file/ECMLP2426792

QUESTION 25
After a storage administrator turned off IP fast path, all the NFS clients lost connectivity to the storage controller. Which statement describes what happened in this scenario?

A. The NFS clients are using NFS over UDP.
B. All clients are in the local broadcast domain.
C. The ARP cache Ss flushed when IP fast path disabled.
D. No default gateway is configured.

Answer: A

QUESTION 26
Referring to the exhibit.

```
NetApp Release 8.1.4P7 7-Mode: Fri Nov 21 02:12:14 PST 2014
System ID: 11111111 (filer2); partner ID: 222222222 (filer3)
System Serial Number: 888888888 (C4NLAMSYMD9)
System Rev: E1
System Storage Configuration: Multi-Path HA
System ACP Connectivity: NA
slot 0: System Board 2.5 GHz (System Board XI B3)
Model Name: FAS6080
Part Number: 110-00140
Remote LAN Module Status: Online
Firmware Version: 4.1
slot 0: FC Host Adapter 0a (QLogic 2432 rev. 2, N-port, <UP>)
Firmware rev: 5.4.100
Host Port Id: 0x30100
FC Node Name: 5:00a:098300:27c24a
FC Port Name: 5:00a:098300:27c24a
SFP Vendor: AVAGO
SFP Part Number: AFBR-57R6APZ-NA1
SFP Serial Number: B91102AZ1D
SFP Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch3:1
switch1:15.44 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YEN49L)
switch1:15.45 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YG1U3L)
switch1:6.80 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YBPHXL)
slot 0: FC Host Adapter 0c (QLogic 2432 rev. 2, N-port, <UP>)
Firmware rev: 5.4.100
Host Port Id: 0x40100
FC Node Name: 5:00a:098100:27c24a
FC Port Name: 5:00a:098100:27c24a
SFP Vendor: AVAGO
SFP Part Number: AFBR-57R6APZ-NA1
SFP Serial Number: B91102AUL2
```

```
SFP Serial Number: B91102AUL2
SFP Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch4:1
switch2:15.44 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YEN49L)
switch2:15.45 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YG1U3L)
switch2:6.80 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YBPHXL)
slot 0: FC Host Adapter 0e (QLogic 2432 rev. 2, N-port, <UP>)
Firmware rev: 5.4.100
Host Port Id: 0x30200
FC Node Name: 5:00a:098700:27c24a
FC Port Name: 5:00a:098700:27c24a
SFP Vendor: AVAGO
SFP Part Number: AFBR-57R6APZ-NA1
SFP Serial Number: B91102AUW0
SFP Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch3:2
switch1:15.44 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YEN49L)
switch1:15.45 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YG1U3L)
switch1:6.80 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YBPHXL)
slot 0: FC Host Adapter 0g (QLogic 2432 rev. 2, N-port, )
Firmware rev: 5.4.100
Host Port Id: 0x40200
FC Node Name: 5:00a:098500:27c24a
FC Port Name: 5:00a:098500:27c24a
SFP Vendor: AVAGO
SFP Part Number: AFBR-57R6APZ-NA1
SFP Serial Number: B91102AUL4
SFP Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch4:2
switch2:15.44 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YEN49L)
switch2:15.45 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YG1U3L)
switch2:6.80 : NETAPP X292_HVIPC560F15 NA03 560.0GB 520B/sect (J9YBPHXL)
slot 1: FCVI Host Adapter 1a (QLogic 2432(2462) rev. 3, F-port, <UP>)
Physical link: UP
```

```
FC Node Name: 21:00:00:24:ff:2a:5a:c2
Firmware rev: 5.3.140 Serial No: RFD1013A65553
Host Port Id: 0x30000
Cacheline size: 16 FC Packet size: 2048
SFF Vendor: FINISAR CORP.
SFF Part Number: FTLF8524E2KNL
SFF Serial Number: PHB1SBF
SFF Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch3:0
I/O base 0x0000000000007000, size 0x100
memory mapped I/O base 0xfe600000, size 0x4000
slot 1: FCVI Host Adapter 1b (QLogic 2432(2462) rev. 3, F-port, <UP>)
Physical link: UP
FC Node Name: 21:00:00:24:ff:2a:5a:c3
Firmware rev: 5.3.140 Serial No: RFD1013A65553
Host Port Id: 0x40000
Cacheline size: 16 FC Packet size: 2048
SFF Vendor: FINISAR CORP.
SFF Part Number: FTLF8524E2KNL
SFF Serial Number: PHB5WSV
SFF Capabilities: 1, 2 or 4 Gbit
Link Data Rate: 4 Gbit
Switch Port: switch4:0
I/O base 0x0000000000007400, size 0x100
memory mapped I/O base 0xfe604000, size 0x4000

===== SYSCONFIG-R =====
RAID group /aggr3/plex1/rg1 (normal, block checksums)

RAID Disk Device HA SHELF BAY CHAN Pool Type RPM Used (MB/blks) Phys (MB/blks)
--------- ------ -- ----- --- ---- ---- ---- ----- --------------- ---------------
dparity switch1:15.45 0a 2 13 FC:B 1 FCAL 15000 560000/1146880000 560879/1148681096
parity switch1:11.29 0a 1 13 FC:B 1 FCAL 15000 560000/1146880000 560208/1147307688
data switch2:14.74 0c 4 10 FC:A 1 FCAL 15000 560000/1146880000 560879/1148681096
```

You are provided output from the sysconfig -a and sysconfig –r commands of a MetroCluster cluster for disk switch1:15.45 SN#J9YG1U3L, as shown in the exhibit. Which two statements are true in this scenario? (Choose two.)

A. The disk is located at the filer2 site.
B. The disk is located in switch3.
C. The disk is located at the filer3 site.
D. The disk is in shelf 2 bay 13.

Answer: CD

QUESTION 27
A user on an NFSv4 client is listing a directory and sees the file in an is -1 listing shown below:
`"rwr------1 nobody nobody 10767 Mar 24 2016 party.txt"`
The customer would like to know why the user and group shows as "nobody". Which statement would explain why this is happening?

A. The permissions does not allow for listing the owner.
B. There is an NFSv4 ID domain mismatch.
C. There is no owner or group set on the file.
D. The file resides on an NTFS style volume.

Answer: B
Explanation:
https://kb.netapp.com/support/s/article/ka11A00000015igQAA/troubleshooting-workflow-user-and-the-user-group-displayed-as-nobody-in-nfs-v4?language=en_US
The id-domain settings are out of order. How to determine if this is the cause? On an NFS v4 mounted directory, all the files and directories are listed as 'owned', and group as owned by 'nobody'. Additionally, the following EMS message is displayed, which indicates that the client's domain does not match the Vserver's domain: Nblade.Nfsv4NsdbDomainMismatch. The EMS message is displayed when the error is encountered.

QUESTION 28
As part of your backup policy, you configured a local snapshot schedule on your production volume. You review the list of Snapshot copies and you do not see a snapshot from last night. What are two causes for this problem? (Choose two.)

A. The volume had 255 Snapshot copies.
B. A storage takeover happened.
C. Snapshot autodelete is enabled.
D. The volume snapshot reserve was decreased.

Answer: AD
Explanation:
https://library.netapp.com/ecmdocs/ECMP1196889/html/GUID-81A3AD13-C963-471A-9343-AEFFBA08E961.html
The limit imposed by Data ONTAP for retaining Snapshot copies is 255. However, if you need to retain more than 255 Snapshot copies, you can do so by creating a new volume.

QUESTION 29
Your customer using clustered Data ONTAP 8.1.2 recently had a disk drive fail. They already swapped out the failed disk for a replacement disk. They call you the next day explaining that the disk is not showing up in the spare disk pool. In this scenario, what are two reasons for this problem? (Choose two.)

A. The replacement disk drive needs to be manually un-failed before the disk will show up as a spare.
B. Autoassign is turned off, leaving the disk unassigned; the customer needs to take ownership of the replaced disk before it will show up as a spare disk.
C. The disk ID needs to be removed from the failed disk registry before the disk will be seen as a spare.
D. Autoassign is set to on, but the disk shelves in the loop are shared between a high-availability (HA) pair, causing the disk to show up as unassigned.

Answer: BC

QUESTION 30
Referring to the exhibit. A database administrator explains that the backup job scheduled to complete by 7:00 AM is not completing as fast as expected. You log in to theFAS3240 system and execute a few commands and obtain the output shown in the exhibit. Which system resource would you eliminate as a eliminate as a problem based on the command output?

| Question | Exhibit |

```
TestCluster::*> statistics show-periodic
cluster:summary: cluster.cluster: 6/7/2015 18:27:39
cpu cpu total fcache total total data data data cluster
avg busy ops nfs-ops cifs-ops ops recv sent busy recv sent busy
-------- -------- -------- -------- -------- -------- -------- -------- -------- -------- --------
10%  45%  17687  17687  0  0  170MB  153MB  59%  68.7MB  47.3MB  4%
15%  40%  18905  18905  0  0  199MB  184MB  84%  103MB  74.9MB  6%
12%  51%  17705  17705  0  0  172MB  182MB  58%  68.9MB  47.2MB  4%

cluster:summary: cluster.cluster: 6/7/2013 18:27:47
cpu cpu total fcache total total data data data cluster
avg busy ops nfs-ops cifs-ops ops recv sent busy recv sent busy
-------- -------- -------- -------- -------- -------- -------- -------- -------- -------- --------
Minimums:
10%  40%  17687  17687  0  0  170MB  132MB  58%  68.7MB  47.2MB  4%

Averages for 3 samples:
13%  45%  18099  18099  0  0  180MB  150MB  67%  80.3MB  56.5MB  4%

Maximums:
12%  51%  18905  18905  0  0  199MB  184MB  84%  103MB  74.9MB  6%
```

A. memory
B. network
C. disk
D. CPU

Answer: A

QUESTION 31
Referring to the exhibit. The customer configured an SVM called "NewSVM" for NFS, configured the volume, "vol_nfs", mounted at "/vol_nfs", and set up NFSv3 as shown in the exhibit. However, if they try to mount from the client with IP address 192.168.10.10, they receive a "permission denied" error. In this scenario, which action will solve the error condition?

```
cluster::> volume show -vserver NewSVM -volume * -fields policy,junction-path
vserver volume policy junction-path
----------- --------------- ------- -------------
NewSVM root new_policy /
NewSVM vol_nfs policy1 /vol_nfs
2 entries were displayed.


cluster::> export-policy rule show -vserver NewSVM -policyname *
Policy Rule Access Client RO
Vserver Name Index Protocol Match Rule
------- ------- ------ -------- ---------------------- ---------
NewSVM default 1 nfs 0.0.0.0/0 any
NewSVM new_policy 1 nfs 1.2.3.4 sys
NewSVM policy1 1 nfs 192.168.10.10 sys
3 entries were displayed.
```

A. Add a rule to the default export policy to Include the -clientmatch 192.168.10.0/24 parameter.
B. Stop and start NewSVM.
C. Associate a correct export policy to the root volume(/) of NewSVM.
D. Configure the default route for NewSVM correctly.

Answer: B

QUESTION 32

Microsoft SQL Server is being hosted from a Microsoft Hyper-V cluster and is mounting a LUIM from NetApp storage that contains its working databases.

```
Question | Exhibit
cluster::> volume show -vserver NewSVM -volume * -fields policy,junction-path
vserver volume policy junction-path
---------- ---------- -------- --------------
NewSVM root new_policy /
NewSVM vol_nfs policy1 /vol_nfs
2 entries were displayed.


cluster::> export-policy rule show -vserver NewSVM -policyname *
Policy Rule Access Client RO
Vserver Name Index Protocol Match Rule
---------- ---------- ------ -------- ------------------ ----------
NewSVM default 1 nfs 0.0.0.0/0 any
NewSVM new_policy 1 nfs 1.2.3.4 sys
NewSVM policy1 1 nfs 192.168.10.10 sys
3 entries were displayed.
```

In this scenario, which product would be used to ensure that consistent Snapshot copies of the database are obtained?

A. Snap Manager for MS Exchange
B. Snap Manager for Virtual Infrastructure
C. Snap Manager For SQL server
D. Snap Manager for Hyper-V

Answer: C
Explanation:
http://www.netapp.com/US/MEDIA/TR-4353.PDF (page 12)

QUESTION 33
You are preparing to implement a storage virtual machine (SVM) in a SAN configuration. You need to eliminate single points of failure and enable the system to survive component failures. According to NetApp, what is the recommended minimum number of paths per LUN connecting to each node being used by an SVM in a cluster?

A. 4
B. 2
C. 1
D. 3

Answer: B
Explanation:
https://library.netapp.com/ecm/ecm_download_file/ECMP1636036

QUESTION 34
An administrator on a clustered Data ONTAP 8.3.1 system created a FlexClone of a volume containing a LUN, but the new LUN Is offline and cannot be seen by the client. In this scenario, which two actions will solve the problem? (Choose two.)

A. The LUN must be mapped to an initiator group.
B. The new volume must be split from the parent volume before the LUN can be used.
C. The LUN must be renamed to be different from the parent LUN.
D. The LUN needs to be brought online.

Answer: AD

QUESTION 35
A customer is using DP SnapMirror replication between two clusters. The source cluster is using Clustered Data ONTAP 8.2.3. Which two versions are acceptable for the destination cluster to be operating? (Choose two.)

A. 8.1.4
B. 8.0.2
C. 8.3.1
D. 8.2.3

Answer: CD
Explanation:
The version of clustered Data ONTAP or Cloud ONTAP that is running on the destination must be the same or later than the major version running on the source volume.
https://library.netapp.com/ecmdocs/ECMP12411341/html/GUID-065FC3D4-A407-451F-A456-3C7D91B777D6.html

QUESTION 36
Your customer has a 2-node cluster with two FAS2554 controllers running clustered Data ONTAP 8.3. You want to upgrade non-disruptively to clustered Data ONTAP 8.3.1 using the rolling-upgrade method. Which two operations would you perform before issuing the "storage failover takeover - Node A" command? (Choose two.)

A. Upgrade the service processor of all nodes.
B. Migrate all LIFs used for iSCSI and FC away from NodeA.
C. Change the default boot image to the new image.
D. Install the new software image on all nodes.

Answer: BC
Explanation:
https://library.netapp.com/ecmdocs/ECMP1610209/html/GUID-4B814447-521D-43B7-846D-AB4EF86A25A1.html

QUESTION 37
You log in to a SnapMirror destination to review the system. Which scanner would you expect to see running?

A. active bitmap real management
B. container block reclamation
C. blocks used summary update
D. deswizzler

Answer: D
Explanation:
https://kb.netapp.com/support/s/article/what-is-deswizzler-or-deswizzling?language=en_US

QUESTION 38
An administrator notices that the clustered Data ONTAP 8.2.3 controllers are less responsive than normal. You use OnCommand Performance Manager but do not see obvious problems, yet, this particular issue is constant. Users are starting to complain. Which tool would you use to collect data to help diagnose this issue?

A. Perfstat

B. Perfmon
C. AutoSupport
D. Performance Archive

Answer: B

QUESTION 39
Which three conditions would prevent a normal giveback operation? (Choose three.)

A. presence of failed disks
B. ongoing SnapMirrar updates
C. established NFSv3 sessions
D. LUNs mapped with ALUA enabled
E. established CIFS sessions

Answer: ABE
Explanation:
https://library.netapp.com/ecmdocs/ECMP1210206/html/GUID-44A19B1F-7703-4BE8-94B0-4B404524342E.html

QUESTION 40
What will be the result of adding all nine spare disks to the aggregate?

A. You receive the "maximum number of raidgroups exceeded" error.
B. The aggregate will have seven RAID groups.
C. The aggregate will have three RAID groups.
D. The aggregate will have five RAID groups.

Answer: D

QUESTION 41
A customer recently had a controller module failure on a FAS62xx system running clustered Data ONTAP 8.3.1. The controller module had been replaced last night and everything is working well but the customer noticed warnings concerning licensing on the console. The warnings say there is a grace period of 89 days remaining. In this scenario, what should be done to solve this problem?

A. Execute a system restore to recover the previous license keys, and then apply to the new controller module.
B. Apply the previously used license keys using the appropriate commands.
C. Collect the new license keys from the new controller module packaging and install them using the appropriate commands.
D. Obtain new 8.2x format license keys and install them using the appropriate commands.

Answer: D
Explanation:
https://library.netapp.com/ecmdocs/ECMP1151583/html/GUID-7628862D-54E1-4BF5-AE8E-22F2262D7F3E.html

QUESTION 42
A customer created a new storage virtual machine (SVM) named "svm-nfs". They enabled only NFSv3 and created a new export policy called "Linux". In this policy, they created a rule replacing the default rule that shows the host specifier to be IP address 172.16.100.0/24. This configuration has worked well for the past two weeks for all Linux clients. A new Linux client is about to be put

into production but it is not able to access the NFS mount. The root user on this new client is not able to mount as well. They receive the "access denied" error. Which statement is correct in this scenario?

A. There is no export policy entry for the namespace for this export.
B. The time on the controller is skewed by more than five minutes.
C. The new client's IP address is not in the same subnet that is specified in the export policy rule.
D. The volume is NTFS security style.

Answer: C

QUESTION 43
You replaced the controller of an HA pair in a 4-node cluster running clustered Data ONTAP 8.3.1. You have gone through all hardware testing requirements before booting the system . Which action is now required to boot the system successfully?

A. Use the boot_ontap command from the loader prompt.
B. Use the disk reassign -s <souroe systemid> -d <destination systemid> command from maintenance mode.
C. Use the storage disk reassign -s <source system id> -d <destination system id> command from the cluster shell.
D. Use the storage disk reassign -s <source system id> -d <destination system id> command from diagnostics mode.

Answer: A
Explanation:
https://library.netapp.com/ecm/ecm_get_file/ECMP1196799

QUESTION 44
Which version of Data ONTAP would disable access to FilerView in favor of using OnCommand Manager for management?

A. 8.2
B. 8.0
C. 7.3
D. 8.1

Answer: D
Explanation:
https://library.netapp.com/ecm/ecm_download_file/ECMP1228966 (page 4)

QUESTION 45
Referring to the exhibit. Which two actions would you perform to address the system alternate-control-path (ACP) connectivity issue shown in the exhibit? (Choose two.)

A. Reseat the ACP cable.
B. Reseat the shelf modules.
C. Turn options acp.enable off and then on.
D. Perform a takeover and givebadcK.

Answer: CD

QUESTION 46
A large amount of data was deleted from a volume. After a few hours, the space was still not available to NFS clients accessing the volume. What are two reasons that would account for this problem? (Choose two.)

A. The volume contains Snapshot copies that were taken before the data was deleted.
B. There is a thick-provisioned LUN in the volume.
C. The deleted data was all deduplicated data.
D. The client needs to re-scan the volume to detect the changes.

Answer: AD

Explanation:
http://community.netapp.com/t5/Data-ONTAP-Discussions/Volume-space-not-returning-after-file-deletes/td-p/3539

QUESTION 47
A user complains that they cannot access a new NFS mount while logged into their Linux client. They are unable to mount the file system and are receiving an access denied error. The NFS server is a clustered Data ONTAP 8.3.1 storage virtual machine (SVM). Which two steps should be taken to troubleshoot the problem? (Choose two.)

A. Verify that the access settings of the export policy's rule are applicable to the export.
B. Confirm that the NFS mount's underlying volume is set to the NTFS security style.
C. Execute the vserver nfs show command on the clustered Data ONTAP cluster shell.
D. Execute the mount command on the client to determine how NFS mounts are mounted.

Answer: AD
Explanation:
https://library.netapp.com/ecm/ecm_download_file/ECMP1547460 (page 11)

QUESTION 48
Referring to the exhibit. Your customer's MetroCluster controllers have generated AutoSupport notifications with a "DISK REDUNDANCY FAILED" message.

Referring to the exhibit, which component is causing the problem?

A. the SAN switch site3_3
B. the SAN switch sitel_2
C. the ATTO bridges on site3
D. the inter-switch link (ISL) between sit el and site3

Answer: D

QUESTION 49
A customer wants you to add a disk shelf that contains SSDs so they can implement Flash Pool. Which three tools would you use to complete this task? (Choose three.)

A. Use the My AutoSupport tool to ensure that Flash pool is licensed.
B. Use Hardware Universe to ensure that you would not exceed the maximum drive count.
C. Use Hardware Universe to ensure that you would not exceed the maximum cache for the system.
D. Use the My AutoSupport tool to see if there is a Flash Cache card installed.
E. Use Config Builder to verify the shelves can be added.

Answer: ABE

QUESTION 50
A customer is installing a new system and has determined that they have a broken disk. What information is required to open a NetApp Support case?

A. disk HBA firmware and serial number
B. mainboard rev. id
C. serial number or system ID
D. disk shelf serial number and shelf ID number

Answer: C

QUESTION 51
A customer cannot create a new volume from OnCommand System Manager. Which two clustered Data ONTAP daemons would be at fault in this scenario? (Choose two.)

A. seed
B. bcomd
C. mqwd
D. vldb

Answer: BD
Explanation:
- VLDB (Volume Location Database) contains information of volumes and aggregates throughout the entire cluster. the VLDB content is cached in memory of each node.
- BCOMD (Blocks Configuration and Operations Management Daemon), read as bee-kom-dee, also known as the SAN Management Daemon, contains the SAN configuration of the cluster such as: LUN mappings and initiator groups (igroup).

QUESTION 52
A customer mentions that their Windows users cannot access clustered Data ONTAP 8.3.1 CIFS shares. The users see "access denied" on the Windows side. Host name resolution is working and properly resolves IP to host name and host name to IP and the customer can ping using host name and IP. In this scenario, which statement describes the problem?

A. iSCSI has been enabled on the SVM.
B. The time on the controller is skewed by more than five minutes.
C. NTP is not enabled on the clustered Data ONTAP 8.3.1 cluster.
D. There is no proper route to the storage virtual machine (SVM) running the CIFS server.

Answer: C

QUESTION 53
You have a 6-node cluster with six identical controllers. You are upgrading from clustered Data ONTAP 8.3.1 to clustered Data ONTAP 8.3.2. From the Upgrade Advisor, you downloaded the

upgrade plan. In this scenario, which two steps are part of that plan? (Choose two.)

A. Set a new image as the default image.
B. Verify system health.
C. Migrate all aggregates to the HA pair that was most recently upgraded.
D. Perform LIF migration of all SAN LIFs before takeover.

Answer: AD

QUESTION 54
A customer explains that their V3170 NetApp controller has failed over and they do not know what to do next. In this scenario, what information should the customer collect from the Remote LAN Module (RLM) and send to you? (Choose two.)

A. output from the system log command
B. output from the events info command
C. output from the sp status command
D. output from the events all command

Answer: ......

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