Data Storage Software

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- Data ONTAP DSM for Windows MPIO
  - Data ONTAP DSM and Windows Host Utilities Installation and Hotfix issues
  - How to install WUHU7.1 on Windows System
  - How to migrate from ONTAP DSM 4.1p1 to Microsoft native DSM
  - How to set up iSCSI MPIO on Windows 2008, Windows 2008 R2 and Windows 2012 using Microsoft multipathing
  - How to verify Windows fibre channel configurations with multipathing I/O
  - Hyper-V cluster nodes see BSODs caused by ONTAP DSM at random
  - ONTAP DSM fails to install on Windows 2012 with error "admin permissions required"
  - ONTAP DSM spamming windows event logs with ID 61219 "Invalid token operation occurred"
  - Why is MPIO Setting in W2k16 with iSCSI ONTAP 9 path verify enabled (PVE) set to 0?
  - Windows 2008 based host loses access to storage, error "Microsoft DSM returned a bogus Path to MPIO device identifier"

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E-Series SANtricity Software Suite

- "Host multipath driver configuration error detected " reported from E-Series array
- "Write-back caching forcibly disabled" alert with SANtricity OS 11.50
- 7-Segment display of E-Series Controller is flashing OS OL
- ARVM with large volumes can cause a controller reset
- Asynchronous mirror group member has failed following a volume transfer
- Controller offline triggers core dump
- Core dump triggered: DCD: REBOOT_DCD_CORE_DUMP_ALT_NMI
- Core dump triggered: REBOOT_VKI_SIGSEGV
- Core dump triggered ancient IO on write operation
- Core dump triggered for reboot due to ancient IO on E-Series Controller Firmware 08.30.01.00
- Core dump triggered WARNING: Restart by watchdog time out on EOS domain
- Dynamic capacity expansion over asynchronous remote volume mirroring results in failed drives and failed volumes
- E-series array cannot be added to SANtricity SMI-s Provider
- E-series Asynchronous mirror group suspended internally due to mismatched volume ownership
- E-Series asynchronous mirror group suspended internally due to secondary mirror volume repository being full
- E-series recovery-guru shows the hot spare missing
- E-Series Web Server not starting
- E-Series with Hyper-V shared volumes periodically disconnected
- Failed to unassign volume with error "Web Server 500"
- How to check the amount of active connections on an E-Series management interface
- How to convert the host protocol of an E-Series storage system between FC and iSCSI
- How to enable AutoSupport on E-Series System Manager
- How to install the OpenSSL 1.0.1m patch for SMI-S Provider version 10.28, 10.30 and 10.32
- How to Install/Upgrade SANtricity Storage Manager
- How to retrieve a core dump on an E-Series storage system
- How to use the SANtricity Recovery Guru to view storage array issues
- Is SNMP GET supported on E-Series?
- Login using LDAP authentication fails on E-Series Storage Array Manager with return status unauthorized (HTTP 401)
- Panic Reason shows "rebootReason 0x429c002, rebootReasonExtra 0x0" for Core dump
- SANtricity System Manager hangs repeatedly
- Simplex E-Series Array displays error 'REMOVED_CONTROLLER' in the Recovery Guru following a firmware upgrade

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Storage keep prompting "Enter Storage Array Password" when create synchronous mirrored volume
Thin volume failure during defrag/UNMAP operations
Unable to assign free drives as hot spares on an E-Series system
What are the network connection limits for E-Series management interfaces?
What impact will Microsoft ADV190023 have on SANtricity OS?
What is an Access LUN on an E-Series System?
What is E-Series SMI-S Array Management Utility error code 10?
What is E-Series SMI-S error code 32768?
What is the usable capacity of drives in E-Series storage systems?

- **Element Plug-in for vCenter server**
  
  - Element Plug-in for vCenter server 4.3.0 not working with VLANs on storage cluster
  - Element VASA provider certificate expiration alarm
  - How to disable DPM in VMware vCenter
  - How to register NetApp Element vCenter plug-in with vCenter Server
  - How to remove the VASA provider from vCenter
  - Manual mNode deployment fails on ESXi 6.x due to expired certificate
  - mNode Status shows as 'Network Down' or 'Down' in the mNode Settings tab of the Element Plugin for vCenter (VCP)

- **Element SDK**
  
  - How to install and configure Postman to run Element software APIs

- **Element Software**
  
  - "Create a New Cluster" screen does not show other nodes
  - "Drive encryption capable state" warning after node replacement
  - "Incorrect BIOS setting" warnings after adding a H610S to a cluster
  - 'HTTP 400: Error getting root assets' when running setup-mnode
  - 'HTTP 401: Error getting root assets' when running setup-mnode
  - Active IQ reports "failedSpaceTooFull" error during Element OS upgrade
  - Adding node to cluster failed with "Checking for incomplete or failed downloads"
  - Alert "CheckClusterFull: Failed to analyze cluster fullness"
  - Authorization failure events in ActiveIQ referencing ListVolumeXX, GetTime, GetConstants or ListCoreFiles
AutoSupport Message: A Block Service is using 95% of the available space and space is getting critically low
AutoSupport Message: blockFullness = stage4Critical
AutoSupport Message: blockFullness = stage5CompletelyConsumed
AutoSupport Message: blocksDegraded. No complete copies of the block data are accessible
AutoSupport Message: blocksDegraded. Only a single complete copy of the block data is accessible
AutoSupport Message: Block Services unavailable
AutoSupport Message: Capacity Warning
AutoSupport Message: clusterCannotSync
AutoSupport Message: collectorNotReporting
AutoSupport Message: dataEvent
AutoSupport Message: DriveAvailable Warning
AutoSupport Message: Encryption At Rest has been in a transitioning state for more than 120 seconds
AutoSupport Message: Ensemble Event
AutoSupport Message: Exception. A fault reported that is other than a routine fault
AutoSupport Message: Failed to balance interrupts. Performance may be degraded
AutoSupport Message: FibreChannel access degraded or failed
AutoSupport Message: fibreChannelAccessDegraded. Fibre Channel access is not available
AutoSupport Message: Network interface Bond10G has a duplicate IP address
AutoSupport Message: Network routing or interrupts
AutoSupport Message: NodeHardwareFault
AutoSupport Message: NVRAM device critical
AutoSupport Message: Remote Replication
AutoSupport Message: Replicating volume pairs have an Async Delay greater than 360 minutes
AutoSupport Message: Schedule action failed for schedule IDs: [X]
AutoSupport Message: serviceNotRunning
AutoSupport Message: space for slice services is critically low
AutoSupport Message: The SolidFire Application cannot communicate with node ID#
AutoSupport Message: Time difference between cluster and NTP server is too large
AutoSupport Message: Uncorrectable ECC error detected in SEL Log
AutoSupport Message: Used space greater than 95 percentage of chassis resiliency threshold
AutoSupport Message: volumesDegraded
AutoSupport Message: Volumes are offline
AutoSupport Message Block Service Fullness Disparity
bmcSelEccError on SolidFire Node
Can a Volume ID be reused in Element Software?
Can remote logging sets by SetRemoteLoggingHosts be reflected for a new node automatically?

- Check Block Service Fullness Disparity with script
- Cluster creation of 40+ nodes may become nonresponsive for up to 5 minutes
- Cluster not reporting on Element 11.3 and higher
- Collector not reporting due to SSL certificate check
- Compute nodes stopped sending VMware alerts after deploying new mNode
- Create a Snapmirror replication between Element cluster and ONTAP
- Duplicate IP warning after adding a storage node in VLAN on Element cluster
- Element cluster sending email messages for triggered alerts after nodes are decommissioned
- Element SNMP trap sent for pendingDirtyBlocks fullness greater than 90 percent
- Element Software 10.1 - Replicating volume pairs have an Async Delay greater than 360 minutes
- Element Software Alert: NTP server not reachable
- Element Software Upgrade completes but Cluster UI shows older version
- Element Software upgrade fails with free space warning
- Error after BIOS Upgrade: "Untrustworthy Debug Firmware Key is used"
- Error disconnectedClusterPair on Element cluster
- Fail to connect to SolidFire LUNs due to iSCSI Login timeout
- FAQ: Error Log - ensembleDegraded (Database servers not connectable)
- How can SolidFire customers configure Active IQ Email Notifications and Alert Policies
- How can SolidFire/HCI be impacted by Microsoft Security Advisory ADV190023?
- How do Unaligned Writes Affect a Volume on Element Software?
- How to apply workaround to rename volume on NetApp Element
- How to calculate Element cluster efficiency
- How to change BMC/IPMI network settings from the CLI
- How to change IP Address of a Solidfire / NetApp HCI Storage node
- How to collect a support bundle from a SolidFire/HCI storage cluster
- How to create an additional admin account on mNode 10.x
- How to create a static route on a SolidFire Storage node
- How to create a Remote Support Tunnel (RST) so support can get access to a customers management node
- How to disable TLS 1.0 on a SolidFire management node
- How to enable/disable SSH for Element 10.3 and later
- How to find out if Solidfire node has AC or DC power supply unit
- How to forward syslog messages to a remote host
- How to gracefully shut down a HCI compute node
- How to install a 3rd party root CA on a management node
How to interpret the ListprotectionDomainLevels API call
◦ How to migrate Element software nodes to different switches without disruption
◦ How to migrate SolidFire vCenter API for Storage Awareness (VASA) from one vSphere instance to another
◦ How to place a storage node on Element in manual maintenance mode
◦ How to reboot a SolidFire/HCI storage node
◦ How to recover a management node on Element 11.3 or higher
◦ How to remove a storage node from Element cluster
◦ How to replace an SSD on an Element storage node
◦ How to replace a SolidFire/HCI failed drive
◦ How to reset a NVRAM card in a SolidFire storage node
◦ How to setup a multi homed (two NICs) management node pre Element 11.3
◦ How to shutdown a SolidFire storage node which is not in a cluster
◦ How to translate the location of a failed memory DIMM from IPMI system event log
◦ How to troubleshoot Metadata drive moves to available as soon as adding it
◦ How to troubleshoot SolidFire Remote Replication - Disconnected Remote Nodes
◦ How to upgrade an Element cluster to versions 10.2-11.1
◦ How to use an mNode to gather BMC logs from a SolidFire/HCI storage or compute node
◦ How to view slice (volume metadata) sync status in a SolidFire storage cluster
◦ How to view the snapshot details of a Solidfire/NetApp HCI Volume
◦ iSCSI connection to Solidfire volume error detects on client host
◦ iSCSI session count exceeds supported limit of 700 sessions per node
◦ Is it normal additional volumes are created on the storage cluster when taking Veeam backups?
◦ Is it possible to implement replication using vlan SVIP/SIP ?
◦ I/O error occurs on an initiator host after a nodeOffline alert occurs
◦ LDAP authentication no longer working on SolidFire/HCI
◦ LDAP authentication on cluster GUI failing after service account passwords on Active Directory expired
◦ Many warnings about zookeeper are sent when set to transfer syslog
◦ mNode node UI on port 442 is not accessible after mNode upgrade
◦ mNode on Element 11.x shows an IPv6 default gateway present when none was configured
◦ mNode upgrade to 11.3 or 11.7 fails due to no space left on device error
◦ NetApp Element Alert: "Remote nodes are not connected via the cluster network"
◦ NetApp Element SSL certificate expiration alert
◦ NetApp H610S1 node has hardwareRevision: incorrect revision warning
◦ NetApp management node on poor performance datastore may lead to panic during setup-mnode script
◦ NetApp Management Node version 9.x or 10.x fails to run sfupgrade commands due to a missing key file
NetApp SolidFire Incorrect Block drive size (1.01GB) for this node type - expected xx
- Network configuration saving spends more time than normal
- Network firmware version mismatch warning appears after upgrade to Element 10.5
- Node fails to boot into Element
- Node in pending active status due to the small VLAN network size
- Node stuck in PendingActive with LACP active mode not enabled on Cisco switch
- Not all ESXi hosts can mount datastores when running a Disaster Recovery Plan
- NVRAM not detected with device not found
- Packet drops detected in ifconfig output on 10G interfaces for storage nodes
- Recurring "Network interface eth <X> is down or cable is unplugged" alerts on Element
- Remote support tunnel command fails when proxy configured
- ScheduleActionError error when source volume is deleted
- Schedule action failed for scheduled IDs - MaxSnapshotsPerVolumeExceeded
- Schedule action failed for schedule IDs - ClusterFullnessCritical
- SensorReadingFailed alert on H410S
- Mellanox + HCI Bond1G/10G not accessible and pingable between Bond1G interfaces on the same switch
- setup-mnode script on mNode failing with HTTP 500: Error adding storage asset
- Shutdown a SolidFire storage node for maintenance
- Snapshots failing with xSnapshotChecksumMismatch error on Element
- SolidFire - Detected network configuration mismatch
- SolidFire Alert: The sum of all minimum QoS IOPS is greater than the expected IOPS
- SolidFire Alert GC Completed 12 hours ago - from cluster xxx
- SolidFire API request times out when creating multiple volumes using API script
- SolidFire Cluster UI reports "FanXX RPM is failed or missing"
- SolidFire ISCSI Disconnects with Host message WARNING: iscsi_vmk: iscsivmk_StopConnection
- SolidFire network ports show up with incorrect current status
- SolidFire sfupgrdecheck fails with HTTP Error 403 - Request forbidden
- Storage node on Element not showing up in the pending list
- The following volumes have paused remote replication of snapshots because the target cluster volume has exceeded its snapshot limit
- Too few IP Addresses or No Available Storage IP addresses for VirtualNetworks
- Unregister SolidFire VMware Plugin for Vcenter when vSphere configuration fails during NDE setup
- Unresponsive metadata service on SF9608 models during network interruptions
- upgrade-mnode script on mNode failing with error: Failed to establish a new connection: Errno 111 Connection refused
- Upgrading to management node 11.3 for SolidFire all-flash storage using an in-place upgrade process
- Volumes inaccessible from VMware hosts after adding a storage node with a duplicate IP
- VRF enabled VLANs with overlapping ip ranges can cause iscsi login issues "Out of Resources"
- What does "volumeUtilization" mean of API "GetVolumeStats"?
- What does the alert "Usable Space Less Than 60%" mean?
- What is the best practice on adding or removing drives from a cluster on Element?
- What is the rule of thirds in Element Software?
- What is the upgrade matrix for storage clusters running NetApp Element software?
- What to do if Preserve SMBIOS is deselected when upgrading BIOS of H410C Nodes
- When authorizing on management node 'auth errorTypeError' is returned
- Which API calls will not work during an Element software upgrade?
- Which IP address does the SolidFire SNMP trap send from?
- Why am I seeing sfnginx, sfvasa and Failed interrupt Alerts on my SolidFire node?
- Why don't all SolidFire nodes have a role?

- Element Storage Replication Adapter
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  - XML parsing error during Element Storage Replication Adapter device discovery

- Host Utilities
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  - How to configure Linux iSCSI with CHAP authentication
  - How to find the version of the Host Attach Kit / Host Utilities that are installed
  - How to recover from ESXi 5.5 SAN configuration live storage vMotion failure
  - Top ESX/ESXi Known Issues/Workarounds/Best Practices for NFSv3

- Management services for Element Software and NetApp HCI
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  - How to add a custom SSL certificate for the Jetty service on the Element management node
  - How to clean up and setup Management Node manually
  - Management Services Release Notes
  - Running storage health checks prior to upgrading Element storage using NetApp HCC or API
  - SolidFire cluster not reporting after upgrading to Element 11.7

- MAX Data
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  - How to configure the SVM before installing MAX Data

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How to recover files from MAX Data snapshot copy
- How to recover Memory Accelerated (MAX) Data from a snapshot copy
- MAX Data service fails to start after installation

**NetApp Data Broker**

- Backups no longer available on storage show up in NetApp Data Broker GUI
- NetApp Data Broker deployment fails to register the NetApp SnapCenter Plug-In for VMware with error "Error occurred while calling SCV"
- How to enable SSH access in NetApp Data Broker
- How to generate NetApp Data Broker support bundle
- How to specify the network interface NetApp Data Broker uses to communicate with vCenter
- NetApp Data Broker: "Unable to find SnapMirror destination(s). Error: No SnapMirror relationships were found"
- NetApp Data Broker snapshots are not being deleted per retention policies
- Unable to find snapshot on NetApp Data Broker when attempting SnapVault or SnapMirror update

**NetApp NFS Plug-in for VMware VAAI**

- How to configure clustered Data ONTAP to allow for VAAI over NFS
- How to disable SAN VAAI Copy Offload on an ESX/ESXi host
- How to troubleshoot VAAI cloning issues in ONTAP SAN configurations
- NFS VAAI - Attempting to create thin VMDKs results in Thick Provisioned Lazy Zeroed VMDKs when datastores are mounted indirectly
- Virtual Machine client-side performance impact when VAAI NFS plugin is not installed
- When does the NetApp NFS Plugin for VMware VAAI improve clone performance?

**NetApp XCP**

- Does NetApp XCP SMB support a catalog feature?
- NetApp XCP data copy fails with "Error failed to set security descriptor, skipping transferring ACLs and ownership"
- How to copy and sync data from snapshot
- How to copy new changes or created files from specific date from the Windows share to the NetApp CIFS share
- How to increase xcp.log verbosity for troubleshooting
- How To Scan All the CIFS Shares of an SVM with XCP
NetApp XCP produces catalog inaccessible error
- NetApp XCP produces error that binary has expired
- NetApp XCP produces error that the license expired
- NetApp XCP produces license file not found error
- NetApp XCP reports Error "nfs3 error 27: file too large"
- Permissions not copied correctly when using NetApp XCP Migration Tool 1.5
- Triage Template: How to troubleshoot NetApp XCP migration related issues
- When activating XCP, user receives error "xcp: ERROR: run activate"
- Which parameter can be used to exclude directories using XCP copy or XCP sync?
- XCP: ERROR: Cannot allocate memory - when syncing NFS data
- XCP - Failed to get security descriptor
- XCP SMB job fails with fatal error
- XCP sync failed with error "compare batches: 'NoneType' object has no attribute '__getitem__'"

• ONTAP OS

- "cifs domain discovered-servers show/reset-servers" command times out
- "cifs share show -volume" reports a partial list of shares
- "diffie-hellman-group1-sha1" gets missing after upgrading the node from ONTAP 8.3 to 9.1
- "Error: command failed: Duplicate server-chain certificate entry found."
- "ERROR: external keymanager check failed" during ONTAP upgrade from 9.3 to later 9.3P release even after running delete-kmip-config
- "Incorrect credentials for svm" when trying to authenticate to a data SVM with Domain-Tunnel
- "lun resize" operation panics when LUN size not aligned with cylinder size
- Removing a DC from the domain fails "NBT: Cannot connect to server over NBSS socket for port 139. Error 0x23: Resource temporarily unavailable"
- "network port broadcast-domain show" reports "error: details not available" for some ports
- "nfs: server hostname not responding, still trying" connecting to ONTAP 9.6 or later in a network with high packet loss
- "No such file or directory" and "?" appear in out of an 'ls -la' via NFSv4.x
- "reallocate start" without -o option will leave the reallocation in "repeat" state
- "secd.ldap.noServers" in EMS when using SSL/TLS
- "security.invalid.login" alerts are spamming admin email address
- "Security key-manager delete-kmip-config" command gives Error: command failed
- "wafl.cp.toolong" message seen in ONTAP Logs during high disk workload
- "wafl.cp.toolong" message seen in ONTAP logs for archive, backup, or disaster recovery storage system
- "wafl.cp.toolong" message seen in ONTAP logs when disk is about to fail or being failed
- 7MTT: Create one or more intercluster LIFs on the affected nodes
- 7MTT: How to resolve a firewall issue when transitioning CIFS local users and group configurations
- 7MTT: How to resolve TLS or SSL communication issue
- 7mtt: volume is not shown
- 7MTT: To resolve a firewall issue when transitioning CIFS local users and group configurations
- 7MTT - Transition start failed
- 7MTT 1.3: CIFS local users and groups fail with the error message: already exists
- 7MTT Copy-Based Transition - How to handle the scenario where 7-Mode data-copy IP address is not reachable from target cluster intercluster LIFs
- 7MTT Copy-Based Transition - Consolidation of volumes from multiple 7-Mode storage systems or vFiler units into a single SVM using the v2.0 or later versions of the tool
- 7MTT MetroCluster Precheck Error 88020: Details error 16035 "admin password not set"
- 7MTT migration does not retain the domain information in "Quota target" due to numeric values in user name
- 7MTT Precheck 10111 - How to transition 7-Mode volumes that have qtree level exports
- 7MTT precheck 40293: Transitioning name servers if specified together within Data ONTAP 7-Mode and SVM are more than three
- 7MTT projects cannot be accessed
- 7MTT to clustered Data ONTAP migration fails with "Reason: A technical error has occurred"
- 7MTT Transition Mode Error Message 20933 Error Code 337 Failed Processing Line 25 of the input file
- 7MTT v2.0: Detailed description of configuration transition/manual steps: SnapMirror, NameServices, and WAFL
- 9.6 upgrade fails to complete due to presence of Vserver active-directory account
- Accessing a CIFS server via hostname fails but IP works
- Accessing a CIFS share with a local user
- Access a CIFS share with a computer account
- ACP Connectivity Status: Partial Connectivity
- ACP not-responding
- Active IQ- Upgrade Advisor fails to generate
- Active IQ reports volume efficiency errors on SnapVault destination volume
- Active IQ Wellness: Up to High Impact - Aggregate is almost full or Volume vulnerable to becoming 100% Full
- Active IQ Wellness: Up to High Impact - This system is nearing the limits of its performance capacity
- Active IQ Wellness: Up to High Impact - This system is reporting a high average CPU utilization
- Additional NFS mount created when accessing snapshot directory from Linux host
- AES Encryption enabled leads to intermitent loss of share access
- After adding controllers to the cluster, incorrect node names are being displayed
- After a Data ONTAP upgrade, the effective version displays an older version
*After a Head Upgrade data access can be disrupted*

- After deleting a volume in ONTAP, the volume is brought offline with type DEL
- After destroying and recreating a vif/interface group or VLAN interface, the vFiler is no longer serving data for Data ONTAP 7-Mode
- After MetroCluster site failover, Hyper-V Virtual Machines gets disconnected
- After migration, CIFS is inaccessible using DNS name (IP address works)
- After node reboots, LACP ports are down and Cisco Nexus switch ports are in 'Link Flap error-disable' state
- After ONTAP upgrade, LIF home port changed to IFGRP member port
- After ontap upgrade to 9.6P6 the mgwd process is in a constant restart loop
- After upgrade from 9.6P2 to 9.6P6, System Manager and API are failing
- IBM AIX client hangs on Read/Write operations in NFS share with NFSv4
- AIX client is unable to lock a file that was previously locked by the same client
- AIX host loses connectivity to LUNs during takeover and giveback
- Alert EMS Message - secd.dc.out.of.pipe.instances
- Alert LED turned ON a Shelf without any other observed fault or DC UNDER VOLTAGE messages
- Allow specifying unix permissions during qtree creation
- All files/folders Unix permissions get changed from 777 to 700 after migration of a NTFS volume from 7-Mode.
- An EMS event has been generated multiple times, but they are not recorded except the first time
- API calls to clustered Data ONTAP fail intermittently with either 'Unable to find API' or 'specified vserver not found'
- API calls to ONTAP 9.1-9.3 fail when using a readonly LDAP service account
- API failure due to duplicate domain name entry for Clustered Data ONTAP 8.3.1
- API invoke failed - Unable to get status from NetApp system
- API query to ONTAP fails with error: Cant connect to host (err=10061). errno="10061" status="failed"
- Application fails to write to a file intermittently in ONTAP and STATUS_FILE_LOCK_CONFLICT is seen in the packet trace
- Application unable to write to NAS with error: "File too large".
- Applying the solution to bug 865444
- Are local users and groups and Workgroup mode supported in clustered Data ONTAP?
- Are quotas based on Windows group IDs supported?
- Are root and administrator actually the same account on a filer?
- Are there any OIDs for CN1610's CPU or memory information?
- Are there new limits with disk sanitization in Data ONTAP 7.3?
- Ask Expert/NAS: How to troubleshoot performance for slow browsing NFS mount
- ASUPs being generated for every single messages present in the catalog
- ASUPs delivery failure - Unknown SSL protocol error in connection to support.netapp.com:443
Asymmetric Logical Unit Access (ALUA) support on NetApp Storage - Frequently Asked Questions

- AT-FCX: CEMI Micro Controller Fatal Error causes an AT-FCX module to become unresponsive
- Attempting to clone a volume fails with "The snapshot name does not exist" when the parent snapshot does exist
- At times IP distribution for a LAG (ifgrp) may not be optimally balanced in ONTAP
- Authentication error: "Unable to acquire filer credentials. Client not found in Kerberos database"
- AutoSupports using HTTPS via proxy in ONTAP fail HTTP code 407 from proxy after CONNECT
- AutoSupport bundle in ONTAP are not creating - notifyd error 'Entity: line 3: parser error'
- AutoSupport can truncate on collection or delivery
- AutoSupport collection in ONTAP - some content is missing or truncated
- AutoSupport connection refused
- AutoSupport delivery fails due to DNS - Couldn't resolve host in Data ONTAP 7-mode
- AutoSupport delivery fails due to DNS - Couldn't resolve host in ONTAP 9 and earlier
- AutoSupport Error: MAXIMUM EXITS THRESHOLD OF A PROCESS MANAGED BY SPM IS REACHED
- Autosupport in ONTAP is randomly sending out notice logs using SMTP
- AutoSupport is configured, but the status is OFF
- Autosupport is not working - maximum size of ASUP queue hit event queue threshold
- Autosupport is reported as being off and no Autosupports are available in ActiveIQ
- AutoSupport message: (Exceeded maximum raw capacity) CRITICAL
- AutoSupport message: CHASSIS OVER TEMPERATURE SHUTDOWN
- AutoSupport Message: Chassis Power Degraded
- AutoSupport Message: Chassis Power Supply Degraded
- AutoSupport message: CHASSIS POWER SUPPLY FAIL
- AutoSupport message: Cluster Notification (CHECKSUM ERROR (multiple disks)) CRITICAL
- Autosupport Message: CLUSTER NOTIFICATION (REBOOT)
- AutoSupport Message: CLUSTER TAKEOVER COMPLETE
- AutoSupport Message: DISK_SCRUB
- AutoSupport Message: DISK/SHELF COUNT MISMATCH
- AutoSupport message: FILESSTEM LUN RESIZED (V-Series)
- AutoSupport Message: FXLFLT:System Notification from filer1 (FC-AL LINK_FAILURE (adapter_name)) ERROR
- AutoSupport Message: Health Monitor Process CSHM
- AutoSupport Message: Health Monitor SPAutoUpgradeFailedMajorAlert - SP upgrade fails
- AutoSupport message: Multiple Fan Failures
- AutoSupport message: OINODE:System Notification from filename (OUT OF INODES) ERROR
- AutoSupport Message: PWRFLT Power Supply messages
- Autosupport Message: RDVLFA:HA Group Notification from filer1 (RAID VOLUME FAILED) ERROR
- AutoSupport message: RLMHBL: System Alert from RLM of Filer1 (HEARTBEAT_LOSS) WARNING
- AutoSupport message: RLM HEARTBEAT STOPPED
- AutoSupport Message: ROOT VOLUME NOT WORKING PROPERLY: RECOVERY REQUIRED
- ONTAP Node lost connectivity to the cluster, with call home: SCSIBLADE SERVICE UNAVAILABLE or ASUP_MSG_SBLADE_UNAVAILABLE
- AutoSupport Message: SHELF_FAULT
- AutoSupport message: SHTPEN: System Notification from Filer1 (SHUTDOWN PENDING (degraded mode)) CRITICAL
- AutoSupport message: SNAPVALIDATOR ERROR PREVENTED
- AutoSupport Message: SwitchIfIslDownWarn_Alert
- AutoSupport message: SYNCMIRROR FAULT ISOLATION
- AutoSupport message: SYNCMIRROR VERIFY FAILED
- AutoSupport message: SYSTEM_BOOT_FAILED (POST failed)
- AutoSupport message: WAFL INCONSISTENT
- Autosupport Message: MEDIUM ERROR DURING RECONSTRUCTION
- Autosupport Message: RAIDTREE ASSIMILATION FAILED
- AutoSupport Message: sis.changelog.full:warning
- AutoSupport not receiving via https/https Error: Forefront TMG denied the specified Uniform Resource Locator (URL)
- AutoSupport not working over SMTP - error message: FTP: weird server reply
- Autosupport OnDemand fails - Account currently locked
- AutoSupport reports "Logical Unit Number mapping or igroup type misconfiguration has been detected"
- Autosupport send failed
- Auto mount isn't working but able to manually mount NFS
- Available space in volume does not increase after file deletions when the snap reserve exceeds 100% utilization
- AV Connector (AVSHIM) fails to register the Virus Scan Engine with the error: Registration failure: ScanType != SCANTYPE_rpc_cluster
- AV Connector - Error when testing connection
- AV Connector fails to connect to SVM
- A audit log filename doesn't correspond to local time zone
- A big value at performance tier on volume show-footprint command output
- A disk reports reservation issues when the "disk assign" command is run to assign disk ownership
- A Linux system running kernel 2.6x creates a mount point when accessing the .snapshot directory via Network File System
- A package delete is already in progress, retry command after it is completed
- A raid group in aggregate is degraded but not offline
- Backups failing even though user is part of BUILTIN\Backup Operators group for ONTAP 9
Backup jobs via CIFS are slow while doing indirect access
  ◦ Basic Performance Concepts
  ◦ Best Practices for Network Configuration with NetApp Storage Systems
  ◦ Both node panic repeatedly with two different panic strings
  ◦ Broadcast-domain configured with ports from multiple VLANs
  ◦ Broadcast domain is partitioned into 2 groups on node name. The different groups are: {A0A}, {E0M}
  ◦ Replication Director: Browsing and Tape backup operations will not succeed If the source volume or backup selection is a CIFS path and owned by vFiler
  ◦ Bursty workload could affect performance
  ◦ CA-signed SSL certificate install with custom certificate name fails with duplicate entry
  ◦ Cannot access CIFS shares if SVM root volumes is offline
  ◦ Error "Data ONTAP API Failed :Cannot add "DomainUser" to group "BUILTINAdministrators". Reason: duplicate entry. ( : 13001)" in ONTAP 9 System Manager
  ◦ Cannot connect or browse to a CIFS server via hostname, however, access via IP works
  ◦ Cannot create local user for application after AD migration
  ◦ Cannot delete or rename a file, an empty directory or qtree
  ◦ Cannot login to ONTAP/OnCommand System Manager using local user
  ◦ Cannot mount or access an NFS volume
  ◦ Cannot see one of the two cluster switch from "cluster-switch show" command output
  ◦ Can "secure-purge" be run on a system using an Onboard Key Manager?
  ◦ Can an interface group (IFGRP) be modified after it is created?
  ◦ Can a CIFS server belong to multiple domains?
  ◦ Can a filer belong to multiple domains?
  ◦ Can a percentage increased of a snapshot volume be set a volume of over currently free space ?, when volume autosize increasing was set
  ◦ Can a volume junction-path be renamed?
  ◦ Can CIFS service be terminated on 7-mode before executing CFT?
  ◦ Can fabricpool tiering immediately be stopped by changing the policy to None?
  ◦ Can I add an alias or alternate IP to a vif (ifgrp)?
  ◦ Can I change the LUN type from image to linux?
  ◦ Can I create a clone from pre conversion snapshot for FlexGroup
  ◦ Can I manually partition unassigned disks if internal shelf is already partitioned in ADPv2?
  ◦ Can I remove a disk from root aggregate in ADP partitioned shelf in order to use it as an unpartitioned spare in a data aggregate
  ◦ Can I revert the maxdirsize value to a smaller value?
  ◦ Can I set UNIX style permissions from an NFS mount on an NTFS qtree?
  ◦ Can junction-path be created underneath normal directory?
Can NAS audit logs be forwarded to a syslog server or an external path?

- Can NetApp Appliances support other file system types besides WAFL?
- Can Network File System (NFS) mount the filer from one client, but cannot mount successfully from another type?
- Can one Data Aggregate have both the ADP type and non-ADP type RG?
- Can Ontap CIFS clients survive a LIF migrate?
- Can RPC port 111 be disabled in ONTAP?
- Can SnapMirror Compression be used with Synchronous SnapMirror?
- Can the cf giveback -f command be disruptive?
- Can the default block size of 4K be changed?
- Can the hidden 10 percent disk space reserved for WAFL be adjusted?
- Can the maximum number of inodes in a volume be set lower than the 1 per 32kb default?
- Can the number of maximum concurrent SSH "sessions per node" and "connections per second" be modified?
- Can the user used for AD authentication be removed from the domain admin group?
- Can UNIX groups be mapped to Windows domain groups?
- CDOT: Vscan shows disconnected with Disconnect Reason being none or ")"
- Change a misconfigured SVMDR -identity-preserve from False to True
- Changing ownership of a file/folder to a user from a trusted domain fails
- chown returns invalid user on a NFSv4 mounted exports
- CIFS access failure after NS-SWITCH configuration change
- Cifs access from client fails and EMS logs Nblade.noSmbVerNegotiated
- CIFS access lost after MetroCluster switchover due to Vscan scanner pool unavailability
- CIFS authentication fails due to bad kerberos ticket from DC. Error: Response is incorrectly signed
- CIFS clients cannot access the snapshot directory in ONTAP 9
- CIFS Client Access Fails on ONTAP 9.2+ After CIFS Password Reset
- CIFS Client Change Notification setting can cause unnecessary load in ONTAP
- CIFS connections denied: Unable to acquire filer credentials: (0x96c73a12) Clients credentials have been revoked
- CIFS copy slows or stalls at the end of a file copy
- CIFS created sparse files increase the used space
- CIFS creation fails with 'Kerberos Error: Incorrect net address'
- CIFS creation fails with LDAP error: a constraint violation occurred
- CIFS GPO update job fails with errors
- CIFS latency after upgrade of Varonis DatAvantage
- What is CIFS Max Multiplex and how to increase maximum number of simultaneous outstanding Windows client requests that a controller allows?
CIFS performance is slow, is the SMB 3.0 protocol with multichannel supported?

- CIFS server delete fails with the "Error: command failed: Failed to remove the CIFS BranchCache configuration"
- cifs server deletion failed with Error "Local domain "S-1-5-21-XXXX-XXXX-XXXX" not found"
- CIFS setup fails with "No Kerberos keys for this account in Active Directory"
- CIFS shares not available due to time difference (KRB5KRB_AP_ERR_SKEW)
- CIFS shares unavalable due to 'BROKEN' connection to Domain Controller due to NBT/NetBIOS over TCP settings
- CIFS Share error "The document is locked for editing by another user" message is not generated when user2 opens the same MS office file already opened by user1
- CIFS Share inaccessible error "Unable to start TLS: Connect error" when LDAPS is disabled on DC.
- CIFS share inaccessible with Secd error: secd.cifsAuth.noNameMap for Clustered Data ONTAP
- CIFS share is not accessible due to volume not mounted
- CIFS share is only accessible by a limited number of users
- Cifs share not accessible because its incorrectly configured as homedirectory.
- CIFS share not accessible by user even with share permission Everyone - full control
- CIFS share not serving data because the Audit Log Destination is full
- The error "file names are larger than is supported by the file system" seen on Windows clients for ONTAP 9
- CIFS stopped and all shares are unavailable - cifsMaxSessPerUsrConn
- Clients intermittently unable to access CIFS shares over SMB1
- Client applications report high space usage, ONTAP does not
- Cloning is not offloaded via NetAPP NFS Plug-in for VAAI
- Cloud volume ontap unresponsive due to unexpected character in instance user data
- Cluster-Mode vServer Management: How to set up Management Roles
- Clustered Data ONTAP could not authenticate to domain controllers
- Clustered Data ONTAP NFS access snapshot
- Cluster configuration backup creation failed
- Cluster Data ONTAP: How to remove "Everyone" from the file level permissions at the top level of a volume
- Cluster hw_assist: hw_assist functionality is inactive - How to configure hw_assist
- Cluster join fails due to vifmgr process failure
- CLUSTER NETWORK DEGRADED reported with Nexus 3132Q-V switches utilizing 40G breakout cables
- Cluster peering displays an incorrect name after a cluster was renamed
- Cluster peering fails with error message Cannot peer with two clusters of the same name
- Cluster peering reports Pending availability in clustered Data ONTAP 8.3.1 and later
- Cluster Session Manager (CSM) sessions fail with csm.sessionFailed:warning error CSM_CONNABORTED
- Cluster update hanging with status "pause-pending" due to a time mismatch
- Command "health subsystem show" gives warning: Unable to list entries - RPC Remote system error
Common EMS messages for Vscan

- Common Reasons "vserver cifs create" Fails when trying to join Active Directory
- Communications issues due to reverse path checking (Rvs-Path-Chk) configurations
- Compression of existing data cannot proceed. Large amount of shared data can cause significant extra space usage
- Configuring Varonis FPolicy using mutual-auth
- Constant High Disk Utilization in the Root Volume
- The file or directory can not be deleted by NFS following error: directory not empty
- Controller panic during ONTAP upgrade caused loss of data access
- Controller Resource Headroom
- Coredump aborted due to a core in the dump device, which was not saved yet.
- Could a storage bottleneck be causing Microsoft Exchange server to be slow?
- Creating a Snapshot copy fails on FlexGroup Volume
- Credentials pop-up appears when MAC client tries to access the CIFS share.
- CSHM fails to monitor Broadcom BES-53248 switch- reason Unsupported Model
- Database crashed with "No space left on device" error
- Data ONTAP 7Mode Vfiler migrate fails with Connection refused error message
- Data ONTAP 8.0.x: How to initialize a pair of nodes
- Data ONTAP 8.0.x: How to unjoin a node from a cluster
- Data ONTAP 8.0.x clustered ONTAP: How to configure a pair of clean nodes and join them to an existing cluster
- Data ONTAP 8: Examples of how to use the route add and network interface route create commands
- Data ONTAP 8: How does disk ownership of NetApp Shared Storage work and what are the requirements?
- Data ONTAP 8: How to accurately determine CPU utilization of a Data ONTAP 8.0 Cluster-Mode cluster
- Data ONTAP 8: Where are EMS and messages log files written in Data ONTAP 8.0?
- Data ONTAP 8 and later releases fail to synchronize time with Windows w32time NTP server
- Data ONTAP 8 does not support LDAP signing (secd.ldap.connectFailure)
- Data ONTAP and Disk Qualification Package (DQP)
- Data ONTAP Licensing
- DDNS delete operation failed
- Deduplication attempt on a volume fails with error: Failed to save configuration
- Default storage efficiency (deduplication) policy not working with daily time schedule
- Delayed ack's and Nagle's algorithm can reduce throughput
- Deleted operations are not being audited when using external FPolicy server
- Deleted snapshots rolling over to older snapshots
- Delete events are not observed on Varonis FPolicy for SMB3 clients for ONTAP 9
- Deleting more than 2 percent of a volumes total size causes performance impact
Deletion takes longer for large directories when the SMB CLOSE requests are running for longer duration

Description of SCSI check condition

DFS links do not work on MAC OS client, with ONTAP 9.5 and symlinks enabled

DFS namespaces with targets pointing to folders within CIFS shares cannot be seen by Mac OS clients

DF shows more used capacity compared to quota report

Discovering permissions in ONTAP

Discrepancies between aggregate and volume when using the df command

Disks are added to Storage Pool but the raid groups do not expand

Disks are not owned or report a Bad label after running the disk sanitize release command

Disks show as offline on rebooting Windows 2008 host after a Data ONTAP upgrade

Disk disappears in Windows Server post reboot

Disk label version error or bad label version error

Disk reconstruction fails to start in Data ONTAP 7-mode

Disk Sanitization

disk sanitize error message: Pattern Limit Reached

 Disk showing an 'Unknown' container-type

DNS fails during DC Discovery

DNS timeouts are occurring when an SVM is not getting responses from the configured DNS servers in time

DNS timeouts due to no response from DNS servers within configured timeout for ONTAP 9

Does AutoSupport support Office365 as a smtp server?

Does CIFS needs to be restarted when disabling or enabling oplocks?

Does Data ONTAP 8 7-Mode support Common Internet File System Protocol (CIFS) data transmission encryption?

Does Data ONTAP support kerberos authentication requests across forest trusts?

Does Data ONTAP support Windows NTFS symbolic links?

Does disk reconstruction lead to performance impact

Does enabling Quotas increase CPU Utilization?

Does Flash Cache cache data in Flash Pool and SSD Aggregate in ONTAP 9?

Data ONTAP 8.2 does not support Flash Cache for the current installed base of FAS/V3210 and FAS/V3140 (7-Mode or clustered Data ONTAP)

Does ONTAP support 31-bit subnet masks for IPv4 point-to-point links?

Does ONTAP support Perfect Forward Secrecy (PFS)?

Does ONTAP support port 636 for LDAPS?

Does ONTAP support Samba clients?

Does ONTAP support Samba domain controllers?

Does ONTAP support single-label domains?

Does the 7MTT support transition of export path with alias on ONTAP 9?
○ Domain user authentication to access filer via CLI or https
○ Domain user unable to authenticate to cluster using AV Connector
○ Don't able to specify the option "audit-policy-change" when CIFS audit creation
○ Do V-Series systems have multipath software?
○ DR CONFIG REPLICATION FAILED ERROR: Schedule custom_schedule not found
○ During cifs setup or vserver cifs create, a failure occurs due to KRB5KDC_ERR_ETYPE_NOSUPP (KDC has no support for encryption type)
○ During periods of high traffic, what is an acceptable percentage of discarded packets in ONTAP?
○ During upgrade ONTAP fails to boot from the new image
○ Dynamic DNS registration fails
○ E-mail message notifying that an AutoSupport was sent is not received by the Admin
○ e0M port down; no hardware and network issue
○ Why does a Data ONTAP Edge system fail to start and return the error: VM will not be powered on due to enabled CPU power management features on the host system?
○ EMS error: secd.*.noServers:EMERGENCY
○ EMS Event maxCID.threshold.exceeded or maxCID.limit.exceeded
○ EMS event not transmitted to IPv6 syslog server
○ EMS log reports "Nblade.cifsShrConnectFailed" error
○ EMS log reports cacheOverflow:warning
○ EMS log reports the event "spm.mgwd.process.exit"
○ EMS log reports the event "spm.secd.process.exit:EMERGENCY"
○ EMS message 'fcp.io.status: Ext_Status 0x1d' frequently occurring
○ EMS message 'fcp.io.status: Ext_Status 0x5' frequently occurring
○ EMS message 'fcp.io.status: state=5' frequently occurring
○ EMS message 'fcp.io.status: state=7' frequently occurring
○ EMS message 'fcp.io.status: state=8' frequently occurring
○ EMS reports "No redundancy in the failover configuration" for one or more LIFs
○ EMS reports "socket.queue.limit.reached" error
○ Enabling deduplication fails with Operation is not configured error
○ Enabling SNMPv3 in a FIPS-compliant environment fails with failed to automatically delete SNMP users and SNMP traphosts that are not compliant with FIPS
○ Enabling Storage Efficiency on transitioned volumes from 7MTT
○ Enabling the Windows explorer previous versions tab in ONTAP
○ Encrypted volumes offline after giveback in ONTAP 9.7
○ Encryption : Unable to create key on SafeNet Key Server in ONTAP error: Security settings do not allow global key usage
○ Encryption Safenet KeySecure _Register Missing: Cryptographic Usage Mask Error
Error: The program cannot open the required dialog box because it cannot determine whether the computer named "cifs-server" is joined to a domain

- ERROR: 13303866: Associating the specified SnapMirror policy with this SnapMirror relationship is not supported
- Error: Can’t read from source file or disk with fpolicy enabled
- Error: CLUSTER NETWORK DEGRADED
- Error: command failed: An update is in progress, retry command after it is completed
- Enabling Onboard Key Manager (OKM) is failing with error: "Error: command failed: Multitenant key management requires an effective cluster version of 9.6.0 or later."
- Error: Lookup of CIFS account SID procedure failed
- Error: Nbblade.cifsMaxSessPerUsrConn when CIFS Clients attempt to access files in Ontap
- Error: Nbblade.vscanConnInvalidUser, however ServerProtect™ and "ONTAP AV Connector" service usernames match privileged user in ONTAP
- Unable to create a volume after removing NetApp Volume Encryption (NVE): Error: ONTAP API Failed: Key manager is not configured on the cluster
- Error: The software driver for the Remote LAN Module (RLM) has detected a problem: Configuration Error (1)
- Errors encountered during controller bootup: fci.config.missing
- Error "cannot determine whether the computer named "cifs-server" is joined to a domain" when adding or modifying Security tab of CIFS Share hosted by Ontap
- Error "sis.changelog.full" for one or more volumes
- Error "The specified port is not assigned to Default IPspace" when adding a port to an Interface Group
- Error "This storage Virtual Machine does not have a root volume"
- Error - Abort Command issued from host
- Error 0x80: Server not listening on called name, VScan server failed to connect
- Error dns.server.timed.out
- Error found in SecD logs every four hours: DNS server failed to look up service (_ldap._tcp.domain)
- Error message: Aggregate Snapshot copies are used in SyncMirror aggregate. That is not recommended
- Error message: Decrypt integrity check failed
- Error message: Permanent errors on all HA mailbox disks (while writing master block) in process fmbnx_instance
- Error message: sm_recover: no address for host
- Error message: Stale Network File System (NFS) file handle
- Error message: The following initiator groups have ALUA setting mismatch
- Error Message: Unable to acquire filer credentials: (0x96c73a18) Invalid password
- ONTAP reports an error message "CIFSRPC: Ignoring invalid share-level acl"
- ERROR netgroup.files.missing when ns-switch points to file and a netgroup file has not been loaded for ONTAP 9
- Error when accessing a CIFS share resource: Multiple connections to a server or shared resource by the
same user is not allowed

- Error when creating a junction path: /vol/volname or mounting a volume to the path: /vol/volname in Data ONTAP Cluster-Mode
- Error while negotiating protocol, VScan server failed to connect
- Error while trying to add 7-mode Filer to 7-Mode Transition Tool (7MTT): Failed to communicate with the host system using TLS or SSL protocols
- Essential Case Framing - Performance
- Ethernet RLM and e0M interface keeps going down
- Event forwarding to a Syslog server
- Event log show error netif.linkErrors
- Event message: secd.nfsAuth.noNameMap
- Existing Snapshot policy schedule stops to create new Snapshot copies
- Expand FlexGroup volume failed when adding a constituent of size 100 TB
- Explicit user quota rules for NFS/CIFS accounts with only numbers not correctly handled
- export-policy check-access indicates a different level of mount access than is actually supplied during mount
- Extra Cluster interfaces created during Cluster setup
- FabricPool: Unable to add object-store and gets Access denied error
- Failed to apply the source Vserver configuration. Reason: Apply failed for Object: volume Method: baseline. Reason: entry doesn't exist
- Failed to become an official package distributor for netgroup-file-vsdi
- Failed to copy existing Kerberos keyblocks when modifying kerberos configuration of a LIF for ONTAP 9
- Failed to create aggregate Reason: aggregate already exists
- Failed to create CIFS server. Reason: duplicate entry. (Error: 13001)
- Failed to create SSL certificate for node Vserver on clustered Data ONTAP 8.3 with error: Failed to store the certificates
- Failed to delete qtree. Reason: qtree contains files
- NetApp Volume Encryption: Error when attempting to encrypt a volume - Internal error. Failed to generate volume key in kernel. Key manager returned ERROR_KEY_GEN_CRYPTO_FAILED. Crypto return code: 13
- Failed to initiate giveback. Reason: Unable to read partner state
- Failed to resolve the security identifier (SID) for the account named "TEST\user". Reason: Bad user 'user' or domain 'TEST'. (Error: 13001)"
- Failed to revert a non-local Cluster LIF
- Failure Error Message: Disk %s cannot be used on a node configured as Flash Optimized
- Failure error message: Event destination is being used for routing message
- Failure Error Message: interface e0b has IP addresses: cannot change ipspace
- Failure Error Message: vol autosize: Operation not supported on FlexGroups
- Failure to open files with long names in ONTAP
False alert "Nblade.cifsNonAesNiBytesProc:Excessive SMB3 cryptographic processing load" is logged in systems supporting AES-NI
A false "SwitchFanNotPresent_Alert" message is reported by Cluster Health Monitor
FAQ: ADR FS/ADR Engine/BRE performance issues
FAQ: Consistency Point
FAQ: FlexVol Volumes
FAQ: FPolicy: Auditing
FAQ: How is space utilization managed in a Data ONTAP SAN environment?
FAQ: Licensing updates in Data ONTAP 9.2
FAQ: NetApp Volume Encryption and NetApp Aggregate Encryption
FAQ: Overview of Event Management System for ONTAP 9
FAQ: Perfstat collection methods omnibus
FAQ: Quotas
FAQ: Reallocation for Provisioned Storage
FAQ: Storage Quality of Service (QoS)
FAQ: Troubleshooting clustered data ONTAP upgrades
FAQ: Understanding clustered Data ONTAP Offbox Vscan server extended metrics
FAQ: Unicode conversions
FAQ: Using Windows MMC with ONTAP
FAQ: What are the options available as Antivirus Connector Command Line Switches
FAQ: Custom roles for administration of ONTAP
FAQ - FlexClone split
FAQ - User File Operations
FAQ - Windows dynamic disks on NetApp LUNs
EMS message 'fcp.io.status: AEN 0x8048 (RECV_ERROR)' frequently occurring
Fcp adapter show command throws 'Operation timed out' error
FCP LIF goes down when the controller is directly connected to the initiator
FCP/FCoE LIF reports operationally down
Fibre Channel dropout issue
File's time stamp is incorrectly set to future time
Filer throws error message service is disallowed when trying to start protocol services
File reappears after deleting it in Windows Explorer
Firewall policy mgmt-nfs does not contain portmap rule
Flexgroup constituents are unbalanced after conversion from Flexvolume
FlexVol covert into FlexGroup failed in error "Volume has invalid on-disk flags or options"
FLI (Foreign lun import) import is slow

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FPolicy: Native File Blocking

- FPolicy - When natively blocking everything except specific files
- FPolicy configuration replication process fails
- FPolicy disconnects due to failure to replicate RDB
- Fpolicy EAGAIN errors seen in fpolicy.log in ONTAP
- FPolicy enable does not result in engine-connect with many policies for ONTAP 9
- FPolicy file blocking for ONTAP 9
- FPolicy is not working, files are not getting blocked
- FPolicy not working and unable to provide auditing mechanism for NFS/CIFS with FPolicy ONTAP native engine
- FPolicy server frequently disconnects due to TCP port not 'Listening'
- Giveback of one or more aggregate failed: operation vetoed by "lock_manager"
- Ha pair does not synchronize with timeserver in Data ONTAP 7
- Heavy SMB signing pressure causes high SMB3 latency from Network CPU domain
- High availability pair license mismatch
- High CPU utilization in HOST domain
- High CPU utilization with many concurrent 'block ownership' scanners
- High Disk utilisation due to excessive Container Block Reclamation scanners
- High Disk Utilization causing Login Problems on VDI
- High FlexGroup CIFS latency due to CIFS ChangeNotify
- High HostOS domain CPU utilization after deletion of LS mirror
- High latency and slow throughput when creating volumes via OnCommand System Manager's 'Application and Tiers' function
- High latency on database log volumes
- High latency using LogicMonitor despite lower ONTAP latency
- High latency when mounting an Infinite Volume with one or more full constituents
- High read latency during backups with dedupe/backup/scrub running concurrently
- Home directories do not work after Data ONTAP upgrade to 8.2.2
- Host-side SCSI timeouts when using Microsoft iSCSI software initiator
- Hosts are unable to login to FCP LIF due to Brocade defect DEFECT000387237
- How are FlexGroup Inodes calculated after increasing the limits?
- How can I check in ONTAP if an external service such as netlogon, ldap-ad, Isa, ldap-nis-namemap, or nis is responding slowly?
- How can I find out who deleted a file or folder?
- How can I nest NFS exports?
- How can I see the mapping between the AIX hdisk and the NetApp LUN?
- How Data ONTAP Upgrade Advisor helps to perform a Data ONTAP upgrade or revert to an earlier
How does Access Based Enumeration (ABE) work?
How does AUTH_SYS Extended Groups change NFS authentication?
How does a multimode vif interact with ip.fastpath?
How does a VIF MAC address get assigned in ONTAP 7?
How does Data ONTAP respond, when a medium error occurs during a disk reconstruction?
How does Data ONTAP select spares for aggregate creation, aggregate addition and failed disk replacement?
How does disk sanitization in ONTAP help to prevent recovery of data?
How does file locking prevent access?
How does Gigabit Ethernet flow control work?
How does IP fast path function?
How does load balancing on a VIF work?
How does NVFAIL work with LUNs in clustered Data ONTAP 8?
How does NVFAIL work with LUNs in Data ONTAP 7-mode?
How does ONTAP 9.2+ select a route?
How does setting the use_host_scanners option in a vfiler affect vsan?
How does showmount work with clustered Data ONTAP?
How does the deduplication changelog work?
How does the FabricPool inactive data reporting work?
How does the Snapshot reserve work?
How does WAF and striping distribute data among disks?
How does WAF_check and wafliron interact with Snapmirror destination volumes in Clustered Data ONTAP 8?
How do Dynamic Home Directories improve performance?
How do export-policies work in clustered Data ONTAP?
How do I check the HBA and link speed from a Solaris Host?
How do I display the MAC address of interfaces in a VIF
How do I find the cluster hosting the source SVM of a dp-destination SVM using AutoSupport?
How do I know if CPU is causing a performance issue?
How do I track down a misbehaving UNIX or Linux NFS client in 7-mode?
How do LS mirrors affect NAS access when new volumes are added?
How do lun reset and target reset commands affect SCSI-2 Reservations?
How do the CREATE_UCODE and CONVERT_UCODE options control unicode conversion in Data ONTAP releases?
How is the return value of "diskSpareCount" obtained by SNMP GET in the ADP environment counted?
How locking works in Clustered Ontap and how to manually break locks
How long do DNS records remain in the ONTAP's DNS cache?
How long the interval to check the cluster peer health for each of nodes?
How many AutoSupport email notifications would be received if autosupport.to and autosupport.partner.to are set to the same?
How many qtree deletion job can be performed at once
How many vol move operations can be active at the same time
How Quotas display with NFS clients "df " output?
How Selective LUN mapping (SLM) works
How to access a core file from a cluster node that has gone down
How to access CIFS from Linux machine using SAMBA
How to access snapshots from NFS clients
How to add a domain user to the built-in local administrators group in clustered Data ONTAP
How to add a resource in a vFiler DR configuration
How to add disks to an existing data aggregate in a root-data1- data2 configuration
How to add larger capacity disks to a RAID group that contains smaller capacity disks
How to add lines to a configuration file on the storage system using wrfile. The command wrfile does not have an option to Exit without Saving
How to add NetApp SNMP MIB to Wireshark
How to add or remove an interface from an ifgrp
How to add Windows domain global groups to filer local groups using the useradmin command
How to administer a SVM with an AD account with no CIFS server configured?
How to adopt AOD (AutoSupport On-Demand)
How to allow anonymous root mount
How to Analyze Oracle Database Performance Issues
How to Assess Disk Response Times in ONTAP
How to audit CIFS share deletes from a client with CIFS Auditing
How to avoid block corruption when files are greater then 4GB due to an Oracle client-side NFS bug
How to boot a node after a power loss or a high-temperature shutdown
How to break Common Internet File System Protocol (CIFS) locks from a Windows host
How to calculate a volumes usable and physical space
How to calculate SAP HANA's "alter system reclaim datavolume" command percentage after hitting bug 865444
How to calculate the non-guaranteed volume for thin provisioning space on df
How to capture packet traces (PKTT) on Data ONTAP 8 Cluster-Mode systems
How to capture packet traces (tcpdump) on ONTAP 9.2+ systems
How to change default gateway (Route) in ONTAP 9
How to change default permissions for Network File System(NFS) access to Common Internet File System
protocol (CIFS) files

- How to change directory/file ACLs using the NetApp tool "secedit.exe"
- How to change disk ownership between two heads on FAS2000 or FAS3000 series
- How to change disk partition owner
- How to change security styles for volumes or qtrees
- How to change the bootable image using the system image modify command
- How to change the default gateway to a new gateway
- How to change the IP address of a DR vFiler
- How to change the IP space or broadcast domain on a port
- How to change the RAID group size
- How to change the RAID reconstruction speed and disk scrubbing speed
- How to change the raid scrub schedule
- How to change the root password of systemshell user
- How to check external connectivity from ONTAP
- How to check snap schedule and snap reserve on aggregates
- How to check the NVRAM Battery status and voltage reading in Clustered Data ONTAP 8.x
- How to clean up failed volume move records in ONTAP
- How to clear bad file contents from NDMP configuration
- How to clear the ARP table
- How to collect a network trace with pktt in Data ONTAP 7-Mode
- How to collect a Perfstat7 on Windows 2008, Windows Vista, and Windows 7 using openSSH (Data ONTAP 7-Mode)
- How to collect a Perfstat from a clustered Data ONTAP system in Mac OS X
- How to collect a Perfstat from a clustered Data ONTAP system in Windows
- How to collect a Perfstat from clustered Data ONTAP systems using the Perfstat GUI
- How to collect a Perfstat from clustered Data ONTAP using the CLI in Linux
- How to collect data for an RCA of a SAN event that occurred in the past
- How to collect debug logs for the Data ONTAP PowerShell Toolkit
- How to collect performance data when Perfstat8 fails by using preset files and manual data collection
- How to collect Performance Statistics for intermittent issues
- How to collect Perfstat data over RSH
- How to collect rolling packet traces using pktt on ONTAP 9.1 and below systems
- How to collect WAFLTOP output from cli
- How to configure AD authentication for cluster when CIFS is not licensed
- How to configure and enable remote shell (rsh) access on a storage system
- How to configure and troubleshoot NTP on clustered Data ONTAP 8.2 and later using CLI
How to configure antivirus with a CIFS Server in Workgroup mode

How to configure audit volume in clustered Data ONTAP for the transitioned SnapLock volumes

How to configure AutoSupport (ASUP) messages to be triggered automatically for certain EMS events

How to configure AutoSupport in Data ONTAP

How to configure AutoSupport in ONTAP 9

How to configure a Brocade switch for SNMP

How to configure a firewall that resides between a Windows Domain Controller and a NetApp controller

How to configure a qtree which can be accessed by both Unix and Windows users

How to configure a Vserver DR in clustered Data ONTAP 8.3.1 and later

How to configure CIFS Auditing to capture a folder rename

How to configure CIFS/UNIX Access in Mixed Security without Permissions Clobber

How to configure clustered Data ONTAP home directories

How to configure DNS per SVM for versions later than clustered Data ONTAP 8.2.1

How to configure FTP / SFTP to use Windows authentication

How to configure LDAP Authentication for Cluster (Admin) SVM

How to configure LDAP on a filer to connect to Microsoft's Active Directory LDAP implementation

How to configure LIF failover destinations in Data ONTAP 8.0 Cluster-Mode

How to configure LIF failover destinations in Data ONTAP 8.1 Cluster-Mode

How to configure native FPolicy in ONTAP to block extensions

How to configure NDMP authentication in the ‘SVM-scope’ (previously known as 'Vserver-scope’) mode

How to configure NetApp storage systems for Network File System version 4 in AIX and Linux environments

How to configure NetApp Volume Encryption

How to configure netgroups in clustered Data ONTAP

How to configure NFSv4 in Cluster-Mode

How to configure non-root users to change ownership of files

How to configure non-root users to change ownership of files using NFS in ONTAP

How to configure no_root_squash on Ontap 7mode and Clustered Data ONTAP

How to configure NSE in clustered Data ONTAP 8.3.1 and later

How to configure ONTAP 9.X AutoSupport with node-specific “from” address

How to configure quotas (including a tracking quota) in Data ONTAP Cluster-Mode

How to configure RSH on a Windows 2008 server

How to configure SFTP on a 7-Mode storage system

How to configure SNMP with user-defined traps

How to configure the Onboard Key Manager (OKM) for password protected boot

How to configure weekly only AutoSupport messages and exclude daily management logs and performance data
How to confirm the value of "-cliset" and "-ontapiset" in ONTAP 9?

- How to convert an existing SnapMirror DP relationship to a SnapMirror XDP relationship in clustered Data ONTAP
- How to convert a CIFS SVM from a domain membership to workgroup
- How to convert a CIFS SVM from workgroup to domain membership
- How to convert a clustered Data ONTAP 8.x node to a 7-Mode node
- How to convert a volume or LUN from thick to thin provisioned
- How to copy a qtree from one volume to another volume
- How to copy SP or BMC firmware to controller via SCP from Windows
- How to create aligned partitions in Linux for use with NetApp LUNs, VMDKs, VHDs and other virtual disk containers
- How to create and apply quota policies in clustered Data ONTAP
- How to create and understand vserver name-mapping rules in clustered Data ONTAP
- How to create a CIFS server on a clustered Data ONTAP storage system
- How to create a custom Performance Preset for Performance Archives
- How to create a LIF with failover targets in the same VLAN
- How to create a new passphrase then re-key disks for NetApp Storage Encryption (NSE) if the original passphrase is lost - Data ONTAP 8.3.1 or later
- How to create a root squash export policy rule in ONTAP
- How to create a snapshot retention policy in clustered Data ONTAP using the CLI
- How to create a symbolic link in ONTAP without the need for NFS
- How to create cluster and Vserver peer relationships with duplicate names in ONTAP 9
- How to create or remove auditing staging (MDV) volumes
- How to create the C$ and ETC$ CIFS shares in Data ONTAP 7-Mode
- How to create VLANs on an ifgrp
- How to cryptographically sanitize a system with all self-encrypting disks (SEDs)
- How to customize clustered Data ONTAP output formats for easy importing into Excel
- How to decode the Sense Key Codes returned from SCSI disks
- How to decrease the number of inodes for a volume
- How to define a new root volume on a different aggregate?
- How to delete an aggregate form the object store after moving the volumes to new aggregate?
- How to delete an aggregate if deletion of FlexVols is not possible
- How to delete a FabricPool object-store
- How to delete a Load-Sharing Mirror volume due to inconsistency
- How to delete a qtree or directory
- How to delete a snapshot
- How to delete CIFS server without deleting the machine account from AD
How to delete the leftover AUDIT MDV staging volume when CIFS auditing is already disabled?

◦ How to detect corruption of stored data blocks
◦ How to determine if a Riverbed appliance is in packet trace
◦ How to determine if a Windows Domain Controller is a suitable NTP server for Data ONTAP 8 and later
◦ How to determine if my VIF is load-balanced evenly
◦ How to determine if volumes contain non-Unicode directories
◦ How to determine the disk and shelf firmware version on a controller and verify it is up to date
◦ How to determine the node, port, or lif to which a client should be connected
◦ How to determine the ONTAP versions installed on boot device from LOADER prompt
◦ How to determine who is logged in to a cluster
◦ How to determine why a lif is on a certain port or node
◦ How to diagnose port issues in Clustered Data ONTAP
◦ How to disable aggregate snapshots in clustered Data ONTAP
◦ How to disable default encryption in ONTAP 9.7
◦ How to disable ip.fastpath in Clustered Data ONTAP
◦ How to disable or modify cache settings for a FlexVol resident on a Flash Pool
◦ How to disable root volume snapshots in ONTAP 9
◦ How to disable weak server_host_key_algorithm "ssh-dss" in ONTAP
◦ How to disable SSLv2 and SSLv3 in Data ONTAP for CVE-2016-0800 and CVE-2014-3566
◦ How to disable Storage Efficiency for a destination volume in SVMDR relationship
◦ How to disable the SSH security banner "Last login time"
◦ How to discover Active Directory Domain Controllers using nslookup
◦ How to display autosize information in ONTAP 7.2.x and 7.3.x
◦ How to display network statistics using ifstat
◦ How to display security permissions of a file or directory in a volume
◦ How to display the security permissions of a file from the 7-mode filer
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◦ How to display top volume IOPs in ONTAP 9
◦ How to download and use the ZExplorer ZAPI Tool
◦ How to download disk firmware when upgrading Data ONTAP
◦ How to download NetApp Data ONTAP Edge
◦ How to efficiently search the event log in clustered Data ONTAP
◦ How to enable "httpd.admin.enable" in clustered Data ONTAP
◦ How to enable and verify SMB signing when using the DataFort
◦ How to enable auditing of NFS events on clustered Data ONTAP
◦ How to enable AV Connector Logging
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- How to enable jumbo frames in ONTAP 9 and clustered Data ONTAP 8.3
- How to enable LDAP signing and sealing for CIFS in ONTAP 9
- How to enable NAE aggregate-level encryption with an SVM root volume or MDV_CRS volume (MCC)
- How to enable NDMP debug logging on a node-scope configuration in clustered Data ONTAP 8.2 and later
- How to enable or disable i2P on a volume
- How to enable or disable Netbios over TCP in ONTAP 9
- How to enable remote access to a node root volume in a cluster
- How to enable SMB 1.0 in ONTAP 9.3
- How to enable SNMP v3 in ONTAP
- How to enable SSL communication between VMware vCenter Site Recovery Manager 5 and NetApp FAS storage arrays
- How to enable the equivalent of all_squash in clustered Data ONTAP
- How to enable the volume recovery queue in clustered Data ONTAP 8.3
- How to enable UNIX Style SFTP authentication
- How to enable Windows Explorer previous versions tab in ONTAP 9
- How to enable/disable Strict Guarantee of Auditing for native auditing
- How to encrypt volumes by default
- How to enter the filer's CIFS shares in the DFS root tree
- How to exit the systems shell login loop
- How to expand an A-SIS enabled volume that is nearing the vol size limit
- How to find export policy to create report using Active IQ
- How to identify VSCAN server latency
- How to find SNMP Object IDentifier (OID) based on Management Information Base (MIB) element
- How to find the serial number of a LUN in Windows using PowerShell
- How to find the version of OpenSSL shipped with ONTAP AV connector?
- How to find the volume fsid, directory ID, inode and file name from a packet trace on file handle
- How to flush netgroups cache in clustered Data ONTAP?
- How to force SMB over TCP when NetBIOS is disabled on an Active Directory domain controller
- How to forward audit log messages to a syslog loghost
- How to forward syslog messages to a remote syslog loghost in clustered Data ONTAP
- How to frame a Performance case relating to SAN
- How to give a client full control to a junctioned volume over NFS, but no access (not even read access) to the root volume of a vserver
- How to grant access to NULL (Anonymous) user in Clustered Data ONTAP
- How to grant and remove access to CIFS shares
- How to guarantee machine account access to a CIFS share

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- How to halt and boot a 7-Mode node
- How to halt a single node without takeover in a two-node ONTAP cluster
- How to handle incompatible or unsupported SMB clients with ONTAP
- How to harden ONTAP 9 TLS configuration
- How to identify a device by its World Wide Name (WWN) or MAC address?
- How to identify bully workloads from Linux
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- How to identify bully workloads from Windows
- How to identify bully workloads using packet traces in CIFS or NFS environments
- How to identify CIFS open files using the ONTAP CLI
- How to identify full volume name from qos statistics output
- How to identify if ADP is configured on clustered Data ONTAP 8.3
- How to identify if the running ONTAP version supports NetApp Volume Encryption (NVE)
- How to identify spare disks for root-data partitioning in clustered Data ONTAP 8.3
- How to identify the iSCSI software initiator node name (IQN) from a host operating system
- How to identify top workloads from a user workload causing storage latency
- How to immediately send full Autosupport report to the configured list of recipients
- How to increase inodes in a volume and under what circumstances do they increase?
- How to increase maxfiles on a volume in clustered Data ONTAP
- How to increase the maximum number of volume inodes or files
- How to increase the TCP receive window buffer size for Inter-Cluster and IntraCluster Volume SnapMirror
- How to increase the TCP window to its maximum setting for Data ONTAP 7-Mode
- How to install a root-ca certificate for AD LDAP
- How to join a node into a Netapp Storage Encryption Cluster
- How to limit iSCSI initiator access to target portals
- How to limit the maximum number of postprocess compression and deduplication processes running in parallel
- How to lower Network File System (NFS) operations by enabling NFS client attribute caching
- How to make major changes to vif configuration with minimal impact to system availability
- How to make symbolic links (widelinks) work for CIFS clients on clustered Data ONTAP
- How to manually collect all logs from a 7-Mode system
- How to manually collect all the logs from a clustered Data ONTAP cluster
- How to manually collect logs and copy files from a clustered Data ONTAP storage system
- How to manually send AutoSupport files to NetApp
- How to manually send user-triggered AutoSupport files to NetApp in Clustered Mode
- How to manually trigger a complete AutoSupport for clustered Data ONTAP from the CLI
How to manually upload AutoSupport messages to NetApp in Clustered Data ONTAP 8.0.x
- How to manually upload AutoSupport messages to NetApp in Clustered Data ONTAP 8.1 and later
- How to manually upload AutoSupport messages to NetApp in Data ONTAP 7G
- How to manually upload AutoSupport messages to NetApp in Data ONTAP 8.0 7-Mode
- How to manually upload AutoSupport messages to NetApp in Data ONTAP 8.1 and 8.2 7-Mode
- How to manually upload AutoSupport messages to NetApp in ONTAP 9
- How to map DS424x elements by error messages and SES codes to a physical location on the shelf
- How to map Management Information Base (MIB) name to Object IDentifier (OID)
- How to maximize storage efficiency post AFF ONTAP 9.x migration
- How to modify a CIFS SVM Machine Account name on the Domain Controller
- How to modify permissions on files and folders in clustered Data ONTAP when there is no permission to take ownership
- How to modify the FabricPool tiering threshold
- How to modify the home port and/or home node of an existing clustered ONTAP logical interface serving a SAN/ block protocol
- How to monitor Antivirus (Vscan) in Data ONTAP 7-Mode
- How to monitor NetApp storage systems using SNMP
- How to monitor the CN1610 Cluster Interconnect Switch using the Cluster Switch Health Monitor
- How to monitor the per-disk I/O in NetApp ONTAP
- How to mount an NFS export to a VMware ESX server which requires "root" mount permission
- How to move an existing FlexGroup volume to FabricPool
- How to move a CIFS server from one domain to another in clustered Data ONTAP
- How to move a disk from one RAID group to another RAID group
- How to move a home port and migrate a node management LIF to another port on the same node
- How to move a vfiler from one volume to another within the same filer?
- How to move Cluster LiFs from one port to another in ONTAP
- How to move files to a NetApp CIFS server using Robocopy to retain Windows ACLs
- How to move mroot to a new root aggregate in a single node cluster
- How to move or rename the root volume on a storage system
- How to Netboot clustered Data ONTAP 8.1x (and later)
- How to netboot Data ONTAP 8.0.1 and later using partner as the http server
- How to non-disruptively migrate a node's root aggregate onto new disks in Clustered Data ONTAP 8.2 and 8.3
- How to non-disruptively migrate a node's root aggregate onto new disks in ONTAP 9
- How to obtain AutoSupport (notifyd) logs in the Systemshell part of Data ONTAP 8.0 7-Mode
- How to obtain a packet trace file off a storage system when CIFS or NFS is not functioning properly for Data ONTAP 7-Mode
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- How to perform 64-bit aggregate conversion using CLI in Data ONTAP 7-Mode and clustered Data ONTAP
- How to perform a dump to null in ONTAP/Data ONTAP
- How to perform a giveback using Onboard Key Manager (OKM) and NetApp Volume Encryption (NVE) (ONTAP 9.5 & earlier)
- How to perform a giveback using Onboard Key Manager (OKM) and NetApp Volume Encryption (NVE) (ONTAP 9.6 & later)
- How to perform a SoftLayer / NetApp – Data ONTAP Edge Quick Install
- How to perform a system health check after a Data ONTAP upgrade or hardware replacement
- How to perform NFS Mounts with Windows hosts
- How to perform volume reallocation in Clustered Data ONTAP 8.3 and above
- How to perform volume reallocation in Data ONTAP operating in 7-Mode
- How to perform Windows authentication and Windows-to-UNIX usermapping
- How to power down and power up the controllers in a 7-Mode HA-Pair
- How to pre- and post-check drivers when swapping out drives
- How to preserve NFS file handles and volume MSIDs with SVM-DR (vserver disaster recovery)
- How to promote deprioritized constituent of a flex group
- How to promote deprioritized FlexVol volumes
- How to quickly set up NFS access for UNIX hosts to files contained in volumes in clustered Data ONTAP
- How to re-initialize / re-install / 4a Data ONTAP on a NetApp controller
- How to reclaim space for thin provisioned LUNs using PowerShell for Windows
- How to recover a deleted file from a snapshot using Network File System (NFS) or Common Internet File System protocol (CIFS)
- How to recover CIFS shares
- How to recover from multiple prefailed disks
- How to reduce the number of data disks in an Aggregate / Volume / RAID group
- How to relocate a NSE system to a new site (ONTAP 8.3 and prior)
- How to remove "Everyone" from the file level permissions at the top level of a volume
- How to remove and replace a data disk that is about to fail
- How to remove an LS mirror relationship
- How to remove a persistent Windows iSCSI target
- How to remove Onboard Key Management (OKM) in Data ONTAP 9.1 through 9.5
- How to remove or access a foreign aggregate (an aggregate made out of orphaned disks) in clustered Data ONTAP
- How to rename a cluster
- How to rename a FabricPool object-store?
- How to rename a FlexGroup volume?
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- How to rename a Vserver in clustered Data ONTAP
- How to rename CIFS server name or OU in Active Directory
- How to rename the hostname on a 7-mode filer without rebooting
- How to renew an SSL certificate in clustered Data ONTAP 8.1
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- How to renew an SSL certificate in Data ONTAP 7-Mode
- How to renew an SSL certificate in ONTAP 9
- How to replace a failed or broken Fibre Channel drive
- How to replace a software image in Data ONTAP 8.x Cluster mode
- How to replace Volume Snapshot policy?
- How to replace SSL certificates on cluster with external key manager configured
- How to report Ansible (na_ontap_command) issues
- How to report file sizes within a volume using the filestats command and how to use this information to determine the volume activity
- How to report OneCollect or Config Advisor issues
- How to report issues on ONTAP REST API and ONTAP REST API Python client library
- How to repurpose a Data ONTAP 8.1.x or later 7-Mode node to a clustered Data ONTAP 8.3 node
- How to repurpose physical storage
- How to rescan and recover LUN paths in a host after modifying SLM reporting nodes
- How to reset a NetApp Support Site Account password?
- How to reset NSE encryption drives back to the manufacturing defaults
- How to reset NTFS permissions on a CIFS share created on the root of the Volume or Qtree
- How to resize a flexible volume
- How to resolve "measured latency from cloud" alarms
- How to resolve fabric related connectivity issues
- How to restore deleted cluster jobs
- How to restore deleted files from a snapshot when using a Windows LUN in ONTAP
- How to restore files from a snapshot on ONTAP using the CIFS protocol
- How to restrict CIFS share access based on IP address/subnet/auth type
- How to restructure a second level VIF to provide more bandwidth for one leg using a single interface
- How to route SnapMirror traffic through a different gateway
- How to run ndmpcopy in Clustered Data ONTAP
- How to run pre-cutover tests again in 7MTT projects
- How to run sysconfig -a or sysconfig -r in clustered Data ONTAP 8.x, ONTAP 9
- How to sanitize a storage system at the end of a lease or demo
How to Sanitize Self-Encrypting Drive (SED) or FIPS NetApp Storage Encryption drives
- How to see vservers id-unsigned value
- How to send SNMP traps manually for test purpose on clustered Data ONTAP
- How to send SSH commands to the storage system without being prompted for a password
- How to setup and configure the Cluster Network Switch
- How to setup FCP in Data ONTAP 8.1 Cluster-Mode
- How to setup SSH public key authentication on Windows using PuTTY
- How to set Additional User Rights Assignments on a NetApp storage system using Active Directory
- How to set alerts for inode utilization in Unified Manager
- How to set configurations on AIX host for better performance of AIX iSCSI with ONTAP/Data ONTAP
- How to set NTFS or Storage Level Access Guard security using SDDL files and fsecurity apply for Data ONTAP 7-mode
- How to set ONTAP to use LDAP Signing or Sealing for CIFS/NFS
- How to set pre-boot environment variables for NetApp Storage Encryption using KMIP servers
- How to set the configurations on VIOS and VIOC for better performance of iSCSI with ONTAP/Data ONTAP to ensure the best performance
- How to set the correct SPN for a storage controller
- How to set up and configure LDAP for Clustered Data ONTAP 8.x
- How to set up and configure RBAC in ONTAP to limit administrator access to specific volumes or SVMs
- How to set up and troubleshoot Widelinks on a Netapp Storage Controller
- How to set up AutoSupport
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- How to set up CIFS auditing with clustered Data ONTAP
- How to set up CIFS to use Kerberos on clustered Data ONTAP and Data ONTAP GX
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- How to set up file level auditing for deleted files
- How to set up Kerberized NFS access for a UNIX client in an Active Directory KDC
- How to set up NTP time synchronization in Data ONTAP 7-Mode
- How to set up public key authentication Cluster-Mode Data OnTap (cDOT) for login without password through SSH
- How to set up Windows to UNIX user mapping over LDAP
- How to show consumed LUN space
- How to Show Throughput and Operations/s per File in ONTAP 9.x
- How to simultaneously shut down all the nodes in a cluster
- How to stop volume ‘s auto-snapshot
- How to suppress automatic case creation during scheduled maintenance windows
How to terminate CIFS in Data ONTAP 7-Mode for a particular volume or close a specified CIFS session in clustered Data ONTAP 8.3 without affecting other CIFS accessibility

- How to terminate unwanted CIFS sessions in clustered Data ONTAP for specific Windows users
- How to test port connectivity without the use of telnet
- How to track top CIFS and NFS clients in ONTAP 9
- How to transition 7-Mode NFSv3 exports to clustered Data ONTAP using NetApp XCP Migration Tool 1.0
- How to transition CIFS configurations when Active Directory Domain of CIFS server on 7-Mode and target SVM are different
- How to triage AutoSupport issues in ONTAP
- How to troubleshoot "SMB2 Session Setup Error No Trusted Logon Servers Available - STATUS_NO_LOGON_SERVERS"
- How to troubleshoot AutoSupport delivery when sent over HTTP or HTTPS
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- How to troubleshoot CIFS file access issues when Vscan is involved on Data ONTAP 7G
- How to troubleshoot CIFS in clustered Data ONTAP
- How to troubleshoot common HA issues in ONTAP
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- How to troubleshoot LDAP issues in Clustered Data ONTAP
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- How to troubleshoot Microsoft client authentication problems on a NetApp Storage Controller
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- How to troubleshoot Microsoft client permission issues on a NetApp Vserver running Clustered Data ONTAP
- How to troubleshoot NFS access to an NTFS security style volume/qtree in clustered ONTAP 8.2
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- How to troubleshoot NTP synchronization issues in Data ONTAP 8 and later releases
- How to troubleshoot ONTAP 9 EMS Event Routing to Email, SNMP, Syslog, or REST.API
- How to troubleshoot ownership update failure with chown command?
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How to troubleshoot slow access to files via CIFS/SMB protocol

How to troubleshoot slow browsing on CIFS Shares

How to troubleshoot SMB Signing on a NetApp Storage Controller

How to troubleshoot the EMS "csm.mismatchRemoteDevice" message in the event log

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How to turn off access to .snapshot directory from clients

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How to upload a Data ONTAP core file for analysis

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How to upload system file to software directory without Common Internet File System Protocol (CIFS) or Network File System (NFS)

How to use "DNS check" command to diagnose issues with Name servers

How to use a passwordless SSH to collect a Perfstat7 on a Linux/UNIX host (Data ONTAP 7-Mode)

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How to use df to calculate non-guaranteed space of thin provisioned volume

How to use Disk Sanitize to meet Department of Defense 5220.22M

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How to work with "NetApp Community" supported ONTAP features and tools
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HTTPs AutoSupport delivery fails with a PROXY
Failure Error message: ifconfig: cant assign address to interface, no vfiler in this interfaces ipspace (ipspace_name) has this address
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Infinite Volumes are no longer supported in 9.5 and above. What is the recommended configuration and migration path to replace the Infinite Volume?
Inode Cache - file operations suspend heavily on LOAD_INODE_NO_WIPS
Inode number keeps at 21251126, which doesn't increase to desired value after volume size expansion
Installation of Ontap NODAR (No Data At Rest Encryption) image fails
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Invalid version "0.0" is shown in ONTAP for Trend Micro SPNAF
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- Is BITS (Background Intelligent Transfer Service for ‘BranchCache’) supported?
- Is constrained delegation supported by Data ONTAP?
- Is FTP server supported on clustered Data ONTAP?
- Is it possible to avoid BUG 1310643 by closing the CIFS session or stopping the CIFS service?
- Is it possible to block administrative access to one single host in Data ONTAP 7Mode?
- Is it possible to change a configured CIFS server's NetBIOS name in clustered Data ONTAP?
- Is it possible to change the threshold for "wafl.vol.runningOutOfInodes" syslog/EMS event?
- Is it possible to hide or set restrictive permissions for the .copy_offload folder in clustered Data ONTAP 8.2.x?
- Is it possible to increase the maximum log size or the number of retained logs for secd.log?
- Is it possible to modify the event filter, "important-events"?
- Is it possible to specify the unit of quota report command output?
- Is it possible to tune the NetApp Volume Encryption conversion process?
- Is Local SyncMirror supported in Advanced Disk Partitioning (ADP)?
- Is moving an SVM root volume to another aggregate disruptive?
- Is ONTAP's Secure Multi-Tenancy (SMT) capability certified?
- Is quota setting included in system configuration backup?
- Is Single File Snap Restore supported for FlexGroup
- Is there any way to verify throughput of intercluster LIF on ONTAP 9.6?
- Is there a method to format the disk without cleaning ONTAP's configuration?
- Is there a way to export 7MTT projects from one workstation and import them on another so that someone else can initiate the cutover?
- Is there a way to restrict hostname that allows access to cluster management LIF?
- Is there no problem if inline deduplication is running while Single Instance Data Logging (SIDL) is on?
- Is the same option as "max-same-user-sessions-per-connection" in 7-mode?
- Is the Global throttling setting a dynamic?
- It fails to save Excel or Word files with access denied even though those type extensions are already on the white list in FPolicy policy
- It is possible to administratively shutdown port in OnCommand System Manager 8.3 and above?
- It takes longer to run a batch job when the client NFS mount option actimeo is set to 0
- Kerberos EMS error descriptions
- Kerberos setup for NFS failing with error "Strong authentication is required"
- LACP ifgrp Port Participation changes to "partial" after upgrade to ONTAP 9.3
- Latency detected for NAS due to issues in network devices (TCP bad checksum)
- LDAP Error: Strong authentication is required: Handling Signing and Sealing Requirements. Failures in Cifs Setup, User-mapping and Other Operations
LDAP servers secured with LDAP Signing and/or Sealing receive "secd.conn.auth.failure:notice" or "secdldap.noServers:EMERGENCY" errors for Data ONTAP 9

- Leftover SnapMirror Snapshot could not be deleted after a failed SnapMirror initialization
- License add fails with "invalid license key" and throws "MDB recovery unsuccessful" errors in AutoSupport
- Licensing information for NVMe protocol on ONTAP
- LIFs become unreachable when placed on their home node
- LIFs do not respond to pings
- LIF goes down during a takeover with error "extCache.rw.timeout:notice"
- LIF home port changed to IFGRP member port spontaneously after upgrading to ONTAP 9.5
- Limitations of computer account authentication using NTLM causes access to be denied when attempting to access files on a CIFS share
- Link aggregation and ifgrp troubleshooting
- Linux smbcient fails to download file with error "getattrib: NT_STATUS_NOT_SUPPORTED"
- Logging into Ontap is denied when using domain credentials via SSH
- Logging into the clustershell results in "Could not chdir to home directory /var/home/admin"
- Login fails when connecting to a clustered ONTAP system using an ONTAPI or ZAPI based application such as OnCommand System Manager
- Login to systemshell of remote node fails
- Long CPs dominated by P2_FLUSH during SnapMirror Finalizing phase
- Long response times for volumes on SATA or SAS aggregate when workload increases (Performance Capacity beyond critical threshold)
- Limited access to shares from one node
- Low memory state due to SLC holding extents
- LUN not visible on few ESXi hosts in a cluster, when lun IDs are greater than 255
- Maintenance Center Frequently Asked Questions
- Maximum inodes shows less than expected value, when "maxfiles" command is used
- Max number of snapshots
- MCC-IP Nodes Not Automatically Halting in Switchover
- Member port of an LACP IFGRP is marked as down due to LACP key value mismatch between ports of the same IFGRP
- Messages: scsitarget.fcp.dump.warning
- MetroCluster high disk utilization at a specific time of day
- MGWD panics and restarts on a regular basis; cluster node may panic regularly
- Microsoft Excel files locked for editing on Windows
- Microsoft Security Advisory: ADV190023 impact on NetApp appliance running CIFS\NFS utilizing Microsoft Active Directory LDAP servers
- Microsoft Security Advisory: CVE-2020-0796 SMB 3.1.1 Vulnerability, Is ONTAP vulnerable?
- Microsoft Security Advisory: CVE-2020-1206 SMB 3.1.1 Vulnerability, Is ONTAP vulnerable?
Mismatch in definitions listed in the /etc/hosts and /etc/rc files

- MMC shows error: You do not have permissions to see the list of shares for Windows client
- Mounting a volume using CIFS on a Unix client via NTLMv2 fails with the error code: -13
- Move volume follows the error: Cannot perform efficiency operations on deprioritized volume
- Move volume follows the error: Preparing source volume for cutover: Deduplication is not ready for volmove cutover
- Moving a volume in ONTAP fails to complete
- Multiple client IP address causes access denied at the export policy for ONTAP 9
- Multiple new iSCSI sessions are seen with the same IQN but different initiator IPs
- Multiple SECD Panic events related to lookup of user from an unsupported Single Label Domain
- Name services fail due to multiple default gateways with the same metric
- NAS service outage due to exhaustion of lock manager objects
- Native FPolicy is not consistently stopping blocked file extensions in clustered Data ONTAP
- Nblade.CifsOperationTimedOut: Detected a timed out CIFS operation
- Nblade.CifsOperationTimedOut with Last SpinNp error during this operation: SPINNP_ERR_DELAY due to disconnected FPolicy server
- Nblade.vldb.LeakedBladeList:alert EMS Seen with Possible NFS Impact
- NDMP Dump Backup Using Tree Walk
- NetApp adds new MAC address OUI range to shipping systems
- NetApp does not receive AutoSupport messages sent through HTTPS with certificate validation enabled
- Netapp Volume Encryption (NVE) considerations with SnapMirror relationships and Snaplock volumes
- Netboot
- Netbooting a FAS and AFF Controller in ONTAP 9
- Network File System (NFS) mount troubleshooting FAQs
- Network File System v4 mounts show file owners as root or nobody or nfsnobody when mounted on a Linux client
- Network interfaces not reachable for several minutes after storage failover
- Network port in degraded state due to l2_reachability
- Network traffic not sent or sent out of an unexpected interface after upgrade to 9.2 due to elimination of IP Fastpath
- Network traffic not sent or sent out of an unexpected interface after upgrade to 9.2 or later using routing groups
- Newly-created/empty volume shows large used space on NFS client df output
- New CIFS Share is not working due to permissions set to Generic-All for Everyone
- NFS: nfs4_reclaim_open_state: Lock reclaim failed!
- NFSv4.1 client Read/Write operation may hang when pNFS is enabled on the SVM
- NFSv4.1 pNFS jobs cause a halt on RHEL 7.0 and above
- NFSv4.x client shows user and group as 'nobody'
- NFSv4 is not working on RHEL client and returns "access denied"
- NFSv4 operations hang when non-existent name-services are specified in NS-switch
- NFSv4 owner sequence ID is not properly compared
- NFS clients experience disconnections, time-outs, or performance issues due to client tuning parameters
- NFS client error message: NFS write failed for server (RPC: Timed out)
- NFS client trying to mount with root on a non-reserved port and gets "access denied"
- NFS mounts are intermittently unavailable
- NFS mount fails due to firewall maintenance
- NFS mount fails due to implicit name mapping failure in multiprotocol environment
- NFS mount fails with client side error "mount.nfs: Connection timed out"
- NFS mount hangs and can only be fixed by rebooting the client
- NFS performance: How to track down a bad UNIX or Linux host
- NFS performance is limited without CPU/Memory/Disk bottleneck on clustered Data ONTAP 8.x system
- NFS permission denied when using netgroups in /etc/exports file
- NFS Server server-name not responding, still trying
- NFS service might not start after a motherboard replacement when the system clock is incorrect
- NFS UDP traffic intermittently drops after ONTAP 9.3 upgrade
- NFS users have permission issues when they belong to more than 16 groups
- NFS user gets a "permission denied" error when accessing an NTFS qtree
- NIS server timeout can potentially cause CIFS outage
- Nodes in a HA configuration are not set with matching options
- Node disruption due to the monitoring of NFS calls utilizing Kerberos authentication mechanism via fpolicy
- Node not sending ASUPs after upgrade to Clustered Data ONTAP 9.3
- Node stuck in 'Waiting for cluster applications to come online' state
- Non Windows SMB clients (Printer/Scanner) failed to connect to ONTAP CIFS shares
- Not able to mount CIFS share using SMB2 on RHEL 7 with Error "Operation not supported"
- Not all routes listed in "route show" for ONTAP 9.7
- Not receiving ONTAP AutoSupport e-mails due to relaying issues on mailhost
- No Spare Low warning generated for hybrid aggregate
- NSE: How can I renew expired NSE certificates connected to TKLM or SKLM key servers?
- NSE: How to check the expiration date on NSE certificates
- NSE: How to convert an external key management (KMIP) server to Onboard Key Manager (OKM) in ONTAP 9.1 or later
- NSE: How to enable drive authentication on a NSE spare drive replacement
- NSE: How to unconfigure the external key management before upgrading to Data ONTAP 9.3 or later
- NSE FIPS drive revert fails due to incorrect physical secure ID (PSID)
NTFS file system inconsistency on LUN
- NVE - Can existing volume be encrypted?
- NVE conversion process appears to be slow or stuck in Phase 2
- object.store.unavailable: Unable to connect to the object store
- Object store attachment fails when DPO license is installed
- ODX (Offloaded Data Transfer) nonfunctional though requirements met
- OEM: Troubleshooting Workflow: Node is out of CLAM quorum
- OEM: Why did AutoSupport not create a case for my NetApp node?
- Offbox-AV scanners reports error "vscanBadUserPrivAccess" while accessing target files
- ONTAP: node down / hung
- ONTAP: Unable to upload a new image
- ONTAPI access via https may fail with EOF (end-of-file)
- ONTAP 9.3 upgrade to 9.4, 9.5 or 9.6 panics during giveback operation
- ONTAP 9: How to create a Sync core in a ONTAP system
- ONTAP 9 Upgrade Guide introduces 2 different image upgrade commands, both need to be executed?
- ONTAP Aggregate creation fails with error "Failed to create aggregate Reason: ZSM - failed, status code = 571"
- Ontap Aggregate relocation fails due to locks still being in place after overriding vetoes
- ONTAP API error: "Could not create path, error = System.IO.IOException: The system cannot open the file."
- ONTAP Automated Non-Distruptive Upgrade (ANDU) shows "Error: Update image not yet available"
- ONTAP AV Connector fails to connect to data interface on vserver
- ONTAP create Single Instance Storage (SIS) clone fails and reverts to using Block Copy Engine (BCE)
- Ontap Error: command failed: Failed to create CIFS server XXXXXX. Reason: Kerberos Error: KDC Unreachable
- ONTAP FabricPool (FP) Licensing Overview
- ONTAP FlexArray Multi Disk Panic: fatal disk error in RAID group with no parity disk
- Ontap Fractional reserve is being allocated even though no snapshots exist
- ONTAP initiator port shows "question mark" (?) for the switch port when Emulex XE201 adapter is used
- ONTAP is mapping Windows users to pcuser instead of the appropriate UNIX user
- ONTAP is unable to apply file ownership to a file if that user is from a trusted domain over a one-way trust
- ONTAP is unable to map a unix user to a Windows user from a trusted domain over a one-way trust
- ONTAP logs show secd.ldap.noServers messages but everything still seems to be working
- ONTAP LUN offline due to lack of space in the volume
- ONTAP NFS netgroup name missing "@" character in export policy rules causes NFS mount hang or permission denied
- ONTAP NFS unable to rename or delete file with 0x80 in filename originating from a non UTF-8 source
- ONTAP panics with error: RPANIC:CPLEDGER_CHECK_RSRV_HOLES failed at CP
ONTAP repeatedly reports "logging cpeer.addr.warn.host" EMS messages
- ONTAP reports an inconsistency on a Snapshot ID but the Snapshot does not exist
- ONTAP responds with a TCP ACK when a client sends a SYN, and connection never gets established
- ONTAP REST API returns wrong spare count
- ONTAP SAN with Commvault will not accept new FAS WWNN WWPN
- ONTAP upgrade fails - "aes128-gcm" and "aes256-gcm" are not supported when SSL FIPS mode is enabled
- ONTAP upgrade fails with the following message: The upgrade aborted in the "post-apps" phase on task "Upgrade/revert task for Nkek"
- ONTAP upgrade from 9.4x to 9.5x fails at the "Ciphers Upgrade Task"
- ONTAP upgrade image download fails "Failed to add the software image to the cluster"
- ONTAP Vscan Troubleshooting Antivirus Connector
- ONTAP/Data ONTAP Log Overview
- Opening files in ONTAP CIFS shares takes longer when Qtree oplock is disabled
- Oracle Database performance latency following a Storage headswap or ONTAP upgrade
- Oracle Host reports "Bad file descriptor error" while running "file" command on SMB share using port 139
- Output for "network connections active show" has been truncated to 1000 entries per LIF
- Overview of wafliron
- Owner on newly created files/folders under CIFS share defaults to BUILTIN\Administrators
- Package "MT_EK_MGMT" is not licensed in the cluster
- Palo Alto firewall preventing CIFS client from opening file
- ONTAP Node fails and won't start with error on boot: "PANIC: Process vifmgr unresponsive for xxx seconds in process nodewatchdog on release 9.1P12"
- ONTAP panic due to a NFSv3 filehandle that contains an invalid Snapshot ID
- Panic occurs by Node watchdog for MGWD process
- ONTAP loop in panic: Panic String: prod/common/wafl/filehandle.c:303: Assertion failure. in SK process wafl_exempt02 on release 9.5P7 (C)
- Panic string: raid volfsm: vol volume_name fatal multi-disk error. in process config_thread on release NetApp Release 7.x.x
- Path will disconnect and reconnect when an iSCSI LIF is renamed
- Performance Archives: Performance first failure data collection for Clustered Data ONTAP 8.3 and later
- Performance impact when using CIFS Access Based Enumeration
- Performance issues on ethernet networks when the e0m management interface is on the same subnet as production traffic
- Performance Troubleshooting in Data ONTAP 7-Mode systems
- Periodic secd.ldap.noServers error messages in EMS after modifying "cifs security"
- PERMISSION DENIED error message on NFS mounted VOL with security style UNIX fails when using CHOWN/CHMOD
Permission denied when mounting file system with NFS v4
- Permission denied when mounting from containers for ONTAP 9
- Permission denied while moving files between qtrees when NFS option `-validate-qtree-export` is enabled
- Ports can not be added to a ifgrp
- Port Troubleshooting
- Possible system disruption due to NetBIOS Name Service (NBNS) on cluster
- Previous versions are unavailable after upgrade from Clustered Data ONTAP 8 to ONTAP 9
- Problem after cluster unjoin Job failed: This operation deletes all failover targets from the failover group that is in use by a lif
- QoS op count limits appear to be breached and not limited as configured: Discrepancy between volume layer and network layer op counts
- Qualys vulnerability SSH Server Public Key Too Small
- RAID-TEC aggregate is not fully supported
- Reducing FlexGroup size
- Remote OPS observed on LUNs when using Oracle ASM
- Repeated cf.hwassist errors
- Data ONTAP 8: After replacing a failed disk with a new disk, which shows the LED as either green or red, sysconfig -r output shows the drive as broken
- Request to grow FlexGroup volume in ONTAP fails as the resulting volume size is greater than maximum size
- REST API: Unable to configure SnapMirror with policy type async_mirror in ONTAP 9.6
- RIAT by HDS application from Cumulus Systems unable to authenticate with password length greater than 16 characters
- Robocopy writes files to snapshot directory instead of CIFS share gets "Access Denied"
- Root aggregate is reporting 95% utilization
- Root Password Reset Procedure on both nodes of ONTAP 7Mode HA pair
- Root unable to cd or ls in NFS mount
- Route problem when adding a new interface
- "RPC cannot connect to port mapper. Connection refused" when performing a Mount operation
- RWX Mode bits overwrite NFSv4 ACL inheritance
- Samba client cannot access CIFS shares
- SAN host does not failover I/O to alternate paths when one or more paths are removed and an RSCN is not received
- SAS cabling issue: Both SAS connections from one controller go to the same shelf
- secd.conn.auth.failure messages: Error: Invalid Credentials
- SECD.netlogon.noservers error messages
- SECD encounters a panic when using Secure LDAP (LDAPS)
- Security Daemon (SecD) fails to find local unix user by UID and name
ServerProtect for NetApp occasionally fails to authenticate due to "Reserving a new NetLogon server from discovery"

- Service Processor status not visible on command line after upgrade
- Shadowcopy failure with Disc quota exceeded for VM backup
- Shared Storage pool is unhealthy
- Shelf Limitation in SAS Stacks
- Should cluster peer settings be modified after Intercluster LIF IP change?
- Single mode Ifgrp port becomes unresponsive after active member port gets down/up
- SIS Clone operation failed to start with error Max Dense Limit is reached
- Slower than expected transfer speeds over CIFS with high latency on high-bandwidth networks for ONTAP 9
- Slow performance with vsan, due to overloaded AV Scanners
- Slow tiering during high workload
- Slow volume move in Cloud volume ONTAP
- SMB1 detected as enabled on Data ONTAP 7-Mode controller where SMB1 has been disabled
- Smbclient connection fails with "NT_STATUS_INVALID_NETWORK_RESPONSE"
- SMB Access is Allowed When Access is Denied by Export-Policy
- SMB and other services hung from Windows Server after ONTAP upgrade to 9.6 or 9.7
- SnapLock feature in ONTAP 9
- SnapMirror resync fails with error "Reason: Failed to set exported Snapshot copy ... (The snapshot name does not exist)..."
- Snapshots don't get deleted as per the snapshot retention policy
- Snapshots size show 0KB in the command line and System Manager
- Snapshot copies are not taken per schedule for any volumes on a cluster node
- Snapshot naming enhancements in ONTAP 9.0
- Snapshot show failure on SnapMirror source or Destination
- SNMP Get value for OID enterprises.789.1.21.1.2.1.3.1 (enclChannelShelfAddr) is returned as 0x.<ShelfID>
- Space is not freed in ONTAP
- Space Usage
- Spare drives missing in ONTAP 9
- Speed/duplex mismatch on 1GB Ethernet interface or Interface Group (ifgrp)
- SQL backup fails with error "Not enough storage is available to process this command"
- SQL Server error: Cannot bulk load - Operating system error code 5 (Access is denied)
- SSH Domain authentication fails with no lookup record in SECD logs
- Clients fail to SSH to Vserver with error "Connection closed by remote host"
- SSH fingerprints change every time a LIF is migrated to other nodes in the cluster

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SSH fingerprint mismatch if cluster mgmt LIF migrates
- Staging volume full for onbox CIFS auditing in ONTAP
- StorageX migration floods secd
- Storage auto-reclamation does not occur
- Storage cutover time considerations for Copy-Free Transition
- Storage device has entered a permanent device loss (PDL) state
- Storage shelf show command doesn't show the information of added disk shelves
- Strategies on how to undo an accidental move of a folder or file from ONTAP using CIFS\SMB or NFS
- Unable to use an IP address from a subnet - Subnet does not have address available
- SnapMirror for Storage Virtual Machine-Disaster Recovery (SVM-DR) does not replicate Data Protection (DP) volumes from the source to the SVM-DR
- SVM-DR - EMS Reports None of the LSA servers configured for Vserver (svm_dr) are currently accessible via the network
- SVM-DR initialization fails with error "not supported because the effective cluster version is not Data ONTAP 8.3.1"
- False time skew errors observed between SVM and DC "Cluster and Domain Controller times differ by more than the configured clock skew (KRB5KRBER_ERR_SKEW)"
- SVM doesn't start when "Activate Destination SVM" on OCSM is executed
- SVM fails to connect to DC when SMB3 Encryption is enabled on DC
- SVM is unable to join Windows 2012 domain using LDAPS (Unable to start TLS)
- SwitchIfIslDownWarn_Alert alert from Link Aggregate XX
- SyncMirror Plex Failed - AutoSupport message
- SYNCMIRROR SNAPSHOTS NOT ROTATING with FlashPool aggregates having less than 1 percent SSD space
- sysconfig -r shows spare disk in Awaiting savecore state
- SYSTEM CONFIGURATION WARNING reported by the storage system
- System health cluster-switch show lists old firmware or incorrect firmware
- System install failed with "Auto-partitioning is disabled on this system: the system needs a minimum of 8 internal hard disks"
- System Manager Cluster Guided Setup Templates
- System Panic due to large_mbuf_flowcontrol
- System reports "smc.snapmir.frest.clean.fail" error message
- Takeover is not possible: Local node missing partner disks
- TCP reassembly queue overflows lead to poor performance and possible application disruption in versions of ONTAP 9.3, 9.4 and 9.5
- TCP Reassembly Queue Overflows Lead to Poor Performance and Possible Application Disruption on 8.2.5P2 7-mode or ONTAP 9.1P16
- TCP Window Size in Clustered Data Ontap
- There are different types of Fibre Channel ports, what are they and what type of port does the NetApp filer
The "storage show disk" command displays owner as 4294967295 instead of the storage system sysid
The "system cluster-switch show" command output takes more time
The "system health alert show" command in ONTAP returns several errors stating "RPC: Remote system error - Connection refused."
The 'event log show' command displays only 3 days or 2048 events
The 'sanlun lun' command returns 'segmentation fault' error
The disk sanitization feature is not enabled in clustered Data ONTAP
The etc/messages file is empty
The LUN offline due to the fractional reserve 100% setup
The nodeshell command "aggr show_space" is not available
The nodeshell option snapmirror.enable has no effect in clustered Data ONTAP
The number of files-used in quota report is larger than file count reported by Windows Explorer
The output of snap list reports 0 percent used space while the command snap status reports non-zero used space
The quota rule can't associate with the user account
The recommended value for vsscan options timeout for Data ONTAP 7-Mode
The SAN boot OS reboots abnormally on the storage LUNs
The snapmirror status is pending after deleting the old non-base snapshots
The SP continues to boot into the backup firmware image after an upgrade to SP firmware 5.1
The volume show command displays no value for tiering-minimum-cooling-days
The /etc/crash/ directory reaches the maxdirsize limit
This version of Data ONTAP does not recognize the filesystem of the root aggregate
TLS connections fail to new nodes added to the cluster
Top ESXi known issues/workarounds/best practices for NFSv4.1
Top RHEL Issues/Workarounds/Best Practices for NFSv3/v4.0
Top UNIX (Solaris/AIX/HP-UX) Issues/Workarounds/Best Practices for NFS v3/v4.0
Top Windows NFSv3.0 Issues, Workarounds and Best Practices
Traversing a large sparse directory is extremely slow with long running READDIR requests
Trouble-shooting EMS event "Unable to Acquire Filer Credentials"
Troubleshooting Access Denied or Mount Hung from NFS client for clustered Data ONTAP 8.3.1 and later
Troubleshooting CIFS Latency - Single volume readdir workloads with high latency
Troubleshooting CIFS or SMB access denied
Troubleshooting EMS messages for wafl.readdir.expired
Troubleshooting Ethernet Network Ports in ONTAP using ifstat
Troubleshooting HA state issues on FAS and AFF platforms
Troubleshooting LS mirror update failures
Troubleshooting performance issues without a Perfstat

Troubleshooting Workflow: AutoSupport failed to deliver

Troubleshooting Workflow: CIFS: Device attached to the system is not functioning

Troubleshooting Workflow: CIFS Authentication failures

Troubleshooting Workflow: cluster join failure

Troubleshooting Workflow: Cluster Peer unable to create peer relationship

Troubleshooting Workflow: DC not responding (CIFS)

Troubleshooting Workflow: LUN offline/out of space

Troubleshooting Workflow: MHost RDB apps out of quorum

Troubleshooting Workflow: NDMP backup performance

Troubleshooting Workflow: Node is out of CLAM quorum for clusters running Data ONTAP 8.3 and later

Troubleshooting Workflow: No locks available/Lock Reclaim not working

Troubleshooting Workflow: permission denied (export rules) mounting the export

Troubleshooting Workflow: SnapMirror Create Fails

Troubleshooting Workflow: Stale file handle error (NFSv3 and NFSV4)

Troubleshooting Workflow: Takeover not possible

Troubleshooting Workflow: vol move command failure

UDP traffic intermittently drops after upgrading to 9.2+

Unable to access cifs shares with FQDN, error "access is denied" although its accessible via ip

Unable to access CIFS share when MDV volume is full, although destination volume has sufficient space

Unable to access CIFS via DNS Alias

Unable to access files when AV server is unable to process scan requests

Unable to access folder with permission error when Share lock exists

Unable to access NFSv4 files due to storepool exhaustion

Unable to access shares using SMB1

Unable to add a system to the 7-Mode Transition Tool due to error: Failed to communicate with the host using TLS or SSL protocols

Unable to add domain user to local group

Unable to add port to broadcast domain. Error : entry doesn't exist

Unable to boot ontap, "WARNING: Neither label appeared to be valid, the labels may be corrupt."

Unable to change the raidtype on hybrid aggregate

Unable to communicate with external capacity tier: Reason: Capacity tier is unreachable for ONTAP 9

Unable to complete Ontap aggregate relocation due to locks

Unable to connect to CIFS Shares and get error "Nblade.cifsMemExceeded" in ONTAP

Unable to connect to CIFS shares from Windows 8 or Windows Server 2012

Vserver fails to connect Domain Controller:
RESULT_ERROR_SPINCLIENT_UNABLE_TO_RESOLVE_SERVER
Unable to convert Flexvol volume to Flexgroup
Unable to create a machine account in Active Directory. When creating SMB2 CIFS Server in ONTAP
Unable to create QTREE on FlexCache volume running 9.7
Unable to delete an interface group
Unable to delete a move generated volume when no volumes appear to be moving
Unable to delete a project from 7-Mode Transition Tool (7MTT)
Unable to delete clone snapshots and the snapshots are filling volume space in clustered Data ONTAP 8.2.1
Unable to delete folder, and I am not getting any error messages
Unable to delete or copy some files/folders from Windows Explorer on a CIFS share
Unable to delete or rename a file name containing metadata or odd characters in ONTAP
Unable to delete or rename files or folders
Unable to delete Snapshots, it shows "busy, vclone state"
Unable to delete Storage Virtual Machine/Vserver from OnCommand System Manager WebUI. Error: API failed, RPC Server remove failed
Unable to delete thumbs.db file
Unable to install CA certificate. ERROR "The common name(CN) extracted from the certificate is invalid"
Unable to join the system to a domain during the cifs setup
Unable to monitor LUNs or other logical storage objects using ONTAP SNMP queries
Unable to mount Autosf NFS exports after ONTAP upgrade
Unable to mount volume using CIFS on Linux client and fails with Error "Host is Down"
Unable to move volume: Sender data operation error (Volume out of space)
Unable to reclaim the space freed by files that have been deleted
Unable to remove invalid account SIDs from the Local Administrators Group of the vfiler
Unable to remove junction path of a nested volume after SnapMirror migration
Unable to remove KMIP configuration: "Cannot remove key management servers that still contain one or more NSE authentication keys"
Unable to set sticky bit when SUID isn't set to true in ONTAP
Unable to set up native file blocking to only allow certain files to be written
Unable to unjoin a node while performing a Controller HW Upgrade
Unable to update Service Processor: SP is not Cluster Service capable
Unable to view CIFS 8.3 shortnames in clustered Data ONTAP
Unable to view the Security tab on a Windows client for an SMB/CIFS share
Unable to write to a Symlink CIFS volume due to "not enough space" error.
Unable to delete Storage Virtual Machine DR aggregate
Understanding name-mapping in a multiprotocol environment
Unix clients are unable to write files to an NFS share with NFSv3
UNIX file copy to share creates an empty file with size 0k and reports error: Operation not permitted
- Unix Host Access Denied error when mounting export from Vfiler using local Netgroups
- Unjoining a node in a 4-node cluster fails after physical removal or accidental wipeout of an HA pair
- Unsupported configurations for FlexGroup volumes
- Update to 9.7 failing via System Manager and via command line
- Upgrade to clustered Data ONTAP 8.3 fails on new setup
- Upgrading ONTAP fails with the error, "Upgrading the nodes will lead to more than two versions of Data ONTAP in the cluster during or after upgrade"
- Uploading a local ONTAP image to ONTAP System Manager fails mentioning multipart/form-data
- Users receive access denied when accessing files on CIFS share
- Users with Non-admin/very low Privilege can see "Time daemon is not enabled or the controller time settings are not in sync" though it is enabled on the node
- User not able to open Excel file with error Access Denied when vscan is enabled
- User Quota report calculation is not matched with du output in the Linux client
- User sends reset packet after Negotiate Protocol Request from the storage system
- Using file-directory commands to apply an auditing SACL to a CIFS server
- Using License Keys with Data ONTAP 8.1 7-Mode
- Varonis FPolicy disconnecting repeatedly
- Varonis FPolicy is enabling automatically despite issuing ‘vserver fpolicy disable’ from ONTAP
- VEEAM backups fail with generally poor system performance during and after VEEAM rescans
- vifmgr.cluscheck.crcerrors vifmgr reports high number of observed hardware errors
- Virtual Port-Channel (vPC) on Cisco switch down cause ONTAP sends different oper keys for member ports
- Virtual Storage Console (VSC) discovery task stuck in Queued status in vCenter
- VMs on FC datastore with continuous disconnections and slow response on single node, with "fcp.io.status: AEN 0x8048 (RECV_ERROR)" messages in event logs
- VMWare NFSv4.1 datastores see disruption during failover events for ONTAP 9
- Volumes were found that must be changed to online state before attempting NDU
- Volume autogrow (autosize) feature does not trigger at expected threshold
- Volume creation failed with "Operation is disallowed" error
- Volume creation fails mentioning "effective cluster version"
- Volume Efficiency (deduplication) not completing for auto efficiency policy when changelog usage is over 20 percent
- Volume efficiency operations do not complete and show the error "Metafile does not exist"
- Volume efficiency policy cannot be modified and volume cannot be promoted
- Volume efficiency undo not supported on FlexGroups
- Volume Encryption Conversion fails "Reason: Node failed to allocate encryption resources. Please retry later or reboot the node"
- NVE conversion does not complete on a DP volume
Volume move failed with error: Volume is not quiesced
Volume Snapshot auto delete
MDV_CRS Volume created by SVM_DR is highly utilized with snapmirror transfer error
Volume type displays as TMP in clustered Data ONTAP after using the 7MTT tool
vol offline fails with error of Volume on Vserver must be unmounted before being taken offline or restricted
vsan connection-status is not-connected, because data protocol cifs is not configured on the lif
Vscan displays invalid user for disconnection reason after changing privileged user
Vscan engine connects only to one node, other nodes fail with 'remote-closed'
VSCAN events are not logged in vscan event logs under some scenarios
VSCAN fails to scan files on a share with continuously-availability enabled
VSCAN intermittently disconnects not scanning files (Nblade.vscanConnBackPressure: error)
Vscan scan timeouts lead to access issues in certain scenarios
Vscan servers showing as 'disconnected' along with 'Nblade.noSmbVerNegotiated' in EMS
Vscan server disconnected and no disconnect reason mentioned even though Vscan configured correctly
Vscan unable to communicate with AV server, Error 401: Unauthorized
vserver throws RPC "AUTH ERROR 5" on Oracle server
Vserver unlock failing with error: "Vserver configuration is locked by internal applications"
Vulnerability Scanner indicates ONTAP as an unsupported FreeBSD version
Vulnerability Scanner indicates ONTAP NFS exports are insecurely set to allow Everyone access
WAFL is running low on memory due to unsupported 2nd flash cache card on FAS3240
WAFL metadata inconsistent due to disk errors after "vol move" or "snapmirror update" after upgrade to ONTAP 9
EMS log reports the event "wafl_spcd_main: monitor.volumes.one.ok: debug"
WAFL very low memory
Web (HTTP) services may be inaccessible on cluster nodes downgraded or reverted from ONTAP 9.4x to 9.3x
Weekly AutoSupport messages not received in Data ONTAP 8.0
What's the command to check total_ops per LIF?
What AIX command can be used to list the Fiber channel devices?
What are "HTTP PUT" response codes?
What are Common Performance Terms for Data ONTAP?
What are Data ONTAP 8.2 and 8.3 licensing overview and references?
What are junction paths?
What are native and mixed modes, and how do I tell what mode is operating on the client?
What are Other IOPS?
What are SCSI Reservations and SCSI Persistent Reservations?
What are some of the Data ONTAP upgrade considerations for storage systems containing 32-bit data?
What are stateid, in-use owners, free owners, client count, and lease count in NFSv4 implementation of NetApp shared storage?

What are the best practices for adding disks to an existing aggregate or traditional volume?

What are the best practices of shelf numbering for attaching SAS shelves to a storage system?

What are the CIFS statistics to be collected for individual user sessions?

What are the CIFS values to mitigate client malfunction?

What are the common causes of CIFS SETUP failures?

What are the common causes of High Availability "Takeover Impossible" events?

What are the Data ONTAP limitations on files, directories, and subdirectories?

What are the deduplication maximum volume sizes and total data limits for Data ONTAP 8.0.1?

What are the default Cluster Network ports for each platform?

What are the details of Network File System (NFS) Lock Recovery and Network Status Monitor?

What are the differences between hard mount and soft mount

What are the different phases of deduplication?

What are the document references for 7MTT (7-Mode Transition Tool)?

What are the document references for SNMP articles?

What are the effects of file locking?

What are the effects of options ip.ping_throttle.drop_level 0 on system environment?

What are the file naming conventions for Network File System(NFS) and SMB/CIFS and maximum length of file names?

What are the flow control best practices for 10g Ethernet?

What are the guidelines to be followed while shrinking LUNs?

What are the implications of renaming an SVM in clustered Data ONTAP?

What are the important changes to RAID scrub in Data ONTAP 8.3.x?

What are the Licensing details for NetApp Volume Encryption (NVE)?

What are the mount options for databases on NetApp NFS?

What are the mount options for IBM DB2 on NetApp NFS?

What are the mount options for SAP MaxDB on NetApp NFS?

What are the mount options for Sybase on NetApp NFS?

What are the ONTAP quorum considerations for two node clusters?

What are the operations that are recognized as "other"

What are the parameters that control how MS iSCSI survives lost TCP connections without causing applications harm?

What are the recommendations for the host stacks supporting SCSI UNMAP (TRIM) commands?

What are the repercussions of a full aggregate?

What are the requirements for NetApp ONTAP FC-NVMe deployment with ESXi 7.0?

What are the rules for Advanced Disk Partitioning?
What are the SNMP trap categories?

What are the software licensing and packaging requirements in Data ONTAP 8.2 and 8.3?

What are the statistics used to measure indirect data access to LUNs in clustered Data ONTAP 8.x and ONTAP 9?

What are the steps followed to configure advanced drive partitioning in a ONTAP boot menu option 9?

What are the top Citrix XenServer Issues/Workarounds/Best Practices for NFSv3?

What causes ESX VMFS to "disappear"?

What computer account name will be created on AD when initiating "kerberos interface enable" command?

What could cause an Ontap volume's security style to revert?

What does "volume mount" mean?

What does error ‘Nblade.invTcpRecordMarker’ mean?

What does ignore inconsistent set to ON mean?

What does link-monitoring logic failed mean?

What does partial giveback mean in Clustered Data ONTAP?

What does the aggregate status parity uninit'd mean?

What does the hotspot value indicates in reallocate measure?

What does the LUN option space_alloc do?

What does the revision number of a LUN provided by Data ONTAP signify?

What does this ONTAP EMS message mean? Nblade.cifsNonAesNiBytesProc:alert

What does vticadapt_out_of_resources mean?

What do FCP Partner Path Misconfigured messages mean?

What happens to information stored in OKM in case of disaster

What happens when a disk fails and does not have a hot spare installed?

What impact does a timezone change have?

What is "core.saving.nz"?

What is "Performance Metadata" shown in the "volume show-space" output?

What is an aggregate?

What is an inode?

What is an Intercluster network?

What is an over-committed aggregate?

What is an unaligned I/O?

What is AutoSupport On-Demand and why should it be enabled?

What is Auto Balance Aggregate?

What is a Hybrid aggregate?

What is a LIF?

What is a MailBox disk?
What is a staging volume and how to use it to troubleshoot issues?

What is a Super Logical Unit Reset (SLUR) and how to recover from a hung condition?

What is Cluster HA and how is Epsilon utilized to maintain RDB Quorum?

What is CPU utilization in Data ONTAP: Scheduling and Monitoring?

What is database logging due to misaligned I/O?

What is Domain Controller Discovery?

What is EMS and what is the difference between the messages in /etc/messages and /etc/log/ems files?

What is Filer NIS slave on Data ONTAP?

What is high_security.enable in 7-Mode?

What is maxdirsize?

What is Performance?

What is SNMP and how can it be used to get the information from clustered Data ONTAP systems?

What is temporary volume type TMP in ONTAP?

What is the 'L2 Terminate' ifstat counter?

What is the autosupport.support.proxy option?

What is the base for ONTAP's SMB server?

What is the Certificate Truststore in ONTAP?

What is the clustered Data ONTAP comparable setting to the 7G hidden option "cifs.ntfs_ignore_unix_security"

What is the command and syntax to revert a LIF to its home node and port in clustered Data ONTAP?

What is the default, minimum, maximum, and recommended value for cifs.tcp_window_size in Data ONTAP 7-Mode?

What is the default negotiated SMB version with various versions of Data ONTAP and Windows clients?

What is the difference between hard zoning and soft zoning

What is the difference between the deprecated options command cifs.restrict_anonymous.enable and cifs.restrict_anonymous?

What is the Directory Indexing Scanner and what does directory indexing accomplish?

What is the explanation of the cifs.restrict_anonymous option and its effects on null user access?

What is the filer's default CIFS TCP window size?

What is the impact of an expired digital certificate used for a Vserver?

What is the impact of a shares symlink settings and DFS advertisement in clustered Data ONTAP on SMB2.x/3 client traffic

What is the LIF Choice order for Cluster Aware backups in NDMP?

What is the lock manager protocol?

What is the maximum file size supported?

What is the maximum Kerberos token size (MaxTokenSize) that ONTAP can process?

What is the Maximum Outstanding Requests for FPolicy Server parameter
What is the maximum volume size supported on any Data ONTAP release?

◦ What is the meaning of "On-Demand scan failed to set the scan status for the file. Reason: Stale NFS file handle"?

◦ What is the meaning of Vers in ONTAP from command: system node upgrade-revert show-task-status

◦ What is the method to clear or kill a hung rsh or ssh process?

◦ What is the Nblade Credential Cache?

◦ What is the NFSv3 mount "noac" option?

◦ What is the order of commands in the /etc/rc file?

◦ What is the performance impact on NAS when using FPolicy in Data ONTAP 7-mode?

◦ What is the performance impact on NAS when using FPolicy in ONTAP?

◦ What is the potential impact of PAUSE frames on a network connection?

◦ What is the procedure for graceful shutdown and power up of a storage system during scheduled power outage?

◦ What is the procedure to request License Keys for different versions of Data ONTAP?

◦ What is the proper configuration for a volume containing a LUN?

◦ What is the purpose of *.LOD.FVF files?

◦ What is the purpose of the "autosupport" user account in ONTAP?

◦ What is the quickest way to copy folder / files out of a snapshot - back onto homedir on the filer?

◦ What is the recommended Fillword setting for using 8GBps Brocade switches?

◦ What is the recommended tuning for Windows Terminal Server (WTS) CIFS clients?

◦ What is the recommended value for ONTAP Vscan offbox timeout settings?

◦ What is the right format of ‘-paths-to-exclude’ in ‘vserver vscan onaccess-policy’ command?

◦ What is the RSA key size supported by NetApp with open SSL FIPS?

◦ What is the Support Statement for dNFS on Data ONTAP 7-Mode and clustered Data ONTAP FAS?

◦ What is the theoretical maximum throughput of a Gigabit Ethernet interface?

◦ What is volume autosize in Data ONTAP?

◦ What Kerberos Encryption Types are supported with NAS protocols for Data ONTAP 8 7-mode?

◦ What Kerberos Encryption Types are supported with NAS protocols for ONTAP 9?

◦ What kind of volumes can not be run the deduplication manually?

◦ What LIF roles does clustered Data ONTAP use to establish connections to remote servers?

◦ What ports need to be open for various protocol access to the storage system and which port numbers are used for communications?

◦ What should the RX light power of an SFP be?

◦ What TCP ports does FlexCache use between the cache and the origin?

◦ What triggers an update to Disk, Shelf, or ACP firmware in Data ONTAP 8 7-Mode?

◦ What VAAI offloaded operations are supported by Data ONTAP?

◦ What will happen when my Autosupport Certificate in ONTAP expires?
Running chmod g+s on a directory removes the SGID bit when the user is not part of the group

- When configuring dynamic multimode vifs (LACP) IP connectivity is lost
- When do we use the bye, halt, and reboot commands?
- When is in-order delivery (IOD) required and how is it set?
- When migrating data, file names conflict with 8.3 file names and some files get overwritten in ONTAP
- When Netapp Volume Encryption (NVE) CC-mode is enabled a password is required
- When to restart the NDMPD service in Data ONTAP?
- When using NFSv4 sometimes the ls command returns the wrong user and group
- Which are the different shells in Data ONTAP 8 Cluster-Mode and what are their uses?
- Which Network File System (NFS) TCP and NFS UDP ports are used on the storage system?
- Which ONTAP image should I download? Non-restricted Countries or Restricted Countries?
- Which ONTAP release is recommended for disks?
- Which platforms support NetApp Volume Encryption (NVE)?
- Which ports are needed to run Virus Scan / FPolicy through a firewall?
- While accessing Brocade Webtool GUI it throws Exception encountered during initialization: com.brocade.web.secsan.SecureSANException: white space
- Why "volume show" shows a value greater than 0 for "Space Saved by Deduplication" even if volume efficiency policy is not set?
- Why am I getting a SPARES LOW warning?
- Why am I seeing new QoS policies after upgrading to ONTAP 9.3?
- Why are CIFS sessions not signed when encryption and smb signing are both enabled on the SVM?
- Why CRC errors on the storage controller may follow the placement of a lif?
- Why does EMS display "nfsConnResetAndClose" alert caused by "OncRpcTcpInvalidRecordMarker"?
- Why does FabricPool generate more cloud storage load on ONTAP reboot?
- Why does flex volume clone split take a long time?
- Why Does NetApp Harvest Report High Usage Times for WAFL Cleaning?
- Why does the host file system and management softwares show different space usage than in Data ONTAP?
- Why does volume move copy cloud tiered data on releases 9.6 and above
- Why does event get dropped?
- Why does "vserver cifs session show" show sessions with long-running idle time?
- Why do NFSv4 and NFSv4.1 I/O stop while a takeover/giveback, an aggregate relocation occur, or a VFiler Migration?
- Why do volume names have (1) appended to the end of them after they are moved?
- Why is a warning displayed when attempting to create one or more data volumes in the root aggregate in Data ONTAP Cluster-Mode?
- Why is ONTAP giving me different search results on different clusters?
- Why is there QoS latency after upgrading to ONTAP 9.5+?
- Why is the giveback of a clustered Data ONTAP aggregate vetoed?
- Why is vol0 showing high number of IOPS?
- Why is Windows Explorer reporting incorrect values in properties pane?
- Why is Write Anywhere File Layout (WAFL) reserve using a large percentage of my aggregate?
- Why workload bursts too high for QOS ratebucket limits
- Why would an FCP SAN host login to storage, then immediately logout?
- Widelinks are only accessible on the second attempt
- 7MTT - The source volume languages are ‘undefined’; will 7MTT require a change of the source volume language before a migration to clustered Data ONTAP?
- Will disabling oplocks disrupt existing locks?
- Will Network File System (NFS) versions 2, 3 and 4 work through a firewall?
- Windows 10 takes long to open file in CIFS share of ONTAP
- Windows Disk shows unallocated post 7MTT migration
- Windows Explorer hangs for a couple of seconds while opening or renaming the folders on FlexGroup CIFS share in ONTAP 9.4+
- Windows NFS clients fail to mount volumes from ONTAP
- Windows NFS client rename issue
- Windows Photo App shows excessive OPEN/CLOSE ops on CIFS shares
- Windows SCSI unmap
- Windows users are mapped to pcuser instead of the appropriate UNIX user
- Windows web application gets access denied while accessing CIFS share under UNIX volume
- Working with one-way Active Directory trust relationships and ONTAP
- XCP for NFS sync and/or copy fails with error: 'utf8' codec can't decode byte 0xd3 in position 67: invalid continuation byte
- Zombie exhaustion accounting for poor delete performance

• ONTAP Select
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- BadPoolAssign error during ONTAP upgrade
- Cluster refresh operation on the ONTAP Select starts failing after changing ESXi root password
- Deploy API service is currently not available. (Press Ctrl-C to continue to the shell)
- Error : Can't find label CLENUP at /opt/netapp/lib/DVADMIN/VM.pm
- Failed to add mirror disk in ontap select : StorageAddFailed
- How to import custom CA or Self signed certificates to ONTAP Select Deploy?
- How to increase capacity for ONTAP Select HA Cluster
- How to migrate ONTAP Select deploy tool to a new VM machine
- How to reclaim capacity tier license in ONTAP SELECT by removing aggregate.
- How to remove an ONTAP Select VM from the ONTAP Deploy VM
- How to remove unassigned disk from ONTAP Select Cluster
- Is it possible to recover lost ONTAP Select Deploy admin credentials?
- Is the original ONTAP Select Deploy server required to administer a deployed Select server?
- Modifying DNS configuration of ONTAP Deploy instance
- NetApp ONTAP Select vNAS solution for VMware vSAN
- Nonidential vmware directory structure
- ONTAP Deploy VM hung with Error "Probing EDD"
- ONTAP Select: HA Group Notification (PARTNER DOWN, TAKEOVER IMPOSSIBLE ) EMERGENCY
- ONTAP Select: Unable to create data aggregate, Reason: 1 disk needed, but not enough matching disks are available
- ONTAP Select - Aggregate restricted, WAFL inconsistent after VMware SCSI adapter order change
- Ontap Select Cluster Refresh failure with error:"object is not subscriptable"
- ONTAP Select Deploy - Unable to select Network when creating Cluster
- ONTAP Select Deploy can not create the node following: Unable to mark VM disks independent-persistent
- ONTAP Select LIFs don't failover when frontend Network is down
- ONTAP Select nodes will not boot due to power outage
- ONTAP Select node boot error Waiting for requisite number of Mailboxes. Press Ctrl-C
- OTS - Unable to create Data aggregate using Capacity Pool License
- Unable to add SnapLock license to new ONTAP Select Installation
- Unable to copy image to cluster or node and ONTAP upgrade fails
- Unable to expand ONTAP Select storage: Datastore is not visible
- Unable to reclaim space for removed aggregates in ONTAP Select
- Unable to select Storage Pool in ONTAP Select Deploy
- Unable to send network traffic over Cisco Nexus vPC with ip.fastpath enabled
- Upgrading ONTAP Select Clusters
- VMware Tools not running on ONTAP Select
- vSphere VM Direct Console to serial port is not working
- What does high CPU utilization indicate?
- What impact an ESXi upgrade have on running Ontap Select VMs?
- What is the proper way to shut down an ONTAP Select node?

- Open Systems SnapVault (OSSV)
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- OSSV base snapshot for transfer no longer exists on the source
- OSSV restore fails with error "The data is invalid"
What are the appropriate log files to collect for OSSV troubleshooting?

- **Single Mailbox Recovery (SMBR)**

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  - Authentication failed when try to connect SMBR to SnapCenter
  - Does clustered Data ONTAP support CIFS/SMB NDO?
  - How to enable debug logging or increase the logging level in SMBR
  - How to obtain license for SMBR 8.*
  - How to restore from secondary storage in SMBR with SnapCenter
  - Single Mailbox Recovery fails with error: "Command Mount-SdSnapshot failed"
  - SMBR 7.2.* Cannot open self mailbox as a target : E_INVALIDARG: Invalid arguments were passed into function
  - SMBR failing with "Command Mount-SdSnapshot failed" cause by missing Powershell Module
  - What are SMB Continuously Available (CA) Shares

- **Storage Replication Adapter for Data ONTAP**

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  - Failed to promote replica device error in SRM / SRA
  - How to disable SNMP traps set by Storage Replication Adapter and VASA Provider
  - How to troubleshoot test failover issues in SRA
  - Installing Storage Replication Adapter (SRA) 4.0 client doesn't complete because of "Invalid credentials"
  - NetApp Storage Replication Adapter 4.0/7.X for ONTAP Sizing Guide
  - Storage Replication Adapter: Unable to match consistency group at the remote site for the local consistency group
  - Storage Replication Adapter (SRA) - Cannot enable array pair due to differing case sensitivity in cluster peering
  - Installing of SRA 4.0P1 client plugin (netapp_sra_4.0P1_ontap_64bit.msi) hangs at the server IP and password screen
  - Storage Replication Adapter (SRA) 9.7: VMware Site Recovery Manager (SRM) Virtual Appliance reports "No storage replication adapters installed"
  - SRA command "testFailoverStart" failed. Storage port not found Either Storage port information provided in NFS list is incorrect
  - SRA reports error during failover: Failed to create snapshots of replica devices - Unable to add the initiators passed in SRM input to initiator group
  - SRM Reprotect not completing correctly and showing error Failover in progress
  - SRM/SRA test failover fails with the error message: Failed to create snapshots of replica devices
  - Storage Replication Adapter: "SRA command 'discoverDevices' failed. Device is not mapped"
  - Storage Replication Adapter: How to collect logs from a SRA appliance
Storage Replication Adapter: SRA appliance service is not running and java.io.IOException
- Storage Replication Adapter: SRA commands run slower than they did at initial setup
- Storage Replication Adapter: SRA command 'discoverArrays' failed
- Storage Replication Adapter: Unable to find matching device
- Storage Replication Adapter: Windows Installer issue
- Storage Replication Adapter (SRA): "Array Manager for SRA was not found" or "No peer array pair"
- Storage Replication Adapter (SRA): Discover Devices fails with 'Storage port not found' message
- Storage Replication Adapter (SRA): Multiple values are not supported for "nosuid/anon" option
- Storage Replication Adapter (SRA): Operation timed out after 300 seconds
- VMware SRM array manager discovery displays null peer array ID for remote site

- **Virtual Storage Console for VMware vSphere**
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  - "Unknown" error when selecting an aggregate in the Virtual Storage Console provisioning wizard
  - Devices backing volume do not support UNMAP
  - Enabling or accessing the NetApp VASA Provider from vSphere web client, throws error "Unable to connect to VPServer"
  - Guest VM file system partition/disk alignment for VMware vSphere, other virtual environments, and NetApp storage systems
  - How to change the amount of JAVA HEAP allocated for VSC from Windows
  - How to change the IP address of an existing deployment of VSC / SRA / VASA Provider 7.x
  - How to clear stale locks in VMware and NFSv4.1
  - How to configure RBAC for Virtual Storage Console
  - How to configure Virtual Storage Console to use SHA2 for self-signed certificate creation
  - How to configure VMware vSphere 4.x with Data ONTAP 8.x
  - How to configure VMware vSphere 5.x for Data ONTAP 7.3 and 8.x
  - How to configure VMware vSphere 6.x on Data ONTAP 8.x
  - How to correct guest VM data partition alignment in a VMware vSphere 5.x environment
  - How to disable VSC host discovery job for some specific ESXi hosts
  - How to enable the reset_on_attempted_reserve Storage Array Type Plugin option for a NetApp array on VMware vSphere
  - How to gather logs for the Virtual Storage Console (VSC) plugin 7.x / 9.x using the vSphere WebClient / HTML5 UI
  - How to Harden the NetApp Virtual Storage Console, Storage Replication Adapter, and VASA Provider Unified Appliance
  - How to integrate the NFS VAAI Plug-In with VSC for VMware 6.X using the "install to host" feature
  - How to manually configure Task Set Full (QFull) Tunables for LUNs in vSphere 5.1
How to manually restore a VMware ESX virtual machine from an NFS volume/datastore snapshot
◦ How to manually restore a VMware ESX virtual machine from a snapshot volume/LUN
◦ How to perform a fresh install of Virtual Storage Console and maintain backup job information
◦ How to perform a migration of VSC to a new server and retain backup job information
◦ How to perform a VASA Provider Disaster Recovery
◦ How to recover files manually using VSC’s Mount feature
◦ How to Remove a Cluster From Virtual Storage Console for Vmware (VSC) Without Disconnecting Storage
◦ Virtual Storage Console / VASA Provider: How to resolve display issues with the vSphere Web Client by removing user interface extensions
◦ How to troubleshoot communication issues with VSC
◦ How to Troubleshoot Storage Discovery Failures for VSC
◦ How VMware Atomic Test and Set (ATS) heartbeats can impact connectivity to storage
◦ Incorrect status ‘Failover in Progress’ is reported for SRA in SRM
◦ Is there a formal instruction for uninstallation of VSC virtual appliance?
◦ Is there a parameter in VSC that sets the maximum number of connections to access the database?
◦ NetApp HCI: How to upgrade vSphere from 6.0U3a to 6.5U1
◦ NetApp Virtual Storage Console, VASA Provider and Storage Replication Adapter for VMware vSphere: Scaling for larger environments
◦ No NFS protocol endpoint found on cluster nodes
◦ Prefix length can not be saved when setting up VSC within IPv6 environment
◦ Provision datastore task fails as Virtual Storage Console is unable to select a host
◦ What are the recommended settings for VMware ESX/ESXi 5.X, 4.x, 3.5 when connected to NetApp Storage Systems?
◦ Security Hardening procedure for VSC, SRA and VASA Provider
◦ Sluggish response on Hyper-V VMs, logging Event ID 129
◦ SmsPropertyProvider error in vCenter Server after VSC migration to 9.7
◦ SRA 9.7 Adapter Installer Errors with Invalid Credentials
◦ SVM is missing in Virtual Storage Console (VSC) with vSphere 6.7
◦ How to tune memory settings of virtual appliance for VSC, VASA Provider, and SRA for scale and performance
◦ VASA Provider: The operation is not allowed in the current state of the datastore
◦ VASA Provider: Unable to disable VASA Provider after upgrading the Unified Appliance
◦ VASA Provider - Upgrading NetApp Unified Appliance (UA) causes user-defined Storage Capability Profiles (SCP) to become unusable during datastore provisioning
◦ vCenter Error while registering VASA Provider in Virtual Storage Console (VSC)
◦ Virtual Appliance for VSC, VASA Provider, and SRA: VASA Provider and SRA services are disabled
◦ Virtual machines that are accessed through NFS datastores appear to be inaccessible
◦ Virtual Storage Console: Aggregate missing in Provision Datastore wizard
Virtual Storage Console: Connection Timed Out
Virtual Storage Console: Guidelines on implementing CA signed certificates
Virtual Storage Console: How to resolve VSC registration issues
Virtual Storage Console: Implementing CA signed certificates
Virtual Storage Console: Implementing Wildcard certificates
Virtual Storage Console: Upgrading VSC appliance fails "failed to mount ISO"
Virtual Storage Console: User Interface extensions are not pulled by vCenter
Virtual Storage Console: /opt/netapp/vscserver/etc/vsc/performance.json (No such file or directory)
Virtual Storage Console (VSC): SVM missing from Storage Systems menu after successful cluster discovery
Virtual Storage Console (VSC) Datastore Report and Traditional Dashboard aren't reporting IOPS and Latency
Virtual Storage Console 4.x stops working after vCenter 5.5U3b update
Virtual Storage Console for VMware vSphere (VSC) Shows False Alerts
Virtual volumes: Protecting and Recovering the NetApp VASA Provider
VMware Datastore displays more disk utilization on LUN than what it shows up from ONTAP
VM Snapshot fails with vendor specific error
VSC, VASA, and SRA 7.0 ONTAP RBAC Configuration
NetApp Virtual Storage Console, VASA Provider and Storage Replication Adapter: Manually collecting logs
VSC: Storage system discovery fails with ssl not configured error
VSC datastore provisioning creates indirect mounts when storage is added by SVM
Virtual Storage Console for VMware (VSC) Error: "Unable to contact VASA server" when registering VASA Provider
Virtual Storage Console for VMware (VSC) - HTTP ERROR 403, Problem accessing Main.html. Reason: Forbidden
VSC throws error while fetching host information "Error while searching for hosts additional column field values"
VSC/SMVI backup fails with "Failed to rename snapshot"
VVOL Datastore displays "vSphere HA failed to create a configuration vVol for this datastore" alarm
What are the guest OS tunings needed for a VMware vSphere deployment?
What are the VSC for VMware preferences available in the vscPreferences.xml file?
What is a VAAI primitive and what are its limitations?
What settings made by VSC for VMware require an ESX host reboot to take effect?