

Command Line Reference - NetApp Clustered Data ONTAP 8.2.

CLI Nr.	Task Nr.	Task	Category	Command	Description	Notice
0001	0001	Configure Service Processor	System	sp setup	starts setup of sp configuration	configuration in BIOS of each node, LOADER-A> priv set diag
0002	0002	Configure Cluster	Cluster	cluster setup	basic creation and configuration of the cluster and first node	normally setup is made at first boot of the node
0003	0002	Configure Cluster	Cluster	cluster join	join a node to a cluster	normally possible at first boot of the node
0004	0002	Configure Cluster	Cluster	cluster show	show cluster status	-
0005	0002	Configure Cluster	Cluster	system node rename -node OLDNODENAME NEWNODENAME	change nodename	-
0006	0003	Configure Licensing	Licensing	system license add	adds licenses to the matching nodes	in 8.2 licenses are based on controller serial number, license add is possible during cluster setup too
0007	0003	Configure Licensing	Licensing	system license show	shows active licenses	-
0008	0004	Configure Storage Failover	Storage Failover	storage failover modify -node NODENAME -enabled true	enables storage failover	-
0009	0004	Configure Storage Failover	Storage Failover	storage failover show	show storage failover status	-
0010	0004	Configure Storage Failover	Storage Failover	system node reboot -node NODENAME -inhibit-takeover true	reboots node without takeover	sometimes needed when enabling storage failover
0011	0004	Configure Storage Failover	Storage Failover	storage failover modify -hwassist-partner-ip NODE1-MGMT-IP -node NODENAME2	configures mgmt-IP of NODE1 as hw-assist address for NODE2	-
0012	0004	Configure Storage Failover	Storage Failover	storage failover modify -hwassist-partner-ip NODE2-MGMT-IP -node NODENAME1	configures mgmt-IP of NODE2 as hw-assist address for NODE1	-
0013	0004	Configure Storage Failover	Storage Failover	storage failover hwassist show	shows actual hwassist configuration	-
0014	0004	Configure Storage Failover	Storage Failover	cluster ha modify -configured true	enables ha cluster configuration	just needed in 2 node cluster setups
0015	0004	Configure Storage Failover	Storage Failover	cluster ha show	shows actual ha cluster configuration	-
0016	0005	Configure administrative users	Control	security login password -username diag	configures a password for diag user	-
0017	0005	Configure administrative users	Control	security login unlock - username diag	unlocks diag user	-
0018	0005	Configure administrative users	Control	security login show -username diag	control settings of diag user	-
0019	0005	Configure administrative users	Control	security login password -username admin	change password for user admin	can be set during initial setup
0020	0006	Basic CLI Navigation	CLI Navigation	set -privilege admin advanced diag	change cli admin level	-
0021	0006	Basic CLI Navigation	CLI Navigation	?	lists available commands / values	-
0022	0006	Basic CLI Navigation	CLI Navigation	man COMMAND	shows man pages for command	exit with "q"
0023	0006	Basic CLI Navigation	CLI Navigation	system node run -node NODENAME	change to nodeshell on NODENAME	go back to cluster shell with "exit"
0024	0006	Basic CLI Navigation	CLI Navigation	system node systemshell -node NODENAME	change to systemshell on NODENAME	Logon: diag, password for diag user, go back to cluster shell with "exit"
0025	0006	Basic CLI Navigation	CLI Navigation	set -rows 0	unlimited scrolling	-
0026	0007	Configure Time Services	Time Services	system date modify -timezone TIMEZONE -dateandtime YYYYMMDDhhmm	sets timezone, date and time	-
0027	0007	Configure Time Services	Time Services	system date show	shows actual timezone, date and time	-
0028	0007	Configure Time Services	Time Services	system services ntp config modify -enabled true	enable NTP service	-
0029	0007	Configure Time Services	Time Services	system services ntp config show	shows state of NTP service	-
0030	0007	Configure Time Services	Time Services	system services ntp server create -node NODENAME -server NTPSERVERIP	adds NTP Server to NODENAME	-
0031	0007	Configure Time Services	Time Services	system services ntp server show	shows NTP server configuration	-
0032	0008	Configure SNMP Services	SNMP Services	system snmp community add -community-name public -type ro	configure SNMP community	-
0033	0008	Configure SNMP Services	SNMP Services	system snmp contact -contact "NAME"	configure SNMP contact	-
0034	0008	Configure SNMP Services	SNMP Services	system snmp location -location "NAME"	configure SNMP location	-
0035	0008	Configure SNMP Services	SNMP Services	system snmp traphost add -peer-address IPADDRESS	configure SNMP traphost	-
0036	0008	Configure SNMP Services	SNMP Services	system snmp show	show SNMP configuration	-
0037	0009	Configure Autosupport	Autosupport	system autosupport modify -node * -hostname-subj true	use hostname in the subject of the email	-
0038	0009	Configure Autosupport	Autosupport	system autosupport modify -node * -mail-hosts MAILHOSTIP	set mailhost for every node	-
0039	0009	Configure Autosupport	Autosupport	system autosupport modify -node * -noteto MAILADDRESS1, MAILADDRESS2	set mail note to addresses for every node	-
0040	0009	Configure Autosupport	Autosupport	system autosupport modify -node * -partner-address MAILADDRESS1, MAILADDRESS2	set mail partner to addresses for every node	-
0041	0009	Configure Autosupport	Autosupport	system autosupport modify -node * -perf true	include performance statistics in autosupport	-
0042	0009	Configure Autosupport	Autosupport	system autosupport modify -node * -remove-private-data true	remove private data from autosupport (if you need it)	-
0043	0009	Configure Autosupport	Autosupport	system autosupport modify -node * -support enable	enable autosupport	-
0044	0009	Configure Autosupport	Autosupport	system autosupport modify -node * -to MAILADDRESS1, MAILADDRESS2	set mail to addresses for every node	-
0045	0009	Configure Autosupport	Autosupport	system autosupport modify -node * -transport smtp https	choose smtp or https as transport protocol	-
0046	0009	Configure Autosupport	Autosupport	system autosupport modify -node NODENAME -from MAILADDRESS	set sender email address for autosupport	-
0047	0009	Configure Autosupport	Autosupport	system autosupport show -node * -instance	show actual autosupport settings	-
0048	0009	Configure Autosupport	Autosupport	system autosupport invoke -node NODENAME test -message TEXT	send testmail	-
0049	0010	Enable Remote Access to root volumes	Control	vserver services web modify -name spi ontapi compat -vserver * -enabled true	enables web access to all node root volumes	needs to be executed every time you add a node, access to logs or crashdumps via webbrowser: https://CLUSTERMGMTIP/spi/NODENAME/etc/log/ https://CLUSTERMGMTIP/spi/NODENAME/etc/crash/
0050	0010	Enable Remote Access to root volumes	Control	vserver services web access create -name spi -role admin -vserver CLUSTERNAME	normally automatically set during "web modify"	-
0051	0010	Enable Remote Access to root volumes	Control	vserver services web access create -name ontapi -role admin -vserver CLUSTERNAME	normally automatically set during "web modify"	-
0052	0010	Enable Remote Access to root volumes	Control	vserver services web access create -name compat -role admin -vserver CLUSTERNAME	sets access rights for compat mode	-
0053	0011	Create and configure aggregates	Disk	storage disk show -disk *	shows all disks (unassigned too)	-
0054	0011	Create and configure aggregates	Disk	storage disk assign -disk NODENAME:DISK -owner NODENAME	assign disk to a node	-
0055	0011	Create and configure aggregates	Disk	storage disk option modify -node NODENAME -autoassign off	disable disk autoassignment	default: on
0056	0011	Create and configure aggregates	Disk	storage disk option modify -node NODENAME -autocopy off	disable autocopy	default: on
0057	0011	Create and configure aggregates	Disk	storage disk option modify -node NODENAME -bkg-firmware-update off	disable automatic disk firmware upgrade	default: on
0058	0011	Create and configure aggregates	Disk	storage disk optiond modify -node NODENAME -autoassign-shelf on	enables autoassignment of disks when adding a whole shelf	default: off
0059	0011	Create and configure aggregates	Aggregates	storage aggregate show	shows actual aggregates	-
0060	0011	Create and configure aggregates	Aggregates	storage aggregate rename OLDNAME NEWNAME	renames aggregates	-
0061	0011	Create and configure aggregates	Aggregates	storage aggregate create -aggregate AGGRNAME -diskcount NUMBEROFDISKS -raidtype raid_dp -maxraidsize NUMBEROFDISKSPERRAID -nodes NODENAME	creates aggregates	add "-simulate true" for a preview
0062	0011	Create and configure aggregates	Aggregates	storage aggregate modify -aggregate AGGRNAME -maxraidsize NUMBEROFDISKSPERRAID	changes raidsize of aggregate	-
0063	0011	Create and configure aggregates	Aggregates	storage aggregate add-disks -aggregate AGGR NAME -diskcount NUMBEROFDISKS	adds disk to aggregate	-
0064	0011	Create and configure aggregates	Snapshots	system node run -node NODENAME -command snap reserve -A AGGRNAME 0	set snap reserve on aggregate to 0	default: 0
0065	0011	Create and configure aggregates	Snapshots	system node run -node * -command snap reserve -A	shows snap reserve of aggregates	7-mode nodeshell command

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0066	0011	Create and configure aggregates	Snapshots	system node run -node NODENAME -command snap sched -A AGGRNAME 0 0 0	deactivate aggregate snap schedule	7-mode nodeshell command
0067	0011	Create and configure aggregates	Snapshots	system node run -node * -command snap sched -A	shows snap schedules of aggregates	7-mode nodeshell command
0068	0011	Create and configure aggregates	Snapshots	system node run -node NODENAME -command snap delete -f -a -A AGGRNAME	delete all aggregate snapshots	7-mode nodeshell command
0069	0011	Create and configure aggregates	Snapshots	system node run -node * -command snap list -A	shows	7-mode nodeshell command
0070	0012	Create and configure aggregates	Aggregates	storage aggregate show -aggregate AGGRNAME -OPTIONVALUE...	shows configuration of the aggregate	-
0071	0012	Configure DNS	DNS	vserver services dns show	shows DNS configuration	-
0072	0013	Configure DNS	DNS	vserver services dns modify -vserver VSERVERNAME -domains DOMAIN -name-servers IP1,IP2 -state enabled	change DNS configuration	normally setup during first boot
0073	0013	Optimize root volume	Volumes	volume show	shows actual volumes	-
0074	0013	Optimize root volume	Volumes	volume rename -vserver NODENAME -volume vol0 -newname NEWNAME	renames root volume	-
0075	0013	Optimize root volume	Volumes	volume size -vserver NODENAME -volume ROOTVOLNAME -new-size 79PERCENTOFAGGR	resize root volume	-
0076	0013	Optimize root volume	Snapshots	system node run -node NODENAME -command snap sched ROOTVOL 0 0 0	deactivate rootvol snap schedule	because of rootvol is 7-mode vol, you need nodeshell command
0077	0013	Optimize root volume	Snapshots	system node run -node * -command snap sched	shows snap schedules of rootvols	because of rootvol is 7-mode vol, you need nodeshell command
0078	0013	Optimize root volume	Snapshots	system node run -node NODENAME -command snap reserve ROOTVOL 0	set snap reserve of rootvol to 0	because of rootvol is 7-mode vol, you need nodeshell command
0079	0013	Optimize root volume	Snapshots	system node run -node * -command snap reserve	shows snap reserves of rootvols	because of rootvol is 7-mode vol, you need nodeshell command
0080	0013	Optimize root volume	Snapshots	system node run -node NODENAME -command snap delete -f -a ROOTVOL	delete all rootvol snapshots	because of rootvol is 7-mode vol, you need nodeshell command
0081	0013	Optimize root volume	Snapshots	system node run -node * -command snap list	shows all snapshots of rootvols	because of rootvol is 7-mode vol, you need nodeshell command
0082	0014	Optimize network settings	Networking	system node run * -command options cdpd.enable on	enable cdp on all ports	for NetApp Config Advisor
0083	0014	Optimize network settings	Networking	system node run * -command options cdpd	show cdp options	-
0084	0014	Optimize network settings	Networking	network port modify -node NODENAME -port * -flowcontrol-admin none	deactivates flowcontrol on every port	best practice
0085	0014	Optimize network settings	Networking	network port show -node NODENAME -port * -fields flowcontrol-admin, flowcontrol-oper	shows flowcontrol settings	-
0086	0015	Configuring Cluster management network	Networking	network port modify -node NODENAME1 -port e0d -role data	configure port e0d as data port	-
0087	0015	Configuring Cluster management network	Networking	network port modify -node NODENAME1 -port e0f -role data	configure port e0f as data port	-
0088	0015	Configuring Cluster management network	Networking	network port modify -node NODENAME1 -port e0d -role data	configure port e0d as data port	-
0089	0015	Configuring Cluster management network	Networking	network port modify -node NODENAME1 -port e0f -role data	configure port e0f as data port	-
0090	0015	Configuring Cluster management network	Networking	network port show	shows port configuration	-
0091	0015	Configuring Cluster management network	Networking	network interface migrate -vserver democluster -lif cluster_mgmt -destination-node NODENAME1 -destination-port e0d	migrate cluster_mgmt LIF to port e0d	-
0092	0015	Configuring Cluster management network	Networking	network interface modify -vserver democluster -lif cluster_mgmt -home-node NODENAME1 -home-port e0d	modifies homeport of cluster_mgmt LIF	-
0093	0015	Configuring Cluster management network	Networking	network interface failover-groups create -failover-group cluster_mgmt -node NODENAME1 -port e0d	creates failovergroup cluster_mgmt with port e0d of node1	-
0094	0015	Configuring Cluster management network	Networking	network interface failover-groups create -failover-group cluster_mgmt -node NODENAME1 -port e0f	adds port e0f of node1 to failovergroup	-
0095	0015	Configuring Cluster management network	Networking	network interface failover-groups create -failover-group cluster_mgmt -node NODENAME2 -port e0d	adds port e0d of node2 to failovergroup	-
0096	0015	Configuring Cluster management network	Networking	network interface failover-groups create -failover-group cluster_mgmt -node NODENAME2 -port e0f	adds port e0f of node2 to failovergroup	repeat for every node which should takeover cluster_mgmt
0097	0015	Configuring Cluster management network	Networking	network interface failover-groups show	shows configured failover groups	-
0098	0015	Configuring Cluster management network	Networking	network interface modify -vserver CLUSTERNAME -lif cluster_mgmt -failover-group cluster_mgmt	configures failovergroup cluster_mgmt to LIF cluster_mgmt	-
0099	0015	Configuring Cluster management network	Networking	network interface show -failover -lif cluster_mgmt	shows failover settings of LIF cluster_mgmt	-
0100	0016	Configuring Node management network	Networking	network interface migrate -vserver NODENAME1 -lif mgmt1 -destination-node NODENAME1 -destination-port e0d	migrate mgmt1 LIF mgmt1 of node 1 to port e0d	-
0101	0016	Configuring Node management network	Networking	network interface modify -vserver NODENAME1 -lif mgmt1 -home-node NODENAME1 -home-port e0d	modifies homeport of mgmt1 LIF	-
0102	0016	Configuring Node management network	Networking	network interface failover-groups create -failover-group mgmt1_NODENAME1 -node NODENAME1 -port e0d	creates failovergroup mgmt1_NODENAME1 with port e0d of node1	-
0103	0016	Configuring Node management network	Networking	network interface failover-groups create -failover-group mgmt1_NODENAME1 -node NODENAME1 -port e0f	adds port e0f of node1 to failovergroup	-
0104	0016	Configuring Node management network	Networking	network interface modify -vserver NODENAME1 -lif mgmt1 -failover-group mgmt1_NODENAME1	configures failovergroup mgmt1_NODENAME1 to LIF mgmt1	repeat task 0016 for every node management LIF (mgmt1)
0105	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port modify -node NODENAME1 -port e0d -role data	configure port e0d as data port	-
0106	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port modify -node NODENAME1 -port e0f -role data	configure port e0f as data port	-
0107	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port modify -node NODENAME1 -port e0d -role data	configure port e0d as data port	-
0108	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port modify -node NODENAME1 -port e0f -role data	configure port e0f as data port	-
0109	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port show	shows port configuration	-
0110	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port ifgrp create -node NODENAME1 -ifgrp a0a -distr-func ip -mode multimode_lacp	creates LACP ifgrp (a0a)	repeat on all nodes
0111	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port ifgrp add-port -node NODENAME1 -ifgrp a0a -port e0c	adds port e0c to a0a	repeat on all nodes
0112	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port ifgrp add-port -node NODENAME1 -ifgrp a0a -port e0e	adds port e0e to a0a	repeat on all nodes
0113	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port ifgrp show	shows ifgrp configuration	repeat on all nodes
0114	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port vlan create -node NODENAME1 -port a0a -vlan-id 100	create VLAN 100 on ifgrp a0a	in this example used for CIFS
0115	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port vlan create -node NODENAME1 -port a0a -vlan-id 200	create VLAN 200 on ifgrp a0a	in this example used for NFS

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0116	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port vlan create -node NODENAME1 -port a0a -vlan-id 300	create VLAN 300 on ifgrp a0a	in this example used for ISCSI
0117	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network port vlan show	show VLANs	-
0118	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network interface failover-groups create -failover-group cifs -node NODENAME1 -port a0a-100	create failovergroup cifs with ifgrp a0a VLAN 100 of node1	-
0119	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network interface failover-groups create -failover-group cifs -node NODENAME2 -port a0a-100	adds ifgrp a0a VLAN 100 of node2 to failovergroup cifs	repeat for every node which is in VLAN 100
0120	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network interface failover-groups create -failover-group nfs -node NODENAME1 -port a0a-200	create failovergroup nfs with ifgrp a0a VLAN 200 of node1	-
0121	0017	Configuring LACP ifgrp with VLANs as basic for data LIFs	Networking	network interface failover-groups create -failover-group nfs -node NODENAME2 -port a0a-200	adds ifgrp a0a VLAN 200 of node2 to failovergroup nfs	repeat for every node which is in VLAN 200
0122	0018	Configure default snapshot schedule & policy	Jobs	job schedule cron modify -name hourly -minute 0 -hour 1-23 -dayofweek * -day ""	changes "hourly" cron to 1-23 every day	-
0123	0018	Configure default snapshot schedule & policy	Jobs	job schedule cron modify -name daily -minute 0 -hour 0 -dayofweek Mon-Sat -day ""	changes "daily" cron to 0 from Mon-Sat	-
0124	0018	Configure default snapshot schedule & policy	Jobs	job schedule cron modify -name weekly -minute 0 -hour 0 -dayofweek Sun -day ""	changes "weekly" cron to 0 on Sun	-
0125	0018	Configure default snapshot schedule & policy	Jobs	job schedule show	shows crons	-
0126	0018	Configure default snapshot schedule & policy	Snapshots	volume snapshot policy modify-schedule -policy default -schedule hourly -newcount 46	changes "default" policy to a retention of 46 hourly snapshots	-
0127	0018	Configure default snapshot schedule & policy	Snapshots	volume snapshot policy modify-schedule -policy default -schedule daily -newcount 12	changes "default" policy to a retention of 12 daily snapshots	-
0128	0018	Configure default snapshot schedule & policy	Snapshots	volume snapshot policy modify-schedule -policy default -schedule weekly -newcount 2	changes "default" policy to a retention of 2 weekly snapshots	-
0129	0018	Configure default snapshot schedule & policy	Snapshots	volume snapshot policy show	shows actual snapshot policies	-
0130	0019	Configure dedup schedules & policies	Jobs	job schedule cron create -name dedup_at_0000 -minute 0 -hour 0 -day "" -dayofweek *	creates cron for dedup every day at 0:00	-
0131	0019	Configure dedup schedules & policies	Storage Efficiency	volume efficiency policy create -policy dedup_at_0000 -vserver VSERVERNAME	creates a efficiency policy named "dedup_at_0000"	you need to create avolume efficiency policy for every vserver
0132	0019	Configure dedup schedules & policies	Storage Efficiency	volume efficiency policy modify -policy dedup_at_0000 -schedule dedup_at_0000 -enabled true -qos-policy background	configures the efficiency policy with schedule	-
0133	0019	Configure dedup schedules & policies	Jobs	job schedule cron create -name dedup_at_1800 -minute 0 -hour 18 -day "" -dayofweek *	creates cron for dedup every day at 18:00	-
0134	0019	Configure dedup schedules & policies	Storage Efficiency	volume efficiency policy create -policy dedup_at_1800 -vserver VSERVERNAME	creates a efficiency policy named "dedup_at_1800"	you need to create avolume efficiency policy for every vserver
0135	0019	Configure dedup schedules & policies	Storage Efficiency	volume efficiency policy modify -policy dedup_at_1800 -schedule dedup_at_1800 -enabled true -qos-policy background	configures the efficiency policy with schedule	-
0136	0020	Create and configure NFS vservers	vserver	vserver create -vserver VSERVERNAME -rootvolume ROOTVOLNAME -aggregate AGGRNAME -ns-switch file -nm-switch file	creates a NFS vserver	-
0137	0020	Create and configure NFS vservers	Snapshots	volume modify -vserver VSERVERNAME -volume ROOTVOLNAME -percent-snapshot-space 20	increase snapshot reserve of root volume	-
0138	0020	Create and configure NFS vservers	Snapshots	volume show -fields percent-snapshot-space	show snapshot space	-
0139	0020	Create and configure NFS vservers	Snapshots	volume snapshot show -vserver VSERVERNAME -volume VOLNAME	list all snapshots of volume	-
0140	0020	Create and configure NFS vservers	Networking	network interface create -vserver VSERVERNAME -lif nfs -role data -data-protocol nfs -home-node NODENAME	create LIF for vserver in defined nfs network with failover-group	-
0141	0020	Create and configure NFS vservers	Networking	network routing-groups show	show routing groups	-
0142	0020	Create and configure NFS vservers	Networking	network routing-groups route show	show default gateways	-
0143	0020	Create and configure NFS vservers	vserver	vserver modify -vserver VSERVERNAME -disallowed-protocols cifs, fcp, iscsi	disallow all other protocols than nfs	-
0144	0020	Create and configure NFS vservers	vserver	vserver show -vserver VSERVERNAME	show vserver configuration	-
0145	0020	Create and configure NFS vservers	NFS	vserver nfs create -vserver VSERVERNAME	start nfs in vserver	-
0146	0020	Create and configure NFS vservers	NFS	vserver nfs show	shows nfs status of vservers	-
0147	0020	Create and configure NFS vservers	Volumes	volume create -volume VOLNAME -aggregate AGGRNAME -size SIZE -vserver VSERVER -security-style unix -space-guarantee none -percent-snapshot-space 0 -snapshot-policy none -junction-patch /VOLNAME	create thinprovisioned volume with no snapshots and no snapshot reserve	-
0148	0020	Create and configure NFS vservers	Volumes	volume show -junction	show junctions	-
0149	0020	Create and configure NFS vservers	Storage Efficiency	volume efficiency on -volume VOLNAME -vserver VSERVERNAME	activate dedup on volume	-
0150	0020	Create and configure NFS vservers	Storage Efficiency	volume efficiency start -vserver VSERVERNAME -volume VOLNAME -scan-old-data true	start dedup job for volume	-
0151	0020	Create and configure NFS vservers	Storage Efficiency	volume efficiency modify -vserver VSERVERNAME -volume VOLNAME -compression true	enables compression on the volume	default: false
0152	0020	Create and configure NFS vservers	Storage Efficiency	volume efficiency modify -vserver VSERVERNAME -volume VOLNAME -inline-compression true	enables inline compression on the volume	default: false
0153	0020	Create and configure NFS vservers	Storage Efficiency	volume efficiency modify -vserver VSERVERNAME -volume VOLNAME -policy POLICYNAME	configure a Storage Efficiency policy to the volume	-
0154	0020	Create and configure NFS vservers	Storage Efficiency	volume efficiency policy show -vserver VSERVERNAME	shows Storage Efficiency policy on the volume	-
0155	0020	Create and configure NFS vservers	Storage Efficiency	df -S -h	shows space savings	-
0156	0020	Create and configure NFS vservers	Qtree	qtree create -vserver VSERVERNAME -volume VOLNAME -qtree QTREENAME -security-style unix	creates qtree within the volume	-
0157	0020	Create and configure NFS vservers	Qtree	qtree show	show qtrees	-
0158	0020	Create and configure NFS vservers	Export-Policy	vserver export-policy create -policyname POLICYNAME_RO	create ro_policy for volume layer	that clients can access the export-policy at a qtree level, the clients need ro rights on the rootvol of the vserver and the volume where the qtree resides
0159	0020	Create and configure NFS vservers	Export-Policy	vserver export-policy rule create -policyname POLICYNAME_RO -clientmatch CLIENTIP1 -rwrule never -rorule sys -superuser sys	set access of client1 with ro right in policy POLICYNAME_RO	-
0160	0020	Create and configure NFS vservers	Export-Policy	vserver export-policy rule create -policyname POLICYNAME_RO -clientmatch CLIENTIP2 -rwrule never -rorule sys -superuser sys	set access of client2 with ro right in policy POLICYNAME_RO	repeat for every client which needs access
0161	0020	Create and configure NFS vservers	Export-Policy	volume modify -vserver VSERVERNAME -volume ROOTVOLNFSVSERVER -policy POLICYNAME_RO	set POLICYNAME_RO policy on rootvol of vserver	if more different export-policies needed within the vserver (for example for every volume), rootvol needs an export policy where every client of every policy has ro access
0162	0020	Create and configure NFS vservers	Export-Policy	volume modify -vserver VSERVERNAME -volume VOLNAMEOFQTREE -policy POLICYNAME_RO	set POLICYNAME_RO policy on volume where qtree resides	-
0163	0020	Create and configure NFS vservers	Export-Policy	vserver export-policy create -vserver VSERVERNAME -policyname POLICYNAME	create policy for qtree layer	-
0164	0020	Create and configure NFS vservers	Export-Policy	vserver export-policy rule create -vserver VSERVERNAME -policyname POLICYNAME -clientmatch CLIENTIP1 -rwrule sys -rorule sys -superuser sys	set access of client1 with ro right in policy POLICYNAME	-
0165	0020	Create and configure NFS vservers	Export-Policy	vserver export-policy rule create -vserver VSERVERNAME -policyname POLICYNAME -clientmatch CLIENTIP2 -rwrule sys -rorule sys -superuser sys	set access of client2 with ro right in policy POLICYNAME	-

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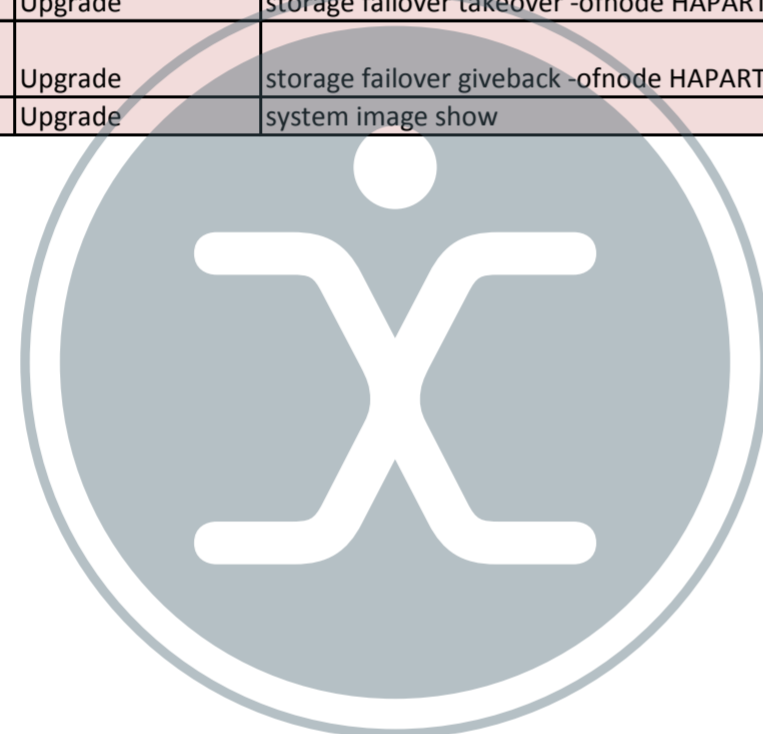
CLI Nr.	Task Nr.	Task	Category	Command	Description	Notice
0166	0020	Create and configure NFS vservers	Export-Policy	vserver export-policy rule show	shows export-policy configuration	-
0167	0020	Create and configure NFS vservers	Export-Policy	qtree modify -vserver VSERVERNAME -volume VOLNAMEOFQTREE -qtree QTREENAME -export-policy POLICYNAME	export the qtree with settings in POLICYNAME	-
0168	0020	Create and configure NFS vservers	Qtree	qtree show -vserver VSERVERNAME -fields export-policy	shows all export-policies within the vfiler	-
0169	0021	Create and configure ISCSI vservers	vserver	vserver create -vserver VSERVERNAME -rootvolume ROOTVOLNAME -aggregate AGGRNAME -ns-switch file -nm-switch file -rootvolume-security-style unix -language C.UTF-8 -snapshot-policy default	creates ISCSI vserver	-
0170	0021	Create and configure ISCSI vservers	Snapshots	volume modify -vserver VSERVERNAME -volume ROOTVOLNAME -percent-snapshot-space 20	increase snapshot reserve of root volume	-
0171	0021	Create and configure ISCSI vservers	Snapshots	volume show -fields percent-snapshot-space	show snapshot space	-
0172	0021	Create and configure ISCSI vservers	Snapshots	volume snapshot show -vserver VSERVERNAME -volume VOLNAME	list all snapshots of volume	-
0173	0021	Create and configure ISCSI vservers	Networking	network interface create -vserver VSERVERNAME -lif iscsi_NODENAME1 -role data -data-protocol iscsi -home-node NODENAME1 -home-port a0a-300 -address IP1 -netmask NETMASK	creates LIF on first node for iscsi with first ip fo the vserver	-
0174	0021	Create and configure ISCSI vservers	Networking	network interface create -vserver VSERVERNAME -lif iscsi_NODENAME2 -role data -data-protocol iscsi -home-node NODENAME2 -home-port a0a-300 -address IP2 -netmask NETMASK	creates LIF on second node for iscsi with second ip for the vserver	repeat for every node
0175	0021	Create and configure ISCSI vservers	vserver	vserver modify -vserver VSERVERNAME -disallowed-protocols cifs, fcp, nfs	disallow all other protocolls than iscsi	-
0176	0021	Create and configure ISCSI vservers	vserver	vserver show -vserver VSERVERNAME	show vserver configuration	-
0177	0021	Create and configure ISCSI vservers	ISCSI	vserver iscsi create -vserver VSERVERNAME	activates iscsi on vserver	-
0178	0021	Create and configure ISCSI vservers	ISCSI	vserver iscsi show	control iscsi status	-
0179	0021	Create and configure ISCSI vservers	Volumes	volume create -volume VOLNAME -aggregate AGGRNAME -size SIZE -vserver VSERVER -security-style unix -space-guarantee none -percent-snapshot-space 0 -snapshot-policy none -junction-patch /VOLNAME	create thinprovisioned volume with no snapshots and no snapshot reserve	-
0180	0021	Create and configure ISCSI vservers	Volumes	volume show -junction	show junctions	-
0181	0021	Create and configure ISCSI vservers	Storage Efficiency	volume efficiency on -volume VOLNAME -vserver VSERVERNAME	activate dedup on volume	-
0182	0021	Create and configure ISCSI vservers	Storage Efficiency	volume efficiency start -vserver VSERVERNAME -volume VOLNAME -scan-old-data true	start dedup job for volume	-
0183	0021	Create and configure ISCSI vservers	Storage Efficiency	volume efficiency modify -vserver VSERVERNAME -volume VOLNAME -compression true	enables compression on the volume	default: false
0184	0021	Create and configure ISCSI vservers	Storage Efficiency	volume efficiency modify -vserver VSERVERNAME -volume VOLNAME -inline-compression true	enables inline compression on the volume	default: false
0185	0021	Create and configure ISCSI vservers	Storage Efficiency	volume efficiency modify -vserver VSERVERNAME -volume VOLNAME -policy POLICYNAME	configure a Storage Efficiency policy to the volume	-
0186	0021	Create and configure ISCSI vservers	Storage Efficiency	volume efficiency policy show -vserver VSERVERNAME	shows Storage Efficiency policy on the volume	-
0187	0021	Create and configure ISCSI vservers	Storage Efficiency	df -S -h	shows space savings	-
0188	0021	Create and configure ISCSI vservers	Qtree	qtree create -vserver VSERVERNAME -volume VOLNAME -qtree QTREENAME -security-style unix	creates qtree within the volume	-
0189	0021	Create and configure ISCSI vservers	Qtree	qtree show	show qtrees	-
0190	0021	Create and configure ISCSI vservers	LUN	lun create -vserver VSERVERNAME -path /vol/VOLNAME/QTREENAME/LUNNAME -size SIZE -ostype OSTYPE -space-reserve disabled	creates thin provisioned LUN	-
0191	0021	Create and configure ISCSI vservers	LUN	lun show -vserver VSERVERNAME -v	shows detailed LUN informations	-
0192	0021	Create and configure ISCSI vservers	LUN	igroup create -vserver VSERVERNAME -igroup IGROUPNAME -protocol iscsi -ostype OSTYPE -initiator iqn....., iqn....	creates igroup	-
0193	0021	Create and configure ISCSI vservers	LUN	igroup show -vserver VSERVERNAME -v	shows detailed igroup informations	-
0194	0021	Create and configure ISCSI vservers	LUN	lun map -vserver VSERVERNAME -path /vol/VOLNAME/QTREENAME/LUNNAME -igroup IGROUPNAME -lun-id ID	maps LUN to igroup	-
0195	0022	Configure SnapDrive access	Control	security login password -username vsadmin -vserver VSERVERNAME	sets password for user vsadmin	-
0196	0022	Configure SnapDrive access	Control	security login unlock -username vsadmin -vserver VSERVERNAME	unlocks vsadmin user	-
0197	0022	Configure SnapDrive access	Networking	network interface failover-groups create -failover-group snapdrive_mgmt -node NODENAME1 -port e0d	configures failovergroup for snapdrive_mgmt - adds port e0d of node1	in this example snapdrive should communicate over the separate mgmt network
0198	0022	Configure SnapDrive access	Networking	network interface failover-groups create -failover-group snapdrive_mgmt -node NODENAME1 -port e0f	configures failovergroup for snapdrive_mgmt	-
0199	0022	Configure SnapDrive access	Networking	network interface failover-groups create -failover-group snapdrive_mgmt -node NODENAME2 -port e0d	configures failovergroup for snapdrive_mgmt	-
0200	0022	Configure SnapDrive access	Networking	network interface failover-groups create -failover-group snapdrive_mgmt -node NODENAME2 -port e0f	configures failovergroup for snapdrive_mgmt	repeat for every node which should takeover snapdrive_mgmt
0201	0022	Configure SnapDrive access	Networking	network interface failover-groups show	shows configured failover groups	-
0202	0022	Configure SnapDrive access	Networking	network interface create -vserver VSERVERNAME -lif snapdrive_mgmt_VSERVERNAME -firewall-policy mgmt -address IP -netmask NETMASK -role data -data-protocol none -home-node NODENAME -home-port e0d -failover-group snapdrive_mgmt	creates the snapdrive_mgmt LIF for vserver	-
0203	0023	Create and configure CIFS vservers	vserver	vserver create -vserver VSERVERNAME -rootvolume ROOTVOLNAME -aggregate AGGRNAME -ns-switch file -nm-switch file -rootvolume-security-style ntfs -language C.UTF-8 -snapshot-policy default	creates a CIFS vserver	-
0204	0023	Create and configure CIFS vservers	Snapshots	volume modify -vserver VSERVERNAME -volume ROOTVOLNAME -percent-snapshot-space 20	increase snapshot reserve of root volume	-
0205	0023	Create and configure CIFS vservers	Snapshots	volume show -fields percent-snapshot-space	show snapshot space	-
0206	0023	Create and configure CIFS vservers	Snapshots	volume snapshot show -vserver VSERVERNAME -volume VOLNAME	list all snapshots of volume	-
0207	0023	Create and configure CIFS vservers	Networking	network interface create -vserver VSERVERNAME -lif cifs -role data -data-protocol cifs -home-node NODENAME -home-port a0a-100 -address IP -netmask NETMASK -failover-group cifs	create LIF for vserver in defined cifs network with failover-group	-
0208	0023	Create and configure CIFS vservers	Networking	network routing-groups show	show routing groups	-
0209	0023	Create and configure CIFS vservers	Networking	network routing-groups route create -vserver VSERVERNAME -routing-group ROUTINGGROUP -destination 0.0.0.0/0 -gateway IP	sets default gateway for vserver	-
0210	0023	Create and configure CIFS vservers	Networking	network routing-groups route show	show default gateways	-
0211	0023	Create and configure CIFS vservers	vserver	vserver modify -vserver VSERVERNAME -disallowed-protocols nfs, fcp, iscsi	disallow all other protocolls than cifs	-
0212	0023	Create and configure CIFS vservers	vserver	vserver show -vserver VSERVERNAME	show vserver configuration	-
0213	0023	Create and configure CIFS vservers	DNS	vserver services dns create -vserver VSERVERNAME -domains DOMAIN -state enabled -name-servers IP1, IP2	configures name servers for cifs vserver	-
0214	0023	Create and configure CIFS vservers	DNS	vserver services dns show	shows dns settings of all vservers	-
0215	0023	Create and configure CIFS vservers	DNS	network ping -lif cifs -lif-owner VSERVERNAME -destination DNSSERVERIP	pings DNS server over cifs LIF	you need to manually create a DNS entry for your vserver LIFs
0216	0023	Create and configure CIFS vservers	CIFS	vserver cifs create -vserver VSERVERNAME -cifs-server VSERVERNAME -domain DOMAIN	start cifs in vserver, adds vserver to Active Directory (OU Computers)	-
0217	0023	Create and configure CIFS vservers	CIFS	vserver cifs show	shows cifs status of vservers	-
0218	0023	Create and configure CIFS vservers	CIFS	cifs domain discovered-servers show	shows all discovered dcs	-
0219	0023	Create and configure CIFS vservers	CIFS	cifs domain preferred-dc show	shows preferred dcs	you can set a prevered dc if needed, default: no dc set
0220	0023	Create and configure CIFS vservers	Control	users-and-groups local-user show	shows local users	in activated CIFS vservers is a default User VSERVER\Administrator
0221	0023	Create and configure CIFS vservers	Control	users-and-groups local-group show-members -vserver VSERVERNAME -group-name BUILTIN\Administrators	shows users in local administrators group	-
0222	0023	Create and configure CIFS vservers	Control	users-and-groups local-user set-password -user-name VSERVERNAME\Administrator	sets password for local admin in vserver	-

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CLI Nr.	Task Nr.	Task	Category	Command	Description	Notice
0223	0023	Create and configure CIFS vservers	Volumes	volume create -volume VOLNAME -aggregate AGGRNAME -size SIZE -vserver VSERVER -security-style ntfs -space-guarantee none -percent-snapshot-space 20 -snapshot-policy default -junction-path /VOLNAME	create thinprovisioned volume with default snapshots, snapshot reserve	-
0224	0023	Create and configure CIFS vservers	Volumes	volume show -junction	show junctions	-
0225	0023	Create and configure CIFS vservers	Storage Efficiency	volume efficiency on -volume VOLNAME -vserver VSERVERNAME	activate dedup on volume	-
0226	0023	Create and configure CIFS vservers	Storage Efficiency	volume efficiency start -vserver VSERVERNAME -volume VOLNAME -scan-old-data true	start dedup job for volume	default: false
0227	0023	Create and configure CIFS vservers	Storage Efficiency	volume efficiency modify -vserver VSERVERNAME -volume VOLNAME -compression true	enables compression on the volume	default: false
0228	0023	Create and configure CIFS vservers	Storage Efficiency	volume efficiency modify -vserver VSERVERNAME -volume VOLNAME -inline-compression true	enables inline compression on the volume	-
0229	0023	Create and configure CIFS vservers	Storage Efficiency	volume efficiency modify -vserver VSERVERNAME -volume VOLNAME -policy POLICYNAME	configure a Storage Efficiency policy to the volume	-
0230	0023	Create and configure CIFS vservers	Storage Efficiency	volume efficiency policy show -vserver VSERVERNAME	shows Storage Efficiency policy on the volume	-
0231	0023	Create and configure CIFS vservers	Storage Efficiency	df -S -h	shows space savings	-
0232	0023	Create and configure CIFS vservers	Qtree	qtree create -vserver VSERVERNAME -volume VOLNAME -qtree QTREENAME -security-style ntfs	creates qtree within the volume	-
0233	0023	Create and configure CIFS vservers	Qtree	qtree show	show qtrees	-
0234	0023	Create and configure CIFS vservers	Shares	cifs share show	lists cifs shares of vserver	default shares: c\$ with path /
0235	0023	Create and configure CIFS vservers	Shares	cifs share create -share-name SHARENAME\$ -path /JUNCTION/QTREENAME -share-properties access-based-enumeration	creates a share with enabled access based enumeration	-
0236	0023	Create and configure CIFS vservers	Shares	cifs share access-control show -vserver VSERVERNAME	shows access settings for shares on vserver	-
0237	0023	Create and configure CIFS vservers	Shares	cifs share access-control create -vserver VSERVERNAME -share SHARENAME -user-or-group "DOMAIN\GROUP" -permission Full_Control	add additional permissions to a share	-
0238	0023	Create and configure CIFS vservers	Shares	cifs share access-control modify -vserver VSERVERNAME -share SHARENAME -user-or-group "DOMAIN\GROUP" -permission Read	set another permission level for an existing group	-
0239	0023	Create and configure CIFS vservers	Shares	cifs share access-control delete -vserver VSERVERNAME -share SHARENAME -user-or-group Everyone	removes access for everyone from share	-
0240	0023	Create and configure CIFS vservers	Quota	volume quota policy rule create -vserver VSERVERNAME -volume VOLNAME -policy-name default -type tree -target QTREENAME -disk-limit SIZE -soft-disk-limit SIZE -threshold SIZE	set hard, soft and threshold quota value for a qtree	that new rules become active you have to do a "volume quota off" and a "volume quota on"
0241	0023	Create and configure CIFS vservers	Quota	volume quota policy rule modify -vserver VSERVERNAME -volume VOLNAME -policy-name default -type tree -target QTREENAME -disk-limit SIZE -soft-disk-limit SIZE -threshold SIZE	change hard, soft and threshold quota value for a qtree	that new rules become active you have to do a "volume quota off" and a "volume quota on"
0242	0023	Create and configure CIFS vservers	Quota	volume quota policy rule create -vserver VSERVERNAME -volume VOLNAME -policy-name default -type user -target "" -qtree QTREENAME -disk-limit SIZE	sets a user quota that all users have a space limit on the qtree	that new rules become active you have to do a "volume quota off" and a "volume quota on"
0243	0023	Create and configure CIFS vservers	Quota	volume quota policy rule create -vserver VSERVERNAME -policy-name default -volume VOLNAME -type user -target "DOMAIN\USER" -qtree QTREENAME -disk-limit SIZE	specifies a space limit for the specified user on the qtree	that new rules become active you have to do a "volume quota off" and a "volume quota on"
0244	0023	Create and configure CIFS vservers	Quota	volume quota policy rule show -vserver VSERVERNAME	shows quota settings	-
0245	0023	Create and configure CIFS vservers	Quota	volume quota on -vserver VSERVERNAME -volume VOLNAME -foreground true	enables quota management on volume	the "default" policy
0246	0023	Create and configure CIFS vservers	Quota	volume quota show	shows state of quota management	-
0247	0023	Create and configure CIFS vservers	Quota	volume quota report	shows active quotas	-
0248	0023	Create and configure CIFS vservers	AntiVirus	vscan scanner-pool create -vserver VSERVERNAME -scanner-pool POOLNAME_PRIM -servers SCANSERVERIP -privileged-users DOMAIN\SERVICEUSER	adds a AV scanner into primary scanner pool	-
0249	0023	Create and configure CIFS vservers	AntiVirus	vserver vscan scanner-pool apply-policy -vserver VSERVERNAME -scanner-pool POOLNAME_PRIM -scanner-policy primary	adds primary scanner pool to the policy	-
0250	0023	Create and configure CIFS vservers	AntiVirus	vscan scanner-pool create -vserver VSERVERNAME -scanner-pool POOLNAME_SEC -servers SCANSERVERIP -privileged-users DOMAIN\SERVICEUSER	adds a AV scanner into secondary scanner pool	-
0251	0023	Create and configure CIFS vservers	AntiVirus	vserver vscan scanner-pool apply-policy -vserver VSERVERNAME -scanner-pool POOLNAME_SEC -scanner-policy secondary	adds secondary scanner pool to the policy	-
0252	0023	Create and configure CIFS vservers	AntiVirus	vserver vscan enable -vserver VSERVERNAME	enables vscan on the vserver	-
0253	0023	Create and configure CIFS vservers	AntiVirus	vserver vscan scanner-pool show	shows current scan server settings	-
0254	0023	Create and configure CIFS vservers	AntiVirus	vserver cifs users-and-groups local-group add-member -group-name "BUILTIN\Backup Operators" -member-names DOMAIN\SERVICEUSER -vserver VSERVERNAME	adds the service user to the local backup operators group	needed that the external AV scan server service user can access the cifs files
0255	0023	Create and configure CIFS vservers	AntiVirus	vserver vscan show	is vscan on / off?	-
0256	0023	Create and configure CIFS vservers	AntiVirus	vserver vscan connection-status show all	are the scan servers connected?	-
0257	0024	Configure NDMP	NDMP	system services ndmp node-scope-mode on	possibility to backup data from the hardware	if you want to backup the data vserver aware, this setting must be disabled (default: off)
0258	0024	Configure NDMP	NDMP	system services ndmp on -node *	enable NDMP on every node	-
0259	0024	Configure NDMP	NDMP	system services ndmp show	shows NDMP state	-
0260	0024	Configure NDMP	NDMP	system node hardware tape drive show	shows connected tape drives	-
0261	0024	Configure NDMP	NDMP	system node hardware tape library show	shows connected tape libraries	-
0262	0025	FlexClone handling	FlexClone	volume clone create -vserver VSERVERNAME -flexclone VOLNAME_clone -type RW -parent-volume VOLNAME -junction-active true -foreground true -parent-snapshot SNAPNAME -junction-path /VOLNAME_clone -space-guarantee none	creates a FlexClone from the snapshot of the volume	-
0263	0025	FlexClone handling	FlexClone	volume clone show	shows actual FlexClones	-
0264	0025	FlexClone handling	FlexClone	volume clone split start -vserver VSERVERNAME -flexclone VOLNAME_clone -foreground true	splits the FlexClone and fills up the "new" volume	-
0265	0025	FlexClone handling	FlexClone	volume clone split status	status of the FlexClone split procedure	-
0266	0025	FlexClone handling	Volumes	volume offline VOLNAME -vserver VSERVERNAME -force true	offlines a volume or FlexClone volume	-
0267	0025	FlexClone handling	Volumes	volume destroy -vserver VSERVERNAME -volume VOLNAME -force true	destroys a volume or a FlexClone volume	-
0268	0026	Basic configuration SnapMirror & SnapVault	Networking	network interface create -vserver NODE1 -lif ic1_NODE1 -role intercluster -home-node NODE1 -home-port e0d -address IP -netmask NETMASK	creates a cluster interconnect LIF	-
0269	0026	Basic configuration SnapMirror & SnapVault	Networking	network interface create -vserver NODE1 -lif ic2_NODE1 -role intercluster -home-node NODE1 -home-port e0f -address IP -netmask NETMASK	creates a second cluster interconnect LIF for redundancy	-
0270	0026	Basic configuration SnapMirror & SnapVault	Networking	network interface create -vserver NODE2 -lif ic1_NODE2 -role intercluster -home-node NODE2 -home-port e0d -address IP -netmask NETMASK	creates a cluster interconnect LIF	-
0271	0026	Basic configuration SnapMirror & SnapVault	Networking	network interface create -vserver NODE2 -lif ic2_NODE2 -role intercluster -home-node NODE2 -home-port e0f -address IP -netmask NETMASK	creates a second cluster interconnect LIF for redundancy	repeat these steps for every node in both clusters (source and destination cluster)
0272	0026	Basic configuration SnapMirror & SnapVault	Cluster	cluster peer create -peer-addr ONEIPOFDESTINATIONCLUSTERCLIF -username admin	peers the source and destination cluster	just one IP needed for peering process
0273	0026	Basic configuration SnapMirror & SnapVault	vserver	vserver peer create -vserver SOURCEVSERVER -peer-vserver DESTVSERVER -applications snapmirror -peer-cluster DESTCLUSTER	peers the source and destination vserver	vservers must have different names, execute on source
0274	0026	Basic configuration SnapMirror & SnapVault	vserver	vserver peer accept -vserver DESTVSERVER -peer-vserver SOURCEVSERVER -peer-cluster SOURCECLUSTER	accepts the request for peering from source vserver	execute on destination
0275	0026	Basic configuration SnapMirror & SnapVault	Volumes	volume create -vserver DESTVSERVER -volume NAMEOFSECONDARYVOL -aggregate DESTAGGR -size SIZE -type DP -space-guarantee none	creates destination volume, marked as data protection volume	execute on destination
0276	0027	Configure SnapMirror	SnapMirror	snapmirror create -source-path SOURCEVSERVER:SOURCEVOL -destination-path DESTVSERVER:DESTVOL -type DP	create snapmirror relationship	execute on destination

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CLI Nr.	Task Nr.	Task	Category	Command	Description	Notice
0277	0027	Configure SnapMirror	SnapMirror	snapmirror show snapmirror list-destinations	shows actual snapmirror and snapvault status	execute on dr site execute on source
0278	0027	Configure SnapMirror	SnapMirror	snapmirror initialize -destination-path DESTVSERVER:DESTVOL	initial transfer of source volume to destination site	execute on destination
0279	0027	Configure SnapMirror	Jobs	job schedule cron create -name snapmirror_at_0000 -minute 0 -hour 0 -dayofweek *	create a job schedule for snapmirror transfers	execute on destination
0280	0027	Configure SnapMirror	SnapMirror	snapmirror modify -destination-path DESTVSERVER:DESTVOL -schedule snapmirror_at_0000	link created job schedule into snapmirror relationship	execute on destination
0281	0027	Configure SnapMirror	SnapMirror	snapmirror update -destination-path DESTVSERVER:DESTVOL	manually updates the destination volume	execute on destination
0282	0028	Configure SnapVault	SnapVault	snapmirror policy create -vserver DESTVSERVER -policy snapvault_destination	creates a snapvault policy on destination "snapvault_destination"	execute on destination
0283	0028	Configure SnapVault	SnapVault	snapmirror policy add-rule -vserver DESTVSERVER -policy snapvault_destination -snapmirror-label daily -keep 24	set retention for daily transfers	execute on destination, primary snapshot policy needs to have snapmirror labels configured
0284	0028	Configure SnapVault	SnapVault	snapmirror policy add-rule -vserver DESTVSERVER -policy snapvault_destination -snapmirror-label weekly -keep 4	set retention for weekly transfers	execute on destination, primary snapshot policy needs to have snapmirror labels configured
0285	0028	Configure SnapVault	SnapVault	snapmirror create -source-path SOURCEVSERVER:SOURCEVOL DESTVSERVER:DESTVOL -type XDP -policy snapvault_destination	create snapvault relationship	execute on destination
0286	0028	Configure SnapVault	SnapVault	snapmirror initialize -destination-path DESTVSERVER:DESTVOL	initial transfer of source volume to destination site	execute on destination
0287	0028	Configure SnapVault	SnapVault	snapmirror show snapmirror list-destinations	shows actual snapvault and snapmirror status	execute on dr site execute on source
0288	0028	Configure SnapVault	SnapVault	job schedule cron create -name snapvault_transfer -minute 0 -hour 0 -dayofweek *	create a transport schedule for snapvault transfers	execute on destination
0289	0028	Configure SnapVault	SnapVault	snapmirror modify -destination-path DESTVSERVER:DESTVOL -schedule snapvault_transfer	link created job schedule into snapvault relationship	execute on destination
0290	0028	Configure SnapVault	SnapVault	snapmirror update -destination-path DESTVSERVER:DESTVOL	manually updates the destination volume	execute on destination
0291	0029	Basic troubleshooting	Troubleshooting	event log show	shows events / messages	newest messages on top
0292	0029	Basic troubleshooting	Troubleshooting	debug log show	shows debug events / messages	in diag mode, newest messages on top
0293	0029	Basic troubleshooting	Troubleshooting	system node show	shows model and runtime of nodes	-
0294	0029	Basic troubleshooting	Troubleshooting	cluster show	shows basic health of nodes in cluster	-
0295	0029	Basic troubleshooting	Troubleshooting	cluster ping-cluster -node SOURCEVSERVER	checks backend connectivity of nodes	-
0296	0030	Ontap Upgrade	Upgrade	system image update -node * -setdefault true -package http://URL/ONTAPIMAGE.tgz	installs specified ontap image on all nodes	-
0297	0030	Ontap Upgrade	Upgrade	storage failover show	shows ha pairs and state	-
0298	0030	Ontap Upgrade	Upgrade	storage failover takeover -ofnode HAPARTNER	node where the command is executed "catches" the partner	-
0299	0030	Ontap Upgrade	Upgrade	storage failover giveback -ofnode HAPARTNER	node where the command is executed gives back the partnernode to his original hardware	-
0300	0030	Ontap Upgrade	Upgrade	system image show	shows installed ontap version	-



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