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Cohesity Certified Protection Professional - NetBackup and NetBackup Appliances (COH285)

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Question: 1669

In a scenario with SLP for AIR import failing due to validation errors in NetBackup 10.1, the target domain shows incomplete images post-replication. What commands and parameters enforce SLP validation and completion?

- A. Run `nbstlutil list -image_state -U` to identify incomplete copies, then `nbstlutil dupstatus -backupid BID -copy 2` for details
- B. Set SLP Parameters Import Confirmation=Enabled in Host Properties to pause source until target confirms, preventing orphans
- C. Configure SLP first operation as Backup with Residence=MSDP_STU and Retention=Infinite for import chaining
- D. Use `bpsetconfig SLP.VALIDATION_LEVEL=STRICT` to block SLP creation with mismatched retentions across domains

Answer: A, B, D

Explanation: AIR SLPs require validation; `nbstlutil list -image_state` flags incompletes, with `dupstatus` detailing copy failures for targeted fixes. Enabling Import Confirmation in SLP Parameters halts source processing until target import succeeds, ensuring no orphans in cross-domain setups. STRICT validation via `bpsetconfig` prevents deployment of mismatched SLPs, enforcing retention alignment for infinite import retention in DR scenarios.

Question: 1670

A Cohesity-NetBackup Appliance fails synthetic backups with: "bpbrm (pid=77889) synthetic failed: coh_synthetic_validate --image 0xFEDCBA12 returned missing fragment, status: 193." The policy has Synthetic Full=Yes, and 10TB data with 20 fragments. The Cohesity pool has 70% utilization.

Which two actions resolve the missing fragment?

- A. Run `coh_synthetic_repair --image 0xFEDCBA12 --fragment all --force`, then `bpduplicate -srcid 0xFEDCBA12 -slp Synthetic_SLP`
- B. Execute `nbimage -cleanup -image 0xFEDCBA12`, then `coh_synthetic_rebuild --policy Synthetic_Policy --force`
- C. Set `SYNTHETIC_FRAG_LIMIT=30` in `bp.conf`, then `coh_fragment_compact --pool Cohesity_Pool --threshold 70%`
- D. Run `nbdelete -backupid 0xFEDCBA12 -force`, then `bpbackup -i -p Synthetic_Policy`
- E. Update policy with `bpplinfo -modify Synthetic_Policy -fragments 25`, then `coh_synthetic_batch --count 20`

Answer: A, B

Explanation: Running `coh_synthetic_repair --image 0xFEDCBA12 --fragment all --force` repairs missing fragments in the Cohesity pool, and `bpduplicate -srcid 0xFEDCBA12 -slp Synthetic_SLP` retries the synthetic backup. Executing `nbimage -cleanup -image 0xFEDCBA12` removes corrupted catalog entries, and `coh_synthetic_rebuild --policy Synthetic_Policy --force` regenerates the full, resolving the 193 status.

Question: 1671

In configuring NetBackup optimized duplication with the `bpduplicate` command, what precaution must be taken regarding interaction with Storage Lifecycle Policies (SLP)?

- A. Optimized duplication cannot be configured outside SLP.
- B. Configure both methods with identical settings for redundancy.
- C. Use `bpduplicate` only with WORM storage servers in SLP.
- D. Do not configure optimized duplication for both `bpduplicate` and SLP; they must be exclusive.

Answer: D

Explanation: Optimized duplication must be configured exclusively either with the `bpduplicate` command or Storage Lifecycle Policies; mixing both for the same storage might lead to unpredictable results.

Question: 1672

During NetBackup catalog recovery in 11.3 DR, `bprecover -wizard` halts at "media not located for backup ID primary_1699876543", despite `vmchange -m media_id inventory` confirming tape in drive. `tpcommand if` shows slot empty. Which steps locate off-slot media without manual unload?

- A. Run `vmquery -bx -h media_id | grep "location: offslot"` to trace
- B. Inventory: `vmcheckccc -mediaid media_id -pn -quick` to update EMM
- C. Query: `vxlogview -p nb -o 120 -d 00:20:00 | grep "media: missing slot 5"`
- D. `tpautoconf -probe` to rescan without full `tpconfig delete`

Answer: A, B

Explanation: Recovery stalls from EMM inventory desync (off-slot media) in 11.3; locate with `vmquery -bx -h media_id | grep "location: offslot"` outputting barcodes/slots for manual check. Update via `vmcheckccc -mediaid media_id -pn -quick`, which probes without unload, syncing to `/usr/opensv/volmgr`; logs via 120 (tpreq) pinpoint slots, and `tpautoconf` rescans devices not media positions.

Question: 1673

A multi-site Cohesity NetBackup deployment (11.0) experiences a failover event in Auto Image Replication (AIR) to a remote domain, causing fragmented duplicates of a 2TB Oracle RMAN image (backup ID: `oracle_air_fail_20251013`) on tape media (ID: `TAPE_REMOTE_456`) to fail verification due to mismatched OpenStorage 11 event acknowledgments. The administrator must use the Appliance Shell Menu (CLISH) to verify fragment checksums, manually duplicate the valid fragments to a local Flex Scale disk pool with preserved multiplexing (max 8 streams), and expire invalid fragments using a retention calculation: `original_retention + (image_size_in_GB / 100 * 30 days)`. Which commands in CLISH achieve this without interrupting ongoing SLP imports?

- A. `bpimage -verify -backupid oracle_air_fail_20251013 -fn all -checksum -ost_event_ack` to validate OpenStorage fragments
- B. `bpduplicate -backupid oracle_air_fail_20251013 -srcunit RemoteTape -dstunit FlexScaleDP -pm -mpx 8 -Bidfile /tmp/valid_frags.txt -force_not_complete`
- C. For each invalid fragment: `bpexpdate -backupid oracle_air_fail_20251013 -frag -e "$(date -d '+$(echo "scale=0; 2000/100*30" | bc). days' +%m/%d/%Y)"` but set to 0 for invalid
- D. `nbstlutil cancel //process_id_of_import` to halt interfering SLP imports temporarily

Answer: A, B

Explanation: Verification in CLISH uses `bpimage` with `-ost_event_ack` (NetBackup 11.0 AIR enhancement) to confirm OpenStorage events post-failover, ensuring fragment integrity without full re-scan. Manual duplication employs `-pm` for multiplexing preservation and `-mpx 8` to limit streams for large RMAN images, with `-Bidfile` for selective valid fragments and `-force_not_complete` to bypass pending SLP imports. Fragment-specific expiration via `bpexpdate -frag` is not supported (expiration is copy-level); use whole-copy targeting instead, and retention calculation uses `bc` for arithmetic ($2000\text{GB} / 100 * 30 = 600$ days extension, but set to 0 for invalid). `nbstlutil cancel` risks broader SLP disruptions.

Question: 1674

In Cohesity NetBackup 11.0, to deploy quantum-resistant keys for client-side dedupe with parameter `-kyber level 3`, which `nbcertcmd` option is used?

- A. `nbcertcmd -setconfig -pqkyber 3 -dedupeside client`
- B. `nbcertcmd -enroll -extpq -level 3 -clientdedupe`
- C. `nbcertcmd -updatekey -quantum kyber3 -apply dedupe`
- D. `nbcertcmd -getconfig -pq`

Answer: A

Explanation: `nbcertcmd -setconfig -pqkyber 3 -dedupeside client` enables Kyber level 3 for dedupe, safeguarding against quantum threats in Cohesity-integrated client backups.

Question: 1675

Which NetBackup Appliance service manages backup image imports and export on attached tape devices during recovery operations?

- A. `vstransferd`
- B. `vsnapsvc`
- C. `bpimagelist`
- D. `bpsched`

Answer: A

Explanation: The `vstransferd` service manages download/upload of backup images between media and devices, crucial during import and export processes on tape.

Question: 1676

A NetBackup administrator has created two storage units, STU1 and STU2, in a storage unit group configured with Failover policy. During a backup, STU1 goes offline unexpectedly. How does NetBackup handle the ongoing backup job?

- A. Sends notification but continues using STU1
- B. Queues the backup job until STU1 returns online
- C. Fails the backup job immediately
- D. Automatically fails over to STU2, continuing the backup

Answer: D

Explanation: In a Failover storage unit group, if a storage unit goes offline, NetBackup automatically fails over backup jobs to another available unit in the group ensuring backup continuity.

Question: 1677

Basic issue on NetBackup Appliance: Auto Image Replication (AIR) jobs stall with "peer not responding" despite green status in Main > Network > WANOptimization. Troubleshooting reveals firewall block on port 1556. Fixes?

- A. Open port with Main > Settings > Firewall > AddRule -port 1556 -proto tcp -dir outbound
- B. Test connectivity with Main > Monitor > Network > Telnet -host peer_ip -port 1556
- C. Resume AIR jobs via Main > Manage > Jobs > ResumeReplication -all
- D. Verify replication with bpduplicate -status -policy air_policy -hours 24

Answer: A, B, D

Explanation: Adding a firewall rule for port 1556 tcp outbound via AddRule allows AIR heartbeat traffic, resolving stalls. Testing with Telnet -host peer_ip -port 1556 confirms open path post-rule. Checking duplication status with bpduplicate -status verifies resumed jobs complete, ensuring off-site copies update correctly.

Question: 1678

An administrator wants to leverage optimized duplication but notices full image duplication occurs instead. What could be the cause?

- A. Client-side deduplication is enabled
- B. One or both MSDP pools are not enabled for optimized duplication
- C. Storage Lifecycle Policy is disabled
- D. Deduplication is configured in manual mode

Answer: B

Explanation: Optimized duplication requires the source and destination MSDP pools to have optimized duplication enabled; otherwise, the system falls back to full duplication.

Question: 1679

An administrator needs to confirm that a recently applied VxUpdate patch was installed successfully on a NetBackup master server. Which command provides this verification?

- A. vxupdate -list-patches
- B. nbpatchstatus -check
- C. bplistpatches -master
- D. vxpkg -verify

Answer: A

Explanation: The vxupdate command with the -list-patches option lists all patches applied to the system, verifying the installation status of VxUpdate updates on NetBackup servers. Other commands are not standard or correct for this purpose.

Question: 1680

Troubleshooting an SLP in NetBackup 10.4 where import from snapshot fails after duplication to Cloud tier, showing status 228 (cannot connect). What configurations and verifications ensure cross-domain SLP continuity?

- A. Validate SLP version with nbstlutil stilist -L -name SLP1 -version 2, ensuring no Any_Available in operations post-7.5
- B. Set LIFECYCLE_PARAMETERS SLP.IMAGE_PROCESSING_INTERVAL=300 to poll imports every 5 minutes, accelerating detection
- C. Configure Import operation with Retention Type=Capacity Managed and Maximum Snapshots=5 to limit cloud metadata overhead
- D. Run bpgetconfig -M master | grep SLP to confirm parameters, then bpsetconfig SLP_MAX_CONCURRENT_IMPORT_JOBS=4 for parallelism

Answer: A, B, D

Explanation: Post-7.5, SLPs prohibit Any_Available; verify via nbstlutil stilist and replace with explicit SUs for import stability. Reducing SLP.IMAGE_PROCESSING_INTERVAL=300 in LIFECYCLE_PARAMETERS increases polling for faster import triggering in cloud scenarios. Setting SLP_MAX_CONCURRENT_IMPORT_JOBS=4 via bpsetconfig enables parallel

imports, vital for snapshot-heavy SLPs, while Capacity Managed retention optimizes cloud costs without fixed expiry conflicts.

Question: 1681

A scenario uses disk staging with SLP for remote office backups to a central data center, where duplication from staging MSDP to OST appliance fails with status 228 (mismatch in storage). The staging retention is 1 week. Which SLP rules and commands resolve OST integration?

- A. Configure SLP operation 2 as Duplication with `-optimizedduplication 1` and residence via `nbstl -modify`
- B. Set `bp.conf OST_STAGING_COMPAT=1` and run `nbdevconfig -updatestu -ost 1` for OST-aware staging
- C. Use the SLP parameter `Preserve Multiplexing: false` and retention `"Fixed: 14 days"` for the duplicated copy to match OST limits
- D. Enable `"Enable Automatic Remote Import"` in the duplication operation and verify with `nbstlutil stlilist -slp`

Answer: A, C

Explanation: Setting SLP operation 2 to Duplication with `-optimizedduplication 1` via `nbstl` enables efficient transfer from MSDP staging to OST without rehydration, resolving storage mismatches. Disabling `Preserve Multiplexing` and using `"Fixed: 14 days"` retention ensures the duplicated copy aligns with OST's non-multiplexed requirements, preventing status 228 during staging-to-OST flows.

Question: 1682

In the NetBackup Appliance Shell Menu for a Cohesity-managed primary server, an administrator executes `Main > Manage > Storage > Resize` to expand the MSDP partition by 500 GB from a new disk. What is the precise syntax to verify the expansion and re-scan without downtime?

- A. `Main > Manage > Storage > Scan`; `Main > Support > Hardware > Diagnostics`
- B. `Main > Manage > Storage > Resize -disk /dev/sdd -size +500G`; `Main > Manage > Storage > Scan`
- C. `Main > Manage > Storage > Configure`; `nbdevconfig -setconfig -capacity 500GB`
- D. `Main > Support > Support > Gather Logs`; `tpconfig -updatemedia`

Answer: B

Explanation: Main > Manage > Storage > Resize -disk /dev/sdd -size +500G allocates the additional space to MSDP, and Main > Manage > Storage > Scan integrates the new capacity into the pool without interrupting ongoing Cohesity-NetBackup operations.

Question: 1683

You discover that a restore job was canceled unintentionally and need to retry it with the same parameters. What is the recommended approach?

- A. Re-initiate the restore from the NetBackup Administration Console UI
- B. Run bprestores -retry on CLI
- C. Clone the job via CLI with bpdjob -clone
- D. Reset job status in Job Monitor and rerun

Answer: A

Explanation: The supported method is to re-initiate the restore from the Console by specifying the original restore parameters. NetBackup does not support retrying restore jobs via CLI commands such as bprestores or bpdjob clone.

Question: 1684

NetBackup 11.0 with Cohesity Flex, job fails status 28 ("Failed trying to fork a process") on Windows media server, Task Manager shows high CPU from bpbrm.exe crash. Memory low. Steps?

- A. End unnecessary processes in Task Manager and set bp.conf MEM_BUFFER=512k
- B. Restart nbpem with nbpem -terminate and monitor with bpps -a | grep bpbrm
- C. Run msconfig to disable startup apps and increase pagefile to 16GB min
- D. Use perfmon to track Process\Handle Count and adjust MAXJOBS=10 in bp.conf

Answer: A, C

Explanation: Status 28 fork failures in NetBackup 11.0 stem from memory exhaustion causing CreateProcess errors; terminating processes and setting MEM_BUFFER=512k in bp.conf reduces usage. Disabling startups via msconfig and expanding pagefile to 16GB frees resources. Perfmon/MAXJOBS monitor but not resolve immediate low mem.

Question: 1685

A scenario-based issue arises on a NetBackup Appliance where the Auto Image Replication (AIR) job is stalling due to mismatched encryption keys between the primary and secondary storage servers. The administrator must generate a new key pair using the bpkeyutil command with the -newkey option and propagate it via the nbdeployutil utility. What is the complete sequence of commands to resolve this encryption mismatch?

- A. bpkeyutil -newkey; nbdeployutil -update_keys
- B. bpkeyutil -newkey; nbdeployutil -sync_keys secondary_server
- C. bpkeyutil -delete; nbdeployutil -generate_keys
- D. bpkeyutil -newkey -server primary; nbdeployutil -propagate

Answer: B

Explanation: In AIR scenarios on NetBackup Appliances, bpkeyutil -newkey generates a new encryption key pair, followed by nbdeployutil -sync_keys secondary_server to propagate it, ensuring synchronized keys prevent stalling due to mismatches.

Question: 1686

Which of these commands lists all the scheduled backup jobs in the NetBackup system?

- A. bppsched -schedules
- B. bppsched -alljobs
- C. bppsched -list all
- D. bppsched -listjobs

Answer: A

Explanation: The bppsched -schedules command displays all backup schedules configured across policies for monitoring or review.

Question: 1687

In Cohesity NetBackup for Wasabi S3 hot tier, checkpoint every 15 min for burst 1000 streams policy, resuming after throttle, calc burst as (streams * part_size / throttle_limit). Which SLP and params?

- A. SLP: Backup to Wasabi_Hot (part=512MB), Checkpoint inherit 15 min; policy Cloud, CHECKPOINT 900
- B. Resume: bpjobop -resume -policy Wasabi_Policy, handles throttle via retry OPT_DUP_BUSY_RETRY_LIMIT=5
- C. Calc: $1000 * 512MB / 10Gbps \approx 51s$ burst window, monitor cloudtest -provider wasabi -operation resume
- D. Verify: nbgetconfig CLOUD | grep CHECKPOINT, ensuring no partial aborts

Answer: A, B

Explanation: SLP inherits 15min (900s) checkpoint to Wasabi with 512MB parts for burst. bpjobop resumes job, with file limit for retries on throttle. Calc window from streams and limit. nbgetconfig extracts cloud checkpoint; cloudtest not for resume.

Question: 1688

An administrator observes that Synthetic backups are failing frequently. Which troubleshooting step would best assist in resolving this?

- A. Disable Storage Lifecycle Policies temporarily
- B. Enable Auto Image Replication to bypass synthetic backups
- C. Disable disk staging and run only full backups
- D. Review media server logs for merge errors and check disk staging capacity

Answer: D

Explanation: Synthetic backup failures often arise due to insufficient disk capacity or errors during the merge process, which media server logs and disk staging space reveal.

Question: 1689

What is the correct parameter to enable anomaly detection on a NetBackup appliance?

- A. MALWARE_SCAN_ENABLE=TRUE
- B. ANOMALY_DETECTION_ENABLE=TRUE
- C. ANOMALY_DETECTION=ON
- D. MALWARE_DETECTION=YES

Answer: B

Explanation: ANOMALY_DETECTION_ENABLE set to TRUE activates anomaly detection on NetBackup appliances to identify malicious activity.

Question: 1690

During NetBackup 10.5 ECA integration, RBAC role for CA Admin cannot approve external cert enrollments. Which UI approval perms and CLI enrollments resolve?

- A. Web UI: Settings > RBAC > Roles > CA Admin > Edit > Add "Approve External Enrolls", then nbsecurityadmin -addrole -perm approve_ext_enrolls
- B. Enroll with nbcertcmd -enroll -server -token -approve
- C. View CA with nbcertcmd -listCA | grep external
- D. Reset ECA trust via nbsecurityadmin -reset_trust

Answer: A, B

Explanation: Adding "Approve External Enrolls" to CA Admin via web UI > RBAC > Edit enables ECA, nbsecurityadmin -addrole applying. Enrolling with nbcertcmd -enroll -approve processes, verified by listCA, without resets.



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