

Get 2024 Free Network Appliance NS0-593 Exam Practice Materials Collection [Q11-Q30]



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Get 2024 Free Network Appliance NS0-593 Exam Practice Materials Collection Get Latest and 100% Accurate NS0-593 Exam Questions Q11. After users start reporting the inability to create new files in a CIFS share, you find EMS events for

waf.dir.size.max logged for the volume of the SVM to which the share points.

In this scenario, which action should you take to solve this issue?

- * Delete unneeded files from the directory.
- * Move the volume to a different aggregate.
- * Increase the maximum number of files for the volume.
- * Increase the maximum directory size for the volume.

Q12. Your customer installed the shelf firmware for their NS224 shelf over a week ago, and the firmware has not upgraded on shelf 1 module B. The customer wants to know what the next steps would be to get the firmware upgraded after verifying that the shelf firmware is indeed loaded onto the system.

Which step would you perform to complete the firmware upgrade?

- * Reseat the NSM100 module.

- * Reseat the disk in Bay 0.
- * Power cycle the shelf.
- * Reseat the PSU of the shelf.

The question refers to a scenario where the shelf firmware for an NS224 shelf has not been upgraded on one of the NVMe shelf modules (NSM) after a week of installation.

The NSM is responsible for managing the communication between the drives and the I/O modules (IOM) in the shelf1.

The shelf firmware for the NSM is automatically updated when the NSM is inserted into the shelf or when the system is rebooted2.

If the automatic update does not work, the manual update process involves reseating the NSM, which means removing it from the shelf and inserting it back3.

Reseating the NSM triggers the firmware update and also resets the NSM's state3.

The other options are not correct, because:

- B) Reseating the disk in Bay 0 will not affect the NSM firmware update, as the disk is not connected to the NSM1.
- C) Power cycling the shelf will disrupt the I/O operations and may cause data loss or corruption4.
- D) Reseating the PSU of the shelf will not affect the NSM firmware update, as the PSU is not connected to the NSM1. Reference:

NS224 NVMe drive shelf overview – NetApp

Shelf firmware update process – NetApp

Module firmware upgrade stuck on NS224 shelf – NetApp Knowledge Base

Power cycle a disk shelf – NetApp

Q13. You receive the panic message shown in the exhibit.

```
Uncorrectable Machine Check Error at CPU0. MC0 Error: STATUS<0xb200000430000800>
(Val,UnCor,Enable,PCC,ErrCode(Src,NTG,Gen,Mem,L0)). MC5 Error: STATUS<0xf2000010c4300e0f>
(Val,OverF,UnCor,Enable,PCC,ErrCode(Gen,NTG,Gen,Gen,Gen)); Uncorrectable error at DIMM-1,
Channel 0, Serial: BA-00-1131-00098398169002460-I01-NTA-T1?!, FERR(0x400), NERR(0x402), MERR
M10Err, Rank 3, Bank 6, CAS 0x1e8, RAS 0x1bcf Uncorrectable error at DIMM-1, Channel 0, Serial:
BA-00-1131-00098398169002460-I01-NTA-T1?!, MERR M10Err, Rank 3, Bank 6, CAS 0x1e8, RAS 0x1bc.
```

In this scenario, which component should you troubleshoot first?

- * the PCI card in slot 3
- * the MetroCluster FC-VI card in slot 6
- * the memory module in slot 1
- * the CPU

Q14. A user mentions that their home drive, that is an export within a volume, is no longer allowing them to save files. The drive reports that it is full, even though it shows that minimal data is written to it.

Which statement would explain this behavior?

- * The mount is stale and uses a cached version of the volume.
- * Other users wrote to this user's home drive.
- * Other files within the volume are also owned by the user, exceeding the user quota.
- * The client system needs to remount the export to show the proper space.

Q15. Your customer mentions that they have accidentally destroyed both root aggregates in their two-node cluster.

In this scenario, what are two actions that must be performed? (Choose two.)

- * Rejoin the second node to the re-created cluster.
- * Re-create the cluster from the local backup.
- * Install ONTAP from a USB device.
- * Re-create the cluster from the remote backup.

If both root aggregates are destroyed in a two-node cluster, the cluster will be inoperable and the data will be inaccessible. To recover from this situation, you need to perform the following actions:

Install ONTAP from a USB device on one of the nodes. This will create a new root aggregate and a new cluster on that node.

Rejoin the second node to the re-created cluster. This will also create a new root aggregate on the second node and synchronize it with the first node.

Restore the cluster configuration and data from a backup, if available. Reference = ONTAP 9 Documentation Center Storage System Recovery Troubleshooting Recovering from a root aggregate failure

Q16. After a motherboard replacement on a NetApp AFF A300 in a SAN environment, the customer states that

ports 0e and 0f are unable to connect to the fabric. The ports report `“offline”`.

What would you examine first to troubleshoot the issue?

- * `vserver fcp wwpn-alias show` command output
- * `system node hardware unified-connect show` command output
- * `storage port show` command output
- * `vserver fcp interface show` command output

Q17. An administrator receives the following error message:

```
Mon Dec 23 00:20:36 EST [nodeA: waf1_exempt08: waf1.cp.toolong:error]: Aggregate  
fas_01_DATA_AGGR experienced a long CP.
```

What are two causes for this error? (Choose two.)

- * There is excessive SSD load causing the wear leveling to become unbalanced.
- * A disk is failing.
- * There is excessive SATA HDD load.
- * An SSD disk is performing garbage collection to create a dense data layout.

The error message `“waf1.cp.toolong:error”` indicates that a WAFL consistency point (CP) took longer than 30 seconds to complete. A CP is a process that flushes the data from the NVRAM buffer to the disk. A long CP can cause latency and performance issues for the system. One possible cause for a long CP is excessive SSD load causing the wear leveling to become unbalanced. Wear leveling is a technique that distributes the write operations evenly across the SSD cells to extend the lifespan of the SSD. If some SSD cells are written more frequently than others, the wear leveling will become unbalanced and the SSD performance will degrade. Another possible cause for a long CP is an SSD disk performing garbage collection to create a dense data layout. Garbage collection is a process that reclaims the space occupied by invalid or deleted data on the SSD. Garbage collection

can improve the write performance and storage efficiency of the SSD, but it can also consume CPU and disk resources and cause long CPs. A disk failing or being failed is not a likely cause for a long CP, because the system will automatically mark the disk as failed and remove it from the aggregate. The system will also initiate a disk reconstruction or a RAID scrub to restore the data protection and redundancy. There is no evidence that the system has SATA HDDs, so there is no reason to assume that there is excessive SATA HDD load. Moreover, SATA HDDs are usually used for secondary or backup storage, not for primary or performance-sensitive workloads. Reference:

1: Are long Consistency Points (wafl.cp.toolong) normal? – NetApp Knowledge Base 2: How to troubleshoot SSD performance issues – NetApp Knowledge Base 3: How to troubleshoot SSD garbage collection issues – NetApp Knowledge Base 4: How to troubleshoot disk failures and replacements – NetApp Knowledge Base 5: ONTAP 9 – Hardware Universe – The Open Group

Q18. When you review performance data for a NetApp ONTAP cluster node, there are back-to-back (B2B) type consistency points (CPs) found occurring on the aggregate.

In this scenario, how will performance of the client operations on the data aggregates be affected?

- * During B2B processing, clients will be unable to write data.
- * Data aggregates will not be affected by B2B processing on another aggregate.
- * During B2B processing, all I/O to the node is stopped.
- * During B2B processing, clients will be unable to read data.

Q19. You have a customer complaining of long build times from their NetApp ONTAP-based datastores. They provided you packet traces from the controller and client. Analysis of these traces shows an average service response time of 1 ms. QoS output confirms the same. The client traces are reporting an average of 15 ms in the same time period.

In this situation, what would be your next step?

- * The cluster is responding slowly and requires further investigation using performance archives.
- * The client that reports high latency should be investigated.
- * The cluster interconnects should be investigated.
- * A sync core should be triggered.

Q20. You have a customer complaining of long build times from their NetApp ONTAP-based datastores. They provided you packet traces from the controller and client. Analysis of these traces shows an average service response time of 1 ms. QoS output confirms the same. The client traces are reporting an average of 15 ms in the same time period.

In this situation, what would be your next step?

- * The cluster is responding slowly and requires further investigation using performance archives.
- * The client that reports high latency should be investigated.
- * The cluster interconnects should be investigated.
- * A sync core should be triggered.

The question describes a scenario where the controller and client have a significant difference in their reported latency for the same datastores.

The controller's latency is 1 ms, which is within the normal range for ONTAP-based datastores.

The client's latency is 15 ms, which is much higher than the controller's latency and could indicate a performance issue on the client side.

Therefore, the next step is to investigate the client that reports high latency and identify the possible causes, such as network congestion, misconfiguration, resource contention, or application issues.

The other options are not relevant or appropriate for this scenario, because:

A) The cluster is not responding slowly, as the controller's latency is low and QoS output confirms the same.

C) The cluster interconnects are not likely to be the cause of the latency difference, as they are used for communication between nodes within the cluster, not between the controller and the client.

D) A sync core is a diagnostic tool that captures the state of the system at a given point in time, and is not a troubleshooting step for performance issues. Reference:

ONTAP 9 Performance & Resolution Guide; NetApp Knowledge Base

Performance troubleshooting; NetApp

How to troubleshoot performance issues in Data ONTAP 8.7-mode

Cluster interconnect network; NetApp

How to generate a sync core on a node; NetApp

Q21. Which two automation methods does NetApp ONTAP Select support? (Choose two.)

- * REST
- * Ansible
- * Docker
- * PHP

Q22. You are attempting to connect a NetApp ONTAP cluster to a very complex network that requires LIFs to fail over across subnets.

How would you accomplish this task?

- * Configure an equal number of LIFs on each subnet.
- * Configure VIP LIFs using OSPF.
- * Configure VIP LIFs using BGP.
- * Configure a LIF failover policy for each subnet inside a single broadcast domain.

A LIF (Logical Interface) is a logical entity that represents a network connection point on a node.

A VIP LIF (Virtual IP LIF) is a LIF that can fail over across subnets within an IP space.

BGP (Border Gateway Protocol) is a routing protocol that enables VIP LIFs to advertise their IP addresses to external routers and to update the routing tables when a failover occurs.

To connect a NetApp ONTAP cluster to a complex network that requires LIFs to fail over across subnets, you need to configure VIP LIFs using BGP on the cluster and on the external routers.

= To prevent file ID conflicts in a FlexGroup volume, you need to enable 64-bit NFSv3 and NFSv4 identifiers on the SVM that hosts the FlexGroup volume. This allows the SVM to use 64-bit file system IDs (FSIDs) and file IDs, which are unique across the cluster and can accommodate a large number of files. The `-v3-64bit-identifiers` and `-v4-64bit-identifiers` parameters enable this feature for NFSv3 and NFSv4 protocols respectively. Reference = [Editing FlexGroup volumes, Enabling 64-bit NFSv3 identifiers on an SVM, NetApp ONTAP FlexGroup volumes – Best practices and implementation guide](#)

Q25. After a normal power down of both nodes for building maintenance, Node01 of a 2-node cluster cannot be powered back up; however, all disk shelves are powered.

Which action should be performed to bring the cluster online and allow Node02 to serve data?

- * Recreate the cluster with the system configuration recovery cluster recreate -from node command.
- * Reboot the node With the system node reboot -node Node02 -bypass-optimization true command.
- * Perform a takeover with the storage failover takeover -ofnode Node01 -option force command.
- * Reinitialize the cluster with option 4a from the boot menu.

= The correct action to bring the cluster online and allow Node02 to serve data is to perform a takeover with the storage failover takeover -ofnode Node01 -option force command. This command will force Node02 to take over the resources of Node01 and serve the data from both nodes. This is necessary because Node01 is not responding and cannot initiate a graceful takeover. The other options are not correct because they will either destroy the existing cluster configuration (A and D) or reboot the node without taking over the resources of the other node (B). Reference = [1 Halt or reboot a node without initiating takeover in a two-node cluster – NetApp Documentation 2 Solved: Graceful shut down – NetApp Community](#)

Q26. You notice poor performance on your FlexGroup and execute the system node run -node * flexgroup show

command for more Information. You notice the `“Urges”` column has non-zero values.

In this scenario, which statement is true?

- * The aggregate is completely full.
- * The constituent volumes are out of nodes.
- * The data placement is uneven.
- * The constituent volumes are completely full.

Q27. You are trying to deploy a Connector in the AWS cloud from NetApp Cloud Manager. The deployment fails

and shows the message `‘Insufficient permissions to deploy Cloud Connector”`. You have verified the AWS

access key and the AWS secret key.

In this scenario, what is the reason that the deployment failed?

- * No AWS Marketplace subscription is associated with Cloud Manager.
- * The required Identity and Access Management (IAM) policies were not installed.
- * The user lacks the permission to deploy within Cloud Manager.
- * The Connector can be deployed only in AWS GovCloud (US).

Q28. After users start reporting the inability to create new files in a CIFS share, you find EMS events for `wafl.dir.size.max` logged for the volume of the SVM to which the share points.

In this scenario, which action should you take to solve this issue?

- * Delete unneeded files from the directory.
- * Move the volume to a different aggregate.
- * Increase the maximum number of files for the volume.

* Increase the maximum directory size for the volume.

The `wافل.dir.size.max` event occurs when a directory has reached its maximum directory size (`maxdirsize`) limit, which prevents new file creation in that directory. The `maxdirsize` is a volume-level option that can be modified using the volume modify command. To solve this issue, you should increase the maximum directory size for the volume that contains the CIFS share, as long as it does not exceed 3% of the physical memory. Alternatively, you can reorganize the directory structure to avoid having too many files in one directory. Reference = Max Directory size error – NetApp Knowledge Base How to identify the target directory of `wافل.dir.size.warning` – NetApp Knowledge Base Post about `wافل.dir.size.max` | [Source.kohlerville.com WAFL Max dirsize](#) | [uadmin](#)

Q29. A user reports that a colleague saved a file called `Test.txt` from a UNIX system to a multiprotocol volume.

When opening the file later from a Windows system, it was not the file that they wanted. The file that they wanted was named `TEST~1.TXT`.

Which statement explains this behavior?

- * UNIX name mapping updated the filename.
- * A Snapshot copy preserved two versions of the file.
- * Windows Volume Shadow Copy Service stored an older version of the file.
- * Case Insensitivity of SMB clients caused the file to be displayed with a different name.

Q30. When an administrator tries to create a share for an existing volume named `voll`, the process fails with an error.

```
cluster1:~> vservers cifs share create -vservers svml -share-name voll -
path /voll
command failed: The specified path "/voll" does not exist in the namespace belonging to Vserver
"svml".
Error:

cluster1:~> vservers cifs share show
Vservers  Share  Path  Properties Comment  ACL
-----
svml      admin$  /      browsable -
svml      cifs   /      oplocks   -      BUILTIN\Administrators /
Full Control

svml      ipc$    /      browsable
          changenotify
          show-previous-versions
          browsable -

3 entries were displayed.

cluster1:~> vservers cifs show
Server  Status  Domain/Workgroup Authentication
Vservers Name  Admin  Name  Style
-----
svml    SVM1    up     DEMO  domain

cluster1:~> volume show -vservers svml -volume voll
Vservers Name  svml
Volume Name  voll
Aggregate Name  cluster1_01_SSD_1
List of Aggregates or FlexGroup Constituents: cluster1_01_SSD_1
Encryption Type: none
List of Nodes Hosting the Volume: cluster1-01
Volume Size: 20MB
Name Ordinal: base
Volume Data Set ID: 1028
Volume Master Data Set ID: 2162375168
Volume State: online
Volume Style: flex
Extended Volume Style: flexvol
FlexCache Endpoint Type: none
Is Cluster-Mode Volume: true
Is Constituent Volume: false
Export Policy: default
User ID: -
Group ID: -
Security Style: -
UNIX Permissions: -----
Junction Path: -
Junction Path Source: -
Junction Active: -
Junction Parent Volume: -
Junction Active: true
Junction Parent Volume: svml_root
Vservers Root Volume: false
Comment:
Available Size: 18.76MB
Filesystem Size: 20MB
Total User-Visible Size: 19MB
Used Size: 244KB
Used Percentage: 1%
...
Volume Tiering Policy: none
Volume Tiering Minimum Cooling Days: -
Performance Tier Inactive User Data: -
Performance Tier Inactive User Data Percent: -
```


Referring to the exhibit, what is the reason for the error?

- * The volume must have a type of DP.
- * The volume has not been mounted.
- * The CIFS service is not authenticating properly with the domain controller.
- * The CIFS service is not in workgroup mode.

The error message indicates that the specified path `/vol1` does not exist in the namespace belonging to Vserver `svm1`. This means that the volume `vol1` has not been mounted to the Vserver's namespace, which is required for creating a share. The volume type, the CIFS service status, and the CIFS service mode are not relevant to the error. Reference =

<https://www.netapp.com/support-and-training/netapp-learning-services/certifications/support-engineer/>

<https://mysupport.netapp.com/site/docs-and-kb>

The NS0-593 certification exam is a challenging exam that requires candidates to demonstrate their knowledge and skills in a variety of areas. To pass the exam, candidates must score a minimum of 70% on the exam. However, NetApp recommends that candidates aim for a higher score to demonstrate their mastery of the subject matter.

The NS0-593 exam is a specialist level certification and requires candidates to have a solid understanding of NetApp ONTAP storage systems. NS0-593 exam covers a wide range of topics including installation and configuration, data management, high availability, and troubleshooting. NS0-593 exam is designed to test the candidate's ability to apply their knowledge to real-world scenarios and solve complex problems.

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