

Vendor: Fortinet

> Exam Code: NS0-593

Exam Name: NetApp Certified Support Engineer ONTAP Specialist

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Question:1

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 loot aggregate.

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

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

Answer: B

Explanation:

Question:2

Recently, a CIFS SVM was deployed and is working. The customer wants to use the Dynamic DNS (DDNS) capability available in NetApp ONTAP to easily advertise both data UFs to their clients. Currently. DNS is only responding with one data LIF. DDNS is enabled on the domain controllers.

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AserAer	lif	data-protocol	is-dns-update-enabled	
svml svml	cifs_01 cifs_02	nfs,cifs	true true	
sym1 3 entries w	mgmt	none	false	
		• P 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2		
aluatori*	> TAAFTAF	1000010	mamic-undata abox	
dlusterl::* Vserver		eervicee dna dy	ynamic-update show re Vzerver FQDN	TTL

Referring to the exhibit, which two actions should be performed to enable DDNS updates to work? (Choose two.)

- A. Disable the -vserver-fqdn parameter for the SVM DDNS services.
- B. Remove the NFS protocol from the cifs_01 data LIF.
- ${\tt C.\ Enable the}\ -use -secure \ parameter for the {\tt SVM DDNS \ services}.$
- D. Enable the -is-enabled parameter for the SVM DDNS services

Answer: A, D

Explanation:

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Question:3

A customer is calling you to troubleshoot why users are unable to connect to their CIFS SVM.

ClusterB::*> storage disk show -broken Original Owner: Node03 Checksum Compatibility: block Usable Drawer Physical Disk Outage Reason HA Shelf Bay /Slot Chan Pool Type RPM Size Size -- ---- ----- ------ ------ --- ----- ---- ----1.0.2 failed 3b 0 2 -/- B FAILED BSAS 7200 1.62TB 1.62TB ClusterB::*> cluster ring show DB Epoch DB Trnxs Master Online Node UnitName Epoch
 Node
 Node
 Node
 Node
 Secondary

 Node03
 vldb
 0
 11
 358
 offline

 Node03
 vldb
 0
 11
 358
 offline

 Node03
 vifmgr
 11
 11
 4092
 Node04
 secondary

 Node03
 bcomd
 11
 11
 62
 Node04
 secondary

 Node03
 crs
 11
 11
 62
 Node04
 secondary

 Node04
 mgmt
 11
 11
 64
 Node04
 master

 Node04
 vldb
 0
 11
 358
 offline

 Node04
 kimgr
 11
 11
 4872
 Node04
 master

 ---- ------ --------ClusterB::*> system node run -node Node04 -command aggr status -r aggr2 Aggregate aggr2 (online, raid_dp, degraded) (block checksums) Plex /aggr2/plex0 (online, normal, active, pool0) RAID group /aggr2/plex0/rg0 (degraded, block checksums) RAID Disk Device HA SHELF BAY CHAN Pool Type RPM Used (MB/blks) Phys (MB/blka) -----N/A dparity FAILED 2538546/ -3c.0.11 3c 0 11 SA:B 0 B8AS 7200 2538546/5198943744 parity 2543634/5209362816 3c 0 12 SA:B 0 BSAS 7200 2538546/5198943744 30.0.12 data 2543634/5209362816 3c.0.13 3c 0 13 SA:B 0 ESAS 7200 2538546/5198943744 data 2543634/5209362816 3c.0.14 3c 0 14 SA:B 0 BSAS 7200 2538546/5198943744 data 2543634/5209362816

Referring to the Information shown in the exhibit, what Is the source of the problem?

- A. The v1db database is offline.
- B. The aggregate aggr2 has a failed disk.
- C. The databases On Node03 must be Switched from secondary to master.
- D. The broken disk in Node03 is the source of the problem.

Answer: C

Explanation:

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Question:4

You have a customer who is concerned with high CPU and disk utilization on their SnapMirror destination system. They are worried about high CPU and disk usage without any user operations.

In this situation, what should you tell the customer?

- A. Suggest that the customer manually cancel any scanners on the destination to reduce CPU usage.
- B. Explain that background tasks such as Snap Mirror throttle up in the absence of user workload.
- C. Suggest that the customer throttle their SnapMirror relationships to reduce resource consumption.
- D. Explain that only user workload should use the CPU and Investigate further.

Answer: A

Explanation:

Question:5

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?

- A. Configure an equal number of UFs on each subnet.
- B. Configure VIP LIFs using OSPF.

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- C. Configure VIP LIFs using BGP.
- D. Configure a IIF failover policy for each subnet inside a single broadcast domain.

Answer: C

Explanation:

Question:6

Which two statements about NetApp Cloud Volumes ONTAP licenses ate true? (Choose two.)

A. Having an Essentials package enables you to convert to another licensing option.

- B. Capacity-based license packages support only single-node configurations.
- C. BYOL licenses are purchased directly from NetApp.
- ${\sf D.}\ {\sf AWSMarketplace} contracts cannot be mixed with {\sf BYOL}.$

Answer: B,C

Explanation:

Question:7

Your customer complains that u host will constantly report losing a connection to the iSCSI target and then report that the session was reestablished.

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Tue Sep D4 16:18:26 CDT [PRD-NTAP-01: iswti iscsip thread: iscsi.notice:notice]: ISCS session from initiator iqn.1991-05.com.microsoft:prd-app-01.netapp.com at IP addr 172 Tue Sep 04 16:18:26 CDT [PRD-NTAP-01: iswti_iscsip_thread: iscsi.warning:warning]; 10 session request from initiator iqn.1991-05.com.microsoft;prd-app-01.netapp.com, a ses this initiator already exists. Tue Sep 04 16:19:02 CDT [PRD-NTAP-01: iswti_iscsip_thread: iscsi.notice:notice]: ISCS session from initiator iqn.1991-05.com.microsoft:prd-app-01.netapp.com at IF addr 10. Tue Sep 04 16:20:03 CDT [PRD-NTAP-01: iswti_iscsip_thread: iscsi.warning:warning]: IS session request from initiator iqn.1991-05.com.microsoft:prd-app-01.netapp.com, a ass this initiator already exists. Tue Sep 04 16:20:11 CDT [PRD-NTAP-01: iswti_iscsip thread: iscsi.notice:notice]: ISCS session from initiator ign,1991-05.com.microsoft:prd-app-01.netapp.com at IP addr 10. Tue Sep 04 16:20:11 CDT [PRD-NTAP-01: iswti iscsip thread: iscsi.warning:warning]; IS session request from initiator iqn.1991-05.com.microsoft;prd-app-01.netapp.com, a ses this initiator already exists. Tue Sep 04 16:20:45 CDT [PRD-NTAP-01: iswti_iscsip_thread: iscsi.notice:notice]: ISCS session from initiator ign.1991-05.com.microsoft:prd-app-01.netapp.com at IP addr 172

As shown in the exhibit, what is a cause of this flapping?

A. A host with an IP address of 172.20.10.80 and a second host with an IP address of 10.10.20.60 have the same IQN.

B. A host with an IP address of 172.20.10.80 and a second host with an IP address of 10.10.20.60 are in different initiator groups.

C. A host with an IP address of 172.20.10.80 and a second host with an IP address of 10.10.20.60 are accessing the same LUN.

D. A host with an IP address of 172.20.10.80 and a second IP address of 10.10.20.60 is accessing different LUNs.

Answer: C

Explanation:

Question:8

A storage administrator reports that a monitoring toot is reporting that the storage controller reads between 90% to 93% CPU use. You run the sysstat -m command against the node in question.

29 378	105	154.	528	784	0.09	619	545	625	9. 349	549	325	124	345	315	19	114	1524	128.1	1441	14.	138	1.1%	29	11	1414.
8291		24	24	274	- 74			45246																	
756)		728	255	124	829			44945		249	509	588	268	208	18	24	3274	28	49	28	744	29	24	24	145%
764)		721		114	725			104 1		119	144	344	33	278	18	28	3019	- 05	29	18	129	38	-04	18	1259
84 274		70%	225		728			674 84		574	544	564	364	368	116	18	2524	-08	24.	38	168	28	14	28	2124
7795		54	18	334	1.04	151	229	40038	114																
A 324	114	114	543	394	1146	474	574	514 15	4 354	254	114	554	554	524	14	38	1544	- 194 -	68.	26	116	-18	44	24	1044
37%1		64	114	1014		1.0%	- 28	199112	309																
4 824	144	294	53A	204	444	52%	514	434 34	h 346	244	544	544	544	544	16	-3k	1014	- 14	64	14	134	14	-04	24.	1454
76%)		19		.07%		181	11%	41201	104																
14 314	111	754	554	546	1794	544	594	354 58	4. 394	404	594	594	404	674	114	14	2544	- 194	44	104	1234	44	-114	34	3554
7781		48	1.08	645		128	128	35150	35%																
in 1994	814.	104-	144	794	704	584	104	414	4.048	544	554	314	544	144	14	19	2104	14	14	04	1.244	19	-14	24	1011
7641		14	114	628	14	134	24	16151	209																
24 0.14	1111	1111	55h	118	104	024	548	879 55	4. 515	0.5%	354	584	544	364	28	28	4705	114	28.	24	211	-24	24	24	2414
7787		24	104	10%	106	116	78	36945	476																

Referring to the exhibit, which statement is correct?

A. The customer should be advised to exclude certain workflows to reduce use.

B. High network exempt use could be a problem.

ANTI- ANTI- ANTI- ANTI- ANTI- ANTI- ANTI- ANTI- ANTI- AND TROD TRUE TROD TRUE TROD TRUE AND

- C. You should immediately investigate further by gathering perfstat data and opening a support case.
- D. The CPU Is not a first-order monitoring metric for ONTAP.

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Explanation:

Answer: C

Question:9



You have a 4-node NetApp ONTAP 9.8 cluster with an AFF A400 HA pair and a FAS8300 HA pair with 16 TB NL-SAS drives. You are asked to automatically tier 150 TB of Snapshot copy data from the AFF A400 aggregates to the FAS8300.

In this scenario, which ONTAP license must be added to the cluster to accomplish this task?

A. S3 license

- B. VElicense
- C. TPM license
- D. FabricPool license

Answer: C

Explanation:

Question: 10

Your customer Informs you about SnapMlrror problems after upgrading NetApp ONTAP software to a newer version. After investigating the event logs and the SnapMirror history, you see information about delayed updates of the SnapMirror relationships.

How would your customer prevent such problems in the future?

A. Quiesce the SnapMirror relationships before upgrading the ONTAP software.

 $B. Verify that the cabling of the hardware port that {\tt Is} responsible for {\tt SnapMirror} transfers {\tt Is} correct.$

 ${\sf C}.\ {\sf Modify} the schedules of the {\sf SnapMirror} relationships after upgrading the {\sf ONTAP} software.$

 ${\tt D.} \ {\tt Delete the Snap Mirror relationships and create them new after upgrading the {\tt ONTAP software.}}$

Answer: B

Explanation:

Question: 11

A customer enabled NFSv4.0 on an SVM and changed the client mount from NFSv3 to NFSv4. Afterwards, the customer found that the directory owner was changed from root to nobody. In this scenario, which statement is true?

- A. The customer did not configure name services on the SVM.
- B. The clients must be restarted to start using NFSv4.
- C. The export policy is not configured properly.
- D. The ID mapping domains do not match between the client and server.

Answer: C

Explanation:

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Question: 12

You have a NetApp ONTAP cluster consisting of four NetApp FAS8200 controllers with two NetApp

CN1610 cluster switches running ONIAP 9.8 software. You

are receiving several alert messages stating that the cluster network has degraded. After troubleshooting, you determine that the errors are being generated from Node 2, interface e0b. In this scenario, what should you do first to solve this problem?

A. Replace the Twinax cable between Node 2, Interface e0b. and the NetApp CN1610 switch.

B. Replace the mother board on Node 2.

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- C. Replace both NetApp CN1610 switches.
- D. Replace the NetApp CN1610 switch that connects to Node 2, interface e0b.

Answer: B

Explanation:

Question: 13

Your customer has mounted an NFS SVM from a Linux client unci performance is very poor. The customer is certain that they have jumbo frames enabled. They have verified an MTU of 9000 on both the Linux client and the broadcast domain on the NetApp ONTAP 9.8 cluster.

201401-001401		Status		Current	CUFFE	11664
Vserver	Interface	Admin/Op	er Address/Mask	Node	Port	Home
svml cl	usterl					
949104 75 .00	cifs 01	up/up	192.168.0.131/24	cluster1-01	eOf	true
	cifs_02	up/up	192.168.0.132/24	cluster1-02	eOf	true
	jumbo 01	up/up	192.168.0.201/24	cluster1-01	eGg	true
	jumbo_02	up/up	192.168.0.202/24	cluster1-02	e0g	true
	mgmt	up/up	192.168.0.130/24	cluster1-01	eOc	true
5 entri	es were displa	yed.				
8 8			2 2 2 2 5 5	S2 8 18		
		port broad	cast-domain show -br		Jumbo	
ГРэраса Name	Broadcast Domain Name	00.002 8455	Cast∽domain show -br t List	Update	. Jumbo Detaila	
IPspace Name	Broadcast Domain Name	00.002 8455		Update		
IPspace Name	Broadcast Domain Name	NTU Pu 9000		Update	Details	
IPspace Name	Broadcast Domain Name	NTU Por 9000 clu	t List	Update Status	Detaila	
1Рэраса Name	Broadcast Domain Name	MTU Por 9000 clu	t List ster1-01:e0f	Update Status complet	Detsils e	

Referring to the exhibit, which ONTAP command will help isolate a possible MTU mismatch?

A.

network ping -lif jumbo_01 -vserver svml_clusterl -destination 192.168.0.210 disallow-fragmentation false -packet-size 1000

Β.

network ping -lif jumbo_01 -vserver svm1_cluster1 -destination 192.168.0.210 disallow-fragmentation true -packet-size 9000

C.

network ping -lif jumbo_01 -vserver svm1_cluster1 -destination 192.168.0.210 disallow-fragmentation true -packet-size 1000

D.

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network ping -lif jumbo_01 -vserver svml_cluster1 -destination 192.168.0. disallow-fragmentation true -packet-size 5000

Answer: B



Explanation:

Question: 14

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?

A. The cluster is responding slowly and requires further investigation using performance archives.

- B. The client that reports high latency should be investigated.
- C. The cluster interconnects should be investigated.
- D. A sync core should be triggered.

Answer: B

Explanation:

Question: 15

Your customer wants to access a LUN on a FAS 8300 system from a VMware ESXi server through the FC protocol. They already created a new SVM, volume. LUN, and igroup for this purpose. The customer reports that the server's FC HBA port Is online, but the LUN does not show up.

	Terget Name: tive Status:		:a0:98:a7	tca:18				
oll::> lur Vserver	a show -vserv Path	er SVM1		State	Napped	Тγ	pe	Bize
SVM1	/vol/esx/dat	online	mapped	VII	ware	900GB		
cl1::> lu Vserver	n igroup show Igroup			Initiato	075			
svm1	esxserver	fop	vmware	20:00:00):25:b5:1):25:b5:1	10000		
cll::> lun Vaerver	a mapping sho Path	W TVSEIVE	r SVMl		Igro	up	LUN ID	Protocol
SVM1	/vol/esx/da	tastore.1	un		esxs	erve	r 0	fcp

Referring to the exhibit, what is the reason for this problem?

A. The FC service has not been configured on the SVM.

- B. The zoning on the FC switches Is Incorrect.
- C. The LUN Is not mapped to the correct SCSI ID.

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D. The esserver igroup contains incorrect IQNs.

Answer: C



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Explanation:

Question: 16

You recently discovered the error message shown below in your ONTAP logs.

[wafl.incons.userdata.vol:error]: WAFL inconsistent: volume my_data_vol

What should be your first action to correct this Issue?

A. Power cycle all the disk storage shelves that contain drives of the aggregate with the my_data_vol volume.

B. Determine the root cause behind the inconsistency before attempting any recovery procedure.

C. Use the storage take over command on the storage controller that contains my_data_vol.

 ${\tt D.} Use the wafliron command against my_data_vol to solve the inconsistency on the volume.$

Answer: A

Explanation:

Question: 17

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

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cluster1::> vserver cifs share create -vserver svml -share-name voll path /voll command failed: The specified path "/voll" does not exist in the namespace belo "svml".

At a Data March 199	and the second second	100	and the second	100
cluster1::>	ABelAet	CILB	suare	BUOM

Vserver	Share	Path	Properties	Comment	ACL
avml svml	adminS c\$	4	browgable oplocks	-	- BUILTIN\Admi
Full Control			browsable changenoti show-previ		ona
svml	ipc\$	1	browsable		

3 entries were displayed.

oluster1::>	vserver cifs show								
	Server	Status	Domain/Workgroup	Authentication					
Vaerver	Name	Admin	Name	Style					
svm1	SVMI	up	DEMO	domain					

cluster1::*> volume show -vservser svm1 -volume vol1

	Vserver Name:	avml
	Volume Name:	vol1
	Aggregate Name:	cluster1 01 33D 1
	List of Aggregates for FlexGroup Constituents:	
	Encryption Type:	
	List of Nodes Hosting the Volume:	
	Volume Bize:	
1.25	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:	7
	Junction Path Source:	
	Junction Active:	
	Junction Farent Volume:	-
	Junction Active:	
	Junction Parent Volume:	
	Vserver Root Volume:	false
	Comment:	
	Available Size:	
	Filesystem Size:	
	Total User-Visible Size:	
	Used Size:	6 2 a z a z a z a z a z a z a z a z a z a
	Used Percentage:	18
	Volume Tiering Policy:	
	Volume Tiering Minimum Cooling Days:	
	Performance Tier Inactive User Data:	
	Ferformance Tier Inactive User Data Percent:	-

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

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- A. The volume must have a type of DP.
- B. The volume has not been mounted.
- ${\sf C}. \ {\sf The} \ {\sf CIFS} \ {\sf service} \ {\sf is} \ {\sf not} \ {\sf authenticating} \ {\sf properly} \ {\sf with} \ {\sf the} \ {\sf domain} \ {\sf controller}.$

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D. The CIFS service is not in workgroup mode.

Answer: B

Explanation:

Question: 18

The motherboard of Node-01 is being replaced. To perform this task, a takeover was Initiated from Node-02.Node-02 panics showing the string below.

PANIC; Permanent errors on all HA mailbox disks (while marshalling header) in SKprocess fnmbx_instanceWorker on release 9.5P8 (C)

What has happened in this situation?

- A. While in maintenance mode, the sldiag device show command was executed.
- $B.\ While in maintenance mode, the fcadmin device_map command was executed.$
- ${\sf C}. \ {\sf While in maintenance mode, the {\sf HA}_configshow command was executed}.$
- D. While in maintenance mode, the mailbox destroy local command was executed.

Explanation:

Question: 19

You are deploying NetApp ONTAP Select. When trying to add VM ware vCenter to the inventory, you receive the message shown below.

Credential authentication failed for x.x.x.x with: HostConnectionFailed In this scenario, how would you correct this problem?

- A. Change the vCenter password.
- B. Change the IP address of the ONTAP Select Deploy VM.
- C. Change the gateway address of the ONTAP Select Deploy VM.
- D. Change the IP address of the vCenter server.

Answer: A

Answer: B

Explanation:

Question: 20

You created a new NetApp ONTAP FlexGroup volume spanning six nodes and 12 aggregates with a total size of 4 TB. You added millions of files to the FlexGroup volume with a flat directory structure totaling 2 TB, and you receive an out of apace error message on your host. What would cause this error?

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- ${\sf A}. \ {\sf The}\ {\sf maximum}\ {\sf number}\ {\sf ofvolume}\ {\sf constituents}\ {\sf has}\ {\sf been}\ {\sf reached}\ {\sf in}\ {\sf the}\ {\sf ONTAP}\ {\sf software}.$
- $B. \ All \ constituent \ volumes \ are \ full.$
- ${\tt C. \ The inode \ limit is exceeded \ in the \ ONTAP \ software.}$
- D. The

maxdirsiz els exceede dinthe ONTAP software.

An

swer:C

Explanatio n:

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