

QUESTIONS & ANSWERS

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NS0-591

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QUESTION 50

In a 4-node MetroCluster cluster, both clusters are alerting that the connection to an ATTO bridge is lost.

Which three components should be verified to determine what is causing this problem? (Choose three.)

- A. the SFPs that are connecting the ATTO bridge to the switch
- B. the dark fiber cables between sites
- C. the ATTO bridge
- D. the SFPs in the storage controllers
- E. the fiber cable that is connecting the ATTO bridge to the switch

Correct Answer: ACE

Reference: https://library.netapp.com/ecm/ecm_download_file/ECMP1650547

QUESTION 51

A customer has created an interface group (igroup) named a0a, a VLAN named a0a-2500, and a data LIF associated with the VLAN interface that has been assigned an IP of 10.254.10.100. The customer is able to ping 10.254.10.100 from a Windows client without any issues, but data traffic is not working.

In this scenario, what is the solution to the problem?

- A. Disable flow control on the a0a interface.
- B. Configure an appropriate service policy for the data LIF.
- C. Correct the MTU mismatch between the broadcast domain configuration and the upstream network switches.
- D. Allow data traffic by using LIF firewall policies.

Correct Answer: D

QUESTION 52

At a customer site, the `storage failover giveback` command fails when giving back the root aggregate. What

would be two reasons for this failure? (Choose two.)

- A. There are active NFS connections.
- B. There are failed disks.
- C. The HA interconnect is not operational.
- D. There are active SIS operations running.

Correct Answer: BC

Reference: <https://library.netapp.com/ecmdocs/ECMP1196905/html/GUID-E37EC334-C009-4A6A-82A8-BE383D6D5567.html>

QUESTION 53 The error message shown below is reported in the EMS log file.

"[sis.changelog.full:warning]: Change logging metafile on volume DATA1 is full and can not hold any more fingerprint entries."

What are two ways to solve this problem? (Choose two.)

- A. Clear the changelog manually so that the operation can restart.
- B. Increase the size of the changelog to allow the operation to continue.
- C. Modify the storage efficiency policy so that deduplication runs more frequently.
- D. Modify the threshold that triggers a deduplication operation.

Correct Answer: BD

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1070703/~/autosupport-message%3A-sis.changelog.full%3Awarning-

QUESTION 54

A customer reports that a LUN is offline because the volume is out of space even though the `space-reserve` parameter is configured to `enabled` on the LUN. Which

two statements are correct in this scenario? (Choose two.)

- A. The containing aggregate is thin-provisioned.
- B. The fractional reserve is set to 0%.
- C. Deduplication is inflating the LUN when it is brought online.
- D. The volume has snapshots.

Correct Answer: AD

QUESTION 55

Click the exhibit button.

```
cluster1::*> network interface show -vserver FS -fields data-protocol,curr-node,curr-port,is-home
vserver lif  data-protocol curr-node  curr-port is-home
-----
FS      lif01 cifs          cluster1-01 e0d      true
FS      lif02 cifs          cluster1-02 e0d      true
2 entries were displayed.
```

```
cluster1::*> vserver cifs share show -vserver FS -share-name Users
```

```
          Vserver: FS
          Share: Users
    CIFS Server NetBIOS Name: FS1
          Path: /Users
    Share Properties: oplocks
                    browsable
                    changenotify
                    show-previous-versions
    Symlink Properties: symlinks
    File Mode Creation Mask: -
    Directory Mode Creation Mask: -
          Share Comment: -
          Share ACL: Everyone / Full Control
    File Attribute Cache Lifetime: -
          File Mode Creation Mask: -
    Directory Mode Creation Mask: -
          Share Comment: -
          Share ACL: Everyone / Full Control
    File Attribute Cache Lifetime: -
          Volume Name: Users
          Offline Files: manual
    Vscan File-Operations Profile: standard
    Maximum Tree Connections on Share: 4294967295
    UNIX Group for File Create: -
```

```
cluster1::*> vserver cifs options show -vserver FS
```

```
Vserver: FS

    Client Session Timeout: 900
    Copy Offload Enabled: true
    Default Unix Group: -
    Default Unix User: pcuser
    Guest Unix User: -
    Are Administrators mapped to 'root': true
    Is Advanced Sparse File Support Enabled: true
    Is Fsctl File Level Trim Enabled: true
    Direct-Copy Copy Offload Enabled: true
    Export Policies Enabled: false
    Grant Unix Group Permissions to Others: false
    Is Advertise DFS Enabled: false
    Is Client Duplicate Session Detection Enabled: true
    Is Client Version Reporting Enabled: true
    Is DAC Enabled: false
    Is Fake Open Support Enabled: true
    Is Hide Dot Files Enabled: false
    Is Large MTU Enabled: false
    Is Local Auth Enabled: true
    Is Local Users and Groups Enabled: true
```

Referring to the exhibit, which change is required to enable the CIFS Autolocation function for the `Users` share?

- A. Edit the CIFS share's properties to remove the `changenotify` property.
- B. Re-create the LIFs to allow both CIFS and NFS protocols.
- C. Change the CIFS share's `Symlink Properties` parameter to `symlinks`.
- D. Modify the CIFS server's option to enable SMB multichannel.

Correct Answer:

C

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1001512/~/-/what-is-the-impact-of-a-shares-symlink-settings-and-dfs-advertisement-in

QUESTION 56 A customer calls you about a performance issue that they experienced over the past few days. They want to know if data collection and root cause analysis (RCA) is possible for this issue. This issue appears to be a one time event.

Which tool would be used to satisfy the customer's request?

- A. `perfstat`
- B. `perfmon`
- C. OneCollect
- D. Performance Archive

Correct Answer:

C

Section: (none)

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1031391/~/-/how-to-collect-data-for-an-rca-of-a-san-event-that-occurred-in-the-past-

QUESTION 57

A customer reports that copying data over iSCSI attached LUNs is taking significantly longer than usual. The customer asks you to help to identify the root cause of this problem.

Which two `perfstat` sections would you use to accomplish this task? (Choose two.)

- A. `stats lun`
- B. `lun stats -vserver`
- C. `statit`
- D. `stats volume`

Correct Answer: BC

QUESTION 58

Click the exhibit button.

disk	ut%	xfers	ureads--chain-usecs	writes--chain-usecs	cpreads-chain-usecs	greads--chain-usecs	gwrites-chain-usecs									
/aggr0_600sas/plex0/rg0:																
0a.00.0	4	8.30	0.28	1.00	0	4.10	36.27	164	3.92	39.52	150	0.00	....	.	0.00	....
3b.03.0	5	8.67	0.28	1.00	0	4.57	32.78	175	3.82	38.93	121	0.00	....	.	0.00	....
0a.00.1	48	97.79	90.89	7.34	1240	2.05	13.41	1142	4.85	10.58	727	0.00	....	.	0.00	....
3b.06.11	48	87.63	82.13	7.64	1229	1.96	30.38	649	3.54	11.71	575	0.00	....	.	0.00	....
0a.00.2	49	91.64	85.86	7.39	1145	1.77	37.21	304	4.01	8.44	694	0.00	....	.	0.00	....
3b.03.2	52	96.58	91.73	8.18	1132	1.77	26.53	589	3.08	13.27	1021	0.00	....	.	0.00	....
0a.00.3	51	94.90	88.47	8.30	1159	2.24	17.96	647	4.20	14.47	522	0.00	....	.	0.00	....
0a.03.3	50	93.50	87.54	7.66	1143	1.96	25.86	378	4.01	11.81	957	0.00	....	.	0.00	....
0a.00.4	50	98.91	93.60	6.73	1242	1.96	26.29	694	3.36	13.78	613	0.00	....	.	0.00	....
3b.03.4	50	97.70	92.10	6.51	1349	1.77	29.63	549	3.82	9.10	1185	0.00	....	.	0.00	....
0a.00.5	47	83.90	77.93	8.68	1081	1.86	34.55	405	4.10	10.68	700	0.00	....	.	0.00	....
0a.03.5	52	95.09	89.87	7.51	1255	1.68	28.00	466	3.54	19.45	451	0.00	....	.	0.00	....
0a.00.6	50	91.45	85.95	7.34	1257	1.77	22.21	557	3.73	15.03	539	0.00	....	.	0.00	....
3b.03.6	51	92.29	87.26	8.32	1179	1.77	28.68	442	3.26	14.71	619	0.00	....	.	0.00	....
0a.00.7	48	92.38	87.35	7.66	1107	1.58	26.65	380	3.45	13.59	799	0.00	....	.	0.00	....
0a.03.7	51	97.79	91.92	8.02	1161	1.96	21.29	454	3.92	11.43	725	0.00	....	.	0.00	....
3b.05.18	33	59.48	53.60	4.05	2151	1.86	29.60	404	4.01	11.30	580	0.00	....	.	0.00	....
3b.06.9	33	60.22	54.63	3.91	1907	2.33	38.84	286	3.26	13.91	466	0.00	....	.	0.00	....
3b.05.20	33	57.52	51.55	4.86	1855	1.96	36.43	390	4.01	13.60	579	0.00	....	.	0.00	....
3b.05.21	34	60.59	55.00	4.43	1984	1.96	33.67	368	3.64	14.72	451	0.00	....	.	0.00	....
3b.05.22	33	55.37	49.22	5.51	1641	2.24	39.96	303	3.92	14.60	721	0.00	....	.	0.00	....
3b.05.23	32	63.11	57.33	4.04	1892	1.96	33.10	367	3.82	11.07	780	0.00	....	.	0.00	....
/aggr0_600sas/plex0/rg1:																
0a.00.8	3	5.50	0.00	....	.	2.52	61.00	124	2.98	53.50	61	0.00	....	.	0.00	....
3b.03.8	2	5.50	0.00	....	.	2.52	61.00	107	2.98	53.50	67	0.00	....	.	0.00	....
0a.00.9	50	87.63	80.92	7.55	1353	2.24	20.17	593	4.47	11.56	969	0.00	....	.	0.00	....
3b.04.23	51	96.02	89.87	7.88	1210	1.77	20.37	581	4.38	10.91	655	0.00	....	.	0.00	....
0a.00.10	52	99.10	93.78	6.93	1405	1.68	21.72	691	3.64	11.69	732	0.00	....	.	0.00	....
3b.03.10	52															
101.33	95.74	6.89	1409	1.86	19.85	683	3.73	6.60	1170	0.00	....	.	0.00	....	.
0a.00.11	52	97.88	92.10	6.98	1271	1.68	17.17	874	4.10	7.32	1140	0.00	....	.	0.00	....
0a.03.11	47	88.38	81.66	8.34	1087	1.96	16.62	722	4.75	7.06	1522	0.00	....	.	0.00	....
0a.00.12	50	96.58	90.43	8.09	1136	2.14	16.48	760	4.01	11.37	630	0.00	....	.	0.00	....
3b.03.12	47	89.12	82.87	8.04	1117	2.14	17.91	755	4.10	8.05	887	0.00	....	.	0.00	....
0a.00.13	50	90.24	83.25	7.96	1209	2.14	18.61	551	4.85	9.15	592	0.00	....	.	0.00	....
0a.03.13	52	91.54	85.11	8.14	1319	2.05	25.82	572	4.38	10.96	786	0.00	....	.	0.00	....
0a.00.14	52															
104.22	98.16	7.81	1194	1.86	16.05	654	4.20	8.20	791	0.00	....	.	0.00	....	.
3b.03.14	49	91.27	85.67	7.75	1127	1.77	20.32	806	3.82	11.27	680	0.00	....	.	0.00	....
0a.00.15	53															
106.09	99.47	7.03	1303	2.14	21.52	685	4.47	7.85	899	0.00	....	.	0.00	....	.
0a.03.15	48	89.49	83.43	7.96	1238	2.05	16.77	783	4.01	9.91	742	0.00	....	.	0.00	....
3b.06.1	25	46.24	40.09	5.60	1454	2.14	29.17	463	4.01	15.12	418	0.00	....	.	0.00	....
0a.03.9	24	42.23	35.61	4.79	1721	2.42	27.50	302	4.20	16.73	331	0.00	....	.	0.00	....
3b.06.3	25	48.76	42.79	4.83	1582	2.14	38.35	290	3.82	19.44	442	0.00	....	.	0.00	....
3b.03.22	22	45.68	39.53	5.41	1257	2.24	28.54	349	3.92	13.00	546	0.00	....	.	0.00	....
3b.06.5	24	47.54	41.48	5.31	1280	2.24	35.83	291	3.82	18.00	314	0.00	....	.	0.00	....
3b.06.7	26	49.04	41.86	5.14	1502	2.33	35.08	383	4.85	15.35	434	0.00	....	.	0.00	....

A customer reports that storage latency has recently increased substantially. No changes have been introduced, and the traffic did not change.

Referring to the output shown in the exhibit, which corrective step should be taken?

- A. Add more spindles.
- B. Throttle the client traffic.
- C. Perform the volume reallocation.
- D. Move some volumes off the affected aggregate.

Correct Answer: B

QUESTION 59

Click the exhibit button.

```
----- SAS-EXPANDER-MAP -----
Expanders on channel 0a:
Level      1: WWN 500a098005f0ed3f,      ID 0, Serial Number ' SHJHU1527000148' , Product
'DS424IOM6E      ', Rev '0172', Slot A
Level      2: WWN 500a098005b053bf,      ID 1, Serial Number ' SHJHU1516001218' , Product
'DS224IOM6      ', Rev '0191', Slot A
Level      3: WWN 500a09800772e3bf,      ID 2, Serial Number ' SHJHU1653000119' , Product
'DS424IOM6      ', Rev '0191', Slot A
Level      4: WWN 500a098005af77bf,      ID 1, Serial Number  SHJHU1516001218' , Product
'DS224IOM6      ', Rev '0191', Slot B
Level      5: WWN 500a09800773b8bf,      ID 2, Serial Number ' SHJHU1653000119' , Product
'DS424IOM6      ', Rev '0191', Slot B

Expanders on channel 0b:
Level      1: WWN 500a09800773b8bf,      ID 2, Serial Number ' SHJHU1653000119' , Product
'DS424IOM6      ', Rev '0191', Slot B
Level      2: WWN 500a098005af77bf,      ID 1, Serial Number ' SHJHU1516001218' , Product
'DS224IOM6      ', Rev '0191', Slot B
Level      3: WWN 500a09800772e3bf,      ID 2, Serial Number ' SHJHU1653000119' , Product 'DS424IOM6 ', Rev '0191',
Level      4: WWN 500a098005b053bf,      ID 1, Serial Number '                               Slot A
Level      5: WWN 500a098005f0ed3f,      ID 0, Serial Number ' SHJHU1516001218' , Product 'DS224IOM6 ', Rev '0191',
                               Slot A
                               SHJHU1527000148' , Product 'DS424IOM6E ', Rev '0172',
                               Slot A
```

Your customer added a new DS4246 shelf to their FAS system. They created an aggregate on the new shelf. Two weeks later, they log in to Active IQ and discover the Medium Impact error shown below.

“Both SAS connections from one controller go to the same shelf.”

Referring to the exhibit, which statement is correct?

- A. You are unable to obtain a “Cable Visualization” overview from Active IQ.
- B. A faulty cable is causing the problem.

- C. A faulty IOM is causing the problem.
- D. You can correct this problem without downtime on the FAS system.

Correct Answer: D

Reference: https://kb.netapp.com/app/answers/answer_view/a_id/1015132/~/-sas-cabling-issue%3A-both-sas-connections-from-one-controller-go-to-the-same

QUESTION 60

Click the exhibit button.

A storage administrator reports that when they enabled Vscan, they began receiving reports of CIFS users having very slow access to all their files. The storage administrator recovered from the issue by disabling Vscan on their SVM. The storage administrator was able to collect perfstat output during the time of the reported slow access, as shown in the exhibit.

In this situation, what is the problem?

- A. The problem is on the SVM, as shown in the scan_latency output.
- B. Vscan server 192.168.100.144 was slower than Vscan server 10.23.23.54 in completing Vscan requests.
- C. Vscan server 10.23.23.54 was slower than Vscan server 192.168.100.144 in completing Vscan requests.
- D. The problem was with both Vscan servers 192.168.100.144 and 10.23.23.54.

Correct Answer: B

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