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ESXCLI Commands

7.0.0

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esxcli network Commands

Command	Description	Options Help
		--count | -c Specify the number of packets to send. **--debug | -D** VMKPing debug mode. **--df | -d** Set DF bit on IPv4 packets. **--host | -H** Specify the host to send packets to. This parameter is required when not executing ping in debug mode (-D) **--interface | -I** Specify the outgoing interface. **--interval | -i** Set the interval for sending packets in seconds. **--ipv4** Ping with ICMPv4 echo requests. **--ipv6** Ping with ICMPv6 echo requests. **--netstack** Specify the TCP/IP netstack which the interface resides on **--nexthop | -N** Override the system's default route selection, in dotted quad notation. (IPv4 only. Requires interface option) **--size | -s** Set the payload size of the packets to send. **--ttl | -t** Set IPv4 Time To Live or IPv6 Hop Limit **--wait | -W** Set the timeout to wait if no responses are received in seconds. **--help** Show the help message.
network diag ping	Send ICMP echo requests to network hosts.	
network ens lcore add	Create ENS context.	**--lcore-id | -l** ENS context id to be created. (required) **--help** Show the help message.
network ens lcore list	List ENS contexts.	**--help** Show the help message.
network ens lcore remove	Destroy ENS context.	**--lcore-id | -l** ENS context id to be destroyed. (required) **--help** Show the help message.
network ens lcore affinity get	Get the affinity for given ENS context.	**--lcore-id | -l** ENS context id. (required) **--help** Show the help message.
network ens lcore affinity set	Set affinity for given ENS context.	**--affinity | -a** Numa node affinity. (required) **--lcore-id | -l** ENS context id. (required) **--help** Show the help message.
network ens lcore switch add	Associate given ENS context with given switch.	**--lcore-id | -l** ENS context id. (required) **--switch | -s** Switch name. (required) **--help** Show the help message.
network ens lcore switch get	Get the switch associated with given ENS context.	**--lcore-id | -l** ENS context id. (required) **--help**

		Show the help message.
network ens lcore switch remove	Disassociate given ENS context from virtual switch.	**--lcore-id | -l** ENS context id. (required) **--help** Show the help message.
network ens maxLcores get	Get the maximum number of ENS contexts (lcores).	**--help** Show the help message.
network ens maxLcores set	Set the maximum number of ENS contexts.	**--maxlcores | -n** Number of maximum ENS contexts to be assigned. (required) **--help** Show the help message.
network firewall get	Get the firewall status.	**--help** Show the help message.
network firewall load	Load firewall module and rulesets configuration.	**--help** Show the help message.
network firewall refresh	Load ruleset configuration for firewall.	**--help** Show the help message.
network firewall set	Set firewall enabled status and default action.	**--default-action | -d** Set to true to set defaultaction PASS, set to false to DROP. **--enabled | -e** Set to true to enable the firewall, set to false to disable the firewall. **--help** Show the help message.
network firewall unload	Allow unload firewall module.	**--help** Show the help message.
network firewall ruleset list	List the rulesets in firewall.	**--ruleset-id | -r** List configuration for specfic ruleset **--help** Show the help message.
network firewall ruleset set	Set firewall ruleset status (allowedAll flag and enabled status).	**--allowed-all | -a** Set to true to allowed all ip, set to false to use allowed ip list. **--enabled | -e** Set to true to enable ruleset, set to false to disable it. **--ruleset-id | -r** The label of the ruleset. (required) **--help** Show the help message.
network firewall ruleset allowedip add	Add allowed ip address/range to the ruleset ruleset.	**--ip-address | -i** Allowed ip address/range for the ruleset. (required) **--ruleset-id | -r** The label of the ruleset. (required) **--help** Show the help message.
network firewall ruleset allowedip list	list allowed ip addresses for rulesets.	**--ruleset-id | -r** The label of the ruleset. **--help** Show the help message.
network firewall ruleset allowedip remove	Remove allowed ip address/range from the ruleset.	**--ip-address | -i** Allowed ip address/range for the ruleset. (required) **--ruleset-id | -r** The label of the ruleset. (required) **--help** Show the help message.
network firewall ruleset client add	Add a new client to a firewall ruleset. This enables the firewall ruleset and increments the number of clients using the ruleset.	**--ruleset-id | -r** The label of the ruleset. (required) **--help** Show the help message.
network firewall ruleset client get	Show the number of clients using a firewall ruleset.	**--ruleset-id | -r** The label of the ruleset. (required) **--help** Show the help message.
network firewall ruleset client remove	Remove a client from a firewall ruleset. This decrements the number of clients using the ruleset and if the number reaches zero the ruleset is disabled.	**--ruleset-id | -r** The label of the ruleset. (required) **--help** Show the help message.

network firewall ruleset rule list	List the rules of each ruleset in firewall.	**--ruleset-id | -r** List rules for specfic ruleset **--help** Show the help message.
network ip get	Get global IP settings	**--help** Show the help message.
network ip set	Update global IP settings	**--ipv6-enabled | -e** Enable or disable IPv6 (Reboot Required) **--help** Show the help message.
network ip connection list	List active TCP/IP connections	**--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--type | -t** Connection type : [ip, tcp, udp, all] **--help** Show the help message.
network ip dns search add	Add a search domain to the list of domains to be searched when trying to resolve an host name on the ESXi host.	**--domain | -d** The string name of a domain to add to the list of search domains. (required) **--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--help** Show the help message.
network ip dns search list	List the search domains currently configured on the ESXi host in the order in which they will be used when searching.	**--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--help** Show the help message.
network ip dns search remove	Remove a search domain from the list of domains to be searched when trying to resolve an host name on the ESXi host.	**--domain | -d** The string name of a domain to remove from the list of search domains. (required) **--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--help** Show the help message.
network ip dns server add	Add a new DNS server to the end of the list of DNS servers to use for this ESXi host.	**--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--server | -s** The IP address (v4 or v6) of the DNS server to add to the DNS server list. (required) **--help** Show the help message.
network ip dns server list	Print a list of the DNS server currently configured on the system in the order in which they will be used.	**--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--help** Show the help message.
network ip dns server remove	Remove a DNS server from the list of DNS servers to use for this ESXi host.	**--all | -a** **--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--server | -s** **--help** Show the help message.
network ip interface add	Add a new VMkernel network interface.	**--dvport-id | -P** DVPort ID of the connection point. This requires --dvs-name to be given in the same command **--dvs-name | -s** DVSwitch name of the connection point. This requires --dvport-id to be given in the same command **--interface-name | -i** The name of the VMkernel network interface to create. This name must be in the form vmkX, where X is a number 0-255 **--mac-address | -M** Set the MAC address for the newly created VMkernel network interface. **--mtu | -m** Set the MTU setting for a given VMkernel network interface on creation **--netstack | -N**

		The network stack instance; if unspecified, use the default netstack instance **--num-rxqueue | -R** Set the number of RX dispatch queues for a given VMkernel network interface on creation **--portgroup-name | -p** The name of the vswitch port group to add this VMkernel network interface to. **--help** Show the help message.
`network ip interface list`	This command will list the VMkernel network interfaces currently known to the system.	**--netstack | -N** The network stack instance; if unspecified, consider all netstack instances **--help** Show the help message.
`network ip interface remove`	Remove a VMkernel network interface from the ESXi host. A VMKernel network interface can be uniquely specified by --interface-name or --portgroup-name or --dvs-name/--dvport-id. i.e. Providing its name or its connection point are two ways to uniquely specify a VMKernel network interface.	**--dvport-id | -P** DVPort ID of the connection point. This requires --dvs-name to be given in the same command **--dvs-name | -s** DVSwitch name of the connection point. This requires --dvport-id to be given in the same command **--interface-name | -i** The name of the VMkernel network interface to remove. This name must be in the form vmkX, where X is a number 0-255 **--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--portgroup-name | -p** The name of the vswitch port group to delete this VMkernel network interface from. **--help** Show the help message.
`network ip interface set`	This command sets the enabled status and MTU size of a given IP interface	**--enabled | -e** Set to true to enable the interface, set to false to disable it. **--interface-name | -i** The name of the interface to apply the configurations. (required) **--mtu | -m** The MTU size of the IP interface. **--help** Show the help message.
`network ip interface ipv4 get`	List the IPv4 addresses assigned to VMkernel network interfaces.	**--interface-name | -i** The name of the VMkernel network interface to limit the output of this command to. **--netstack | -N** The network stack instance; if unspecified, consider all netstack instances **--help** Show the help message.
`network ip interface ipv4 set`	Configure IPv4 setting for a given VMkernel network interface.	**--gateway | -g** The default gateway for this interface. The value must be a valid IPv4 address. Gateway would be reset if not provided **--interface-name | -i** The name of the VMkernel network interface to set IPv4 settings for. This name must be an interface listed in the interface list command. (required) **--ipv4 | -I** The static IPv4 address for this interface. **--netmask | -N** The static IPv4 netmask for this interface. **--peer-dns | -P** A boolean value to indicate if the system should use the DNS settings published via DHCPv4 for this interface. **--type | -t** IPv4 Address type : dhcp: Use DHCP to aquire IPv4 setting for this interface. none: Remove IPv4 settings form this interface. static: Set Static IPv4 information for this interface. Requires --ipv4 and --netmask options. **--help** Show the help message.
`network ip interface ipv4 address list`	List the IPv4 addresses assigned to VMkernel network interfaces.	**--interface-name | -i** The name of the VMkernel network interface to limit the output of this command to. **--netstack | -N** The network stack instance; if unspecified, consider all netstack instances **--help** Show the help message.
`network ip interface ipv6`	Get IPv6 settings for VMkernel network interfaces. This does not include the IPv6 addresses which can	**--interface-name | -n** The name of the VMkernel network interface to limit the output of this command to.

get	be found in the "address list" command.	**--netstack | -N** The network stack instance; if unspecified, consider all netstack instances **--help** Show the help message.
network ip interface ipv6 set	Configure IPv6 settings for a given VMkernel network interface.	**--enable-dhcpv6 | -d** Setting this value to true will enable DHCPv6 on this interface and attempt to aquire an IPv6 address from the network **--enable-ipv6 | -e** Setting this value to true enables IPv6 on thisinterface while setting it to false disables IPv6 on this interface. **--enable-router-adv | -r** Setting this value to true will enable IPv6 Router Advertised IPv6 addresses to be added to this interface from any routers broadcasting on the local network. **--gateway | -g** A default gateway for this interface. The value must be a valid IPv6 address. **--interface-name | -i** The name of the VMkernel network interface to set IPv6 settings for. This name must be an interface listed in the interface list command. (required) **--peer-dns | -P** A boolean value to indicate if the system should use the DNS settings published via DHCPv6 for this interface. **--help** Show the help message.
network ip interface ipv6 address add	Add a static IPv6 address to a given VMkernel network interface.	**--interface-name | -i** The name of the VMkernel network interface to add a static IPv6 address to. This name must be an interface listed in the interface list command. (required) **--ipv6 | -I** The IPv6 address to add to the given VMkernel network interface. This must be in X:X:X::/X format (required) **--help** Show the help message.
network ip interface ipv6 address list	This command will list all of the IPv6 addresses currently assigned to the system	**--interface-name | -i** The name of the VMkernel network interface to limit the output of this command to. **--help** Show the help message.
network ip interface ipv6 address remove	Remove an IPv6 address from a given VMkernel network interface.	**--interface-name | -i** The name of the VMkernel network interface to remove an IPv6 address from. This name must be an interface listed in the interface list command. (required) **--ipv6 | -I** The IPv6 address to remove from the given VMkernel network interface. This must be in X:X:X::/X format (required) **--help** Show the help message.
network ip interface tag add	Adds a tag on a given VMkernel network interface. Supported tags are: Management, VMotion, faultToleranceLogging, vSphereReplication, vSphereReplicationNFC, vSphereProvisioning, VSAN, VSANWitness, vSphereBackupNFC, PrecisionTimeProtocol, VSANReplication	**--interface-name | -i** The name of the VMkernel network interface on which tags should be set. This name must be an interface listed in the interface list command. (required) **--tagname | -t** Tag name to assign to the interface (required) **--help** Show the help message.
network ip interface tag get	Gets the tags set on the given VMkernel network interface.	**--interface-name | -i** Name of vmknic whose tags are to be read (required) **--help** Show the help message.
network ip interface tag remove	Removes a tag on a given VMkernel network interface.	**--interface-name | -i** The name of the VMkernel network interface from which tags should be removed. This name must be an interface listed in the interface list command. (required) **--tagname | -t** Tag name to assign to the interface (required) **--help** Show the help message.
network ip ipsec sa add	Add a Security Association.	**--encryption-algorithm | -e** Encryption algorithm for the Security Association. Should be one in set [null, 3des-cbc, aes128-cbc]. (required) **--encryption-key | -k** Encryption key(ASCII or hex). Length of hex key is dependent upon algorithm used. Required when a encryption algorithm has been specified. **--integrity-algorithm | -i**

		Integrity algorithm for the Security Association. Should be one in set [hmac-sha1, hmac-sha2-256]. (required) **--integrity-key | -K** Integrity key(ASCII or hex). Length of hex key is dependent upon algorithm used. (required) **--sa-destination | -d** Ipv6 address of Security Association destination. Can be specified as 'any' or a correct IPv6 address. (required) **--sa-mode | -m** Security Association mode. Should be one in set [transport, tunnel]. **--sa-name | -n** Name for the Security Association to be added. (required) **--sa-source | -s** Ipv6 address of Security Association source. Can be specified as 'any' or a correct IPv6 address. (required) **--sa-spi | -p** SPI value for the Security Association(hex). (required) **--help** Show the help message.
network ip ipsec sa list	List configured Security Associations	**--help** Show the help message.
network ip ipsec sa remove	Operation to remove Security Association(s)	**--remove-all | -a** Set to remove all Security Associations. **--sa-destination | -d** Ipv6 address of Security Association destination. This option needs to be specified when removing an auto SA. **--sa-name | -n** Name for the Security Association to be removed. Specify 'auto' to remove an auto SA. **--sa-source | -s** Ipv6 address of Security Association source. This option needs to be specified when removing an auto SA. **--sa-spi | -p** SPI value for the Security Association (hex). This option needs to be specified when removing an auto SA **--help** Show the help message.
network ip ipsec sp add	Add a Security Policy.	**--action | -A** Action for Security Policy. Should be one in set [none, discard, ipsec]. **--destination-port | -P** Destination Port for Security Policy. '0' stands for 'any' (required) **--flow-direction | -w** Flow direction for Security Policy. Should be one in set [in, out]. **--sa-name | -a** Name for the Security Association. Not being Specified lets vmkernel automatically choose an Security Association. If no applicable Security Association exists, then vmkernel may request one using IKE. **--source-port | -p** Source Port for Security Policy. '0' stands for 'any' (required) **--sp-destination | -d** Ipv6 address and prefix length of Security Policy destination. Can be specified as 'any' or a correct Ipv6 network address. (required) **--sp-mode | -m** Security Policy mode. Should be one in set [transport, tunnel]. **--sp-name | -n** Name for the Security Policy to be added. (required) **--sp-source | -s** Ipv6 address and prefix length of Security Policy source. Can be specified as 'any' or a correct IPv6 network address. (required) **--upper-layer-protocol | -u** Upper layer protocol for Security Policy, Should be one in set [any, tcp, udp, icmp6]. **--help** Show the help message.
network ip ipsec sp list	List configured Security Policys	**--help** Show the help message.
network ip ipsec sp remove	Operation to remove Security Policy	**--remove-all | -a** Set to remove all Security Policys **--sp-name | -n** Name for the Security Policy to be removed. **--help** Show the help message.
network ip neighbor list	List ARP table entries	**--interface-name | -i** The name of the VMkernel network interface to limit the output of this command to; if unspecified, list neighbors on all interfaces. **--netstack | -N**

		The network stack instance; if unspecified, use the default netstack instance **--version | -v** IP version : [4, 6, all] **--help** Show the help message.
network ip neighbor remove	Remove ARP table entries	**--interface-name | -i** The name of the VMkernel network interface to remove the neighbor entry from. If not specified, neighbor will be removed from all interfaces **--neighbor-addr | -a** The IPv4/IPv6 address of the neighbor. (required) **--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--version | -v** IP version : [4, 6] (required) **--help** Show the help message.
network ip netstack add	Add a new Netstack Instance.	**--disabled | -d** Create the netstack instance only in config i.e. in disabled state. Does not create in kernel. **--netstack | -N** The network stack instance (required) **--help** Show the help message.
network ip netstack get	Get runtime/configuration settings for a given Netstack Instance.	**--netstack | -N** The network stack instance (required) **--help** Show the help message.
network ip netstack list	This command will list the VMkernel Netstack instances currently known to the system.	**--help** Show the help message.
network ip netstack remove	Remove a new Netstack Instance.	**--netstack | -N** The network stack instance (required) **--help** Show the help message.
network ip netstack set	Configure settings for a given Netstack Instance.	**--ccalgo | -c** The TCP Congestion Contol Algorithm for this netstack instance (not applied to existing connections).: cubic: Set cubic as the algorithm dctcp: Set dctcp as the algorithm newreno: Set newreno as the algorithm **--ecn** The status of ECN (Explicit Congestion Notification). disabled: Completely disable ECN functionality echo-only: Only echoing ECN, won't initiate enabled: Fully enable ECN functionality **--enable | -e** Enable the netstack instance (create in kernel) **--ipv6enabled | -i** To enable IPv6 for this netstack instance (aplied only during netstack creation). **--maxconn | -m** The maximum number of connections for this netstack instance (applied only during netstack creation). **--name | -n** The name for this netstack instance. **--netstack | -N** The network stack instance. This name must be an interface listed in the netstack list command. (required) **--help** Show the help message.
network ip route ipv4 add	Add IPv4 route to the VMkernel.	**--gateway | -g** The Ipv4 address of the gateway through which a route to be added. (required) **--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--network | -n** The Ipv4 address and prefix length of the network to add the route to. Specify 'default' to indicate the default network. (required) **--help** Show the help message.
network ip route ipv4 list	List configured IPv4 routes	**--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--help** Show the help message.

network ip route ipv4 remove	Remove IPv4 route	**--gateway | -g** The Ipv4 address of the gateway through which a route to be removed (required) **--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--network | -n** The Ipv4 address and prefix length of the network to remove the route from. Specify 'default' to indicate the default network. (required) **--help** Show the help message.
network ip route ipv6 add	Add IPv6 route to the VMkernel.	**--gateway | -g** The Ipv6 address of the gateway through which a route to be added. (required) **--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--network | -n** The Ipv6 address and prefix length of the network to add the route to. Specify 'default' to indicate the default network. (required) **--help** Show the help message.
network ip route ipv6 list	List configured IPv6 routes	**--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--help** Show the help message.
network ip route ipv6 remove	Remove IPv6 route from the VMkernel	**--gateway | -g** The Ipv6 address of the gateway through which a route to be removed (required) **--netstack | -N** The network stack instance; if unspecified, use the default netstack instance **--network | -n** The Ipv6 address and prefix length of the network to remove the route from. Specify 'default' to indicate the default network. (required) **--help** Show the help message.
network multicast group list	List all the multicast group members.	**--help** Show the help message.
network nic down	Bring down the specified network device.	**--nic-name | -n** The name of the NIC to configured. This must be one of the cards listed in the nic list command. (required) **--help** Show the help message.
network nic get	Get the generic configuration of a network device	**--nic-name | -n** The name of the NIC to configured. This must be one of the cards listed in the nic list command. (required) **--help** Show the help message.
network nic list	This command will list the Physical NICs currently installed and loaded on the system.	**--help** Show the help message.
network nic set	Set the general options for the specified ethernet device.	**--auto | -a** Set the speed and duplexity settings to autonegotiate. **--duplex | -D** The duplex to set this NIC to. Acceptable values are : [full, half] **--message-level | -l** Sets the driver message level. Meaning differ per driver. **--nic-name | -n** The name of the NIC to configured. This must be one of the cards listed in the nic list command. (required) **--phy-address | -P** Set the PHY address of the device **--port | -p** Selects device port. Available device ports are aui: Select AUI (Attachment Unit Interface) as the device port backplane: Select Backplane as the device port bnc: Select BNC (Bayonet Neill-Concelman) as the device port da: Select DA (Direct Attach copper) as the device port fibre: Select fibre as the device port mii: Select MII (Media Independent Interface) as the device port tp: Select TP (Twisted Pair) as the device port **--speed | -S** The speed to set this NIC to, in Mbps. Acceptable values are : [10, 100, 1000, 2500, 5000, 10000, 20000, 25000, 40000, 50000, 56000, 100000, 200000, 400000] **--transceiver-type | -t**

		Selects transeiver type. Currently only internal and external can be specified, in the future future types might be added. Available transeiver types are external: Set the transceiver type to external internal: Set the transceiver type to internal **--virtual-address | -V** Set the virtual address of the device **--wake-on-lan | -w** Sets Wake-on-LAN options. Not all devices support this. The argument to this option is a string of characters specifying which options to enable. p Wake on phy activity u Wake on unicast messages m Wake on multicast messages b Wake on broadcast messages a Wake on ARP g Wake on MagicPacket(tm) s Enable SecureOn(tm) password for MagicPacket(tm) **--help** Show the help message.
network nic up	Bring up the specified network device.	**--nic-name | -n** The name of the NIC to configured. This must be one of the cards listed in the nic list command. (required) **--help** Show the help message.
network nic attachment add	Attach one uplink as a branch to a trunk uplink with specified VLAN ID.	**--branch | -b** The name of the NIC to be attached as branch uplink. (required) **--trunk | -t** The name of the NIC to be configured as trunk uplink. (required) **--vlan-id | -v** The vlan ID for the branch uplink. Valid values: integer in the range 1-4094 (required) **--help** Show the help message.
network nic attachment list	Show uplink attachment information.	**--trunk | -t** Show information only for the specified NIC. **--help** Show the help message.
network nic attachment remove	Detach a branch uplink from its trunk.	**--branch | -b** The name of the branch uplink. (required) **--trunk | -t** The name of the trunk uplink. (required) **--help** Show the help message.
network nic coalesce get	Get coalesce parameters	**--vmnic | -n** The name of pnic to get coalesce parameters **--help** Show the help message.
network nic coalesce set	Set coalesce parameters on a nic	**--adaptive-rx | -a** enable or disable adaptive RX algorithm in driver. **--adaptive-tx | -A** enable or disable adaptive TX algorithm in driver. **--rx-max-frames | -R** Maximum number of RX frames driver to process before interrupting. **--rx-usecs | -r** Number of microseconds driver to wait for RX before interrupting. **--sample-interval | -i** Packet rate sampling internal in seconds for the adaptive coalescing algorithm in driver. **--tx-max-frames | -T** Maximum number of completed TX frames driver to process before interrupting. **--tx-usecs | -t** Number of microseconds driver to wait for completed TX before interrupting. **--vmnic | -n** Name of vmnic to set coalesce parameters. (required) **--help** Show the help message.
network nic coalesce high get	Get information about the behavior of a NIC when it sends or receives packets at high packet rate.	**--vmnic | -n** The name of the pnic for which information should be retrieved. (required) **--help** Show the help message.
network nic coalesce high set	Set parameters to control the behavior of a NIC when it sends or receives packets at high packet rate.	**--pkt-rate | -p** The high packet rate measured in number of packets per second. When packet rate is above this parameter, the RX/TX coalescing parameters configured by this command are used. **--rx-max-frames | -R** The maximum number of RX packets to delay an RX interrupt after they arrive under high packet rate conditions. **--rx-usecs | -r**

		The number of microseconds to delay an RX interrupt after a packet arrives under high packet rate conditions. **--tx-max-frames | -T** The maximum number of TX packets to delay an TX interrupt after they are sent under high packet rate conditions. **--tx-usecs | -t** The number of microseconds to delay a TX interrupt after a packet is sent under high packet rate conditions. **--vmnic | -n** Name of the vmnic for which parameters should be set. (required) **--help** Show the help message.
network nic coalesce low get	Get information about the behavior of a NIC when it sends or receives packets at low packet rate.	**--vmnic | -n** The name of the pnic for which information should be retrieved. (required) **--help** Show the help message.
network nic coalesce low set	Set parameters to control the behavior of a NIC when it sends or receives packets at low packet rate.	**--pkt-rate | -p** The low packet rate measured in number of packets per second. When packet rate is below this parameter, the RX/TX coalescing parameters configured by this command are used. **--rx-max-frames | -R** The maximum number of RX packets to delay an RX interrupt after they arrive under low packet rate conditions. **--rx-usecs | -r** The number of microseconds to delay an RX interrupt after a packet arrives under low packet rate conditions. **--tx-max-frames | -T** The maximum number of TX packets to delay an TX interrupt after they are sent under low packet rate conditions. **--tx-usecs | -t** The number of microseconds to delay a TX interrupt after a packet is sent under low packet rate conditions. **--vmnic | -n** Name of the vmnic for which parameters should be set. (required) **--help** Show the help message.
network nic cso get	Get checksum offload settings	**--vmnic | -n** The name of pnic to get CSO settings **--help** Show the help message.
network nic cso set	Set checksum offload settings on a nic	**--enable | -e** RX/TX checksum offload (required) **--vmnic | -n** Name of vmnic to set offload settings. (required) **--help** Show the help message.
network nic dcb status get	Get the DCB information for a NIC.	**--nic-name | -n** The name of the NIC for which you need the info. See "nic list" command. (required) **--help** Show the help message.
network nic eeprom change	Change EEPROM on a nic	**--file | -f** File name of new EEPROM content **--magic | -m** Magic key of EEPROM (required) **--offset | -o** Offset of EEPROM to change **--value | -v** New EEPROM value in double word **--vmnic | -n** Name of vmnic to change EEPROM. (required) **--help** Show the help message.
network nic eeprom dump	Dump device EEPROM	**--length | -l** Bytes of EEPROM to dump **--offset | -o** Offset of EEPROM starting to dump **--vmnic | -n** The name of pnic to dump EEPROM (required) **--help** Show the help message.
network nic negotiate restart	Restart N-Way negotiation on a nic	**--vmnic | -n** Name of vmnic to restart negotiation (required) **--help** Show the help message.

network nic pauseParams list	List pause parameters of all NICs	**--nic-name | -n** The name of the NIC whose pause parameters should be retrieved. **--help** Show the help message.
network nic pauseParams set	Set pause parameters for a NIC	**--auto | -a** Enable/disable auto negotiation. **--nic-name | -n** Name of NIC whose pause parameters should be set. (required) **--rx | -r** Enable/disable pause RX flow control. **--tx | -t** Enable/disable pause TX flow control. **--help** Show the help message.
network nic queue count get	Get netqueue count on a nic	**--vmnic | -n** The name of pnic to get netqueue count **--help** Show the help message.
network nic queue count set	Set number of netqueues on a nic	**--num | -q** Number of queues to set. (required) **--rx | -r** Rx netqueue to set count. **--tx | -t** Tx netqueue to set count. **--vmnic | -n** Name of vmnic to set netqueue count. (required) **--help** Show the help message.
network nic queue filterclass list	List the netqueue supported filterclass of all physical NICs currently installed and loaded on the system.	**--help** Show the help message.
network nic queue loadbalancer list	List the load balancer settings of all the installed and loaded physical NICs. (S:supported, U:unsupported, N:not-applicable, A:allowed, D:disallowed).	**--help** Show the help message.
network nic queue loadbalancer set	Enable/disable netqueue load balancer setting on a NIC.	**--dynpoollb** Configure Dynamic queue pool at netqueue load balancer. **--geneveoamlb** Configure Geneve OAM at netqueue load balancer. **--lrolb** Configure Large Receive Offload at netqueue load balancer. **--maclearnlb** Configure Mac learn load balancing at netqueue load balancer. **--rsslb** Configure Receive Side Scaling at netqueue load balancer. **--rxdynlb** Configure RX dynamic load balancing at netqueue load balancer. **--rxqlatency** Configure Rx queue latency at netqueue load balancer. **--rxqnofeat** Configure Rx queue no feature at netqueue load balancer. **--rxqpair** Configure Rx queue pair at netqueue load balancer. **--rxqpreempt** Configure pre-emptible queue at netqueue load balancer. **--vmnic | -n** Name of vmnic to update netqueue load balancer setting. (required) **--help** Show the help message.
network nic queue loadbalancer plugin list	Details of netqueue balancer plugins on all physical NICs currently installed and loaded on the system	**--vmnic | -n** The name of pnic to get netqueue plugin details **--help** Show the help message.
network nic queue loadbalancer plugin set	Enable/disable netqueue balancer plugin on a NIC	**--enable | -e** Netqueue balancer plugin state (required) **--module | -m** Name of netqueue balancer module (required) **--plugin | -p** Name of netqueue balancer plugin (required) **--vmnic | -n** Name of vmnic to change netqueue balancer plugin state (required) **--help**

		Show the help message.
network nic queue loadbalancer state list	Netqueue balancer state of all physical NICs currently installed and loaded on the system	**--vmnic | -n** The name of pnic to get netqueue balancer state **--help** Show the help message.
network nic queue loadbalancer state set	Enable/disable netqueue balancer on a NIC	**--enable | -e** Netqueue balancer state (required) **--vmnic | -n** Name of vmnic to change netqueue balancer state (required) **--help** Show the help message.
network nic register dump	Dump device registers	**--vmnic | -n** The name of pnic to dump registers (required) **--help** Show the help message.
network nic ring current get	Get current RX/TX ring buffer parameters of a NIC	**--nic-name | -n** The name of the NIC whose current RX/TX ring buffer parameters should be retrieved. (required) **--help** Show the help message.
network nic ring current set	Set current RX/TX ring buffer parameters of a NIC	**--nic-name | -n** The name of the NIC whose current RX/TX ring buffer parameters should be set. (required) **--rx | -r** Number of ring entries for the RX ring. **--rx-jumbo | -j** Number of ring entries for the RX jumbo ring. **--rx-mini | -m** Number of ring entries for the RX mini ring. **--tx | -t** Number of ring entries for the TX ring. **--help** Show the help message.
network nic ring preset get	Get preset maximums for RX/TX ring buffer parameters of a NIC.	**--nic-name | -n** The name of the NIC whose preset maximums for RX/TX ring buffer parameters should be retrieved. (required) **--help** Show the help message.
network nic selftest run	Run self test	**--online | -o** Performing limited set of tests do not inetrrupt normal adapter operation, default is offline **--vmnic | -n** The name of pnic to dump EEPROM (required) **--help** Show the help message.
network nic sg get	Get scatter-gather settings	**--vmnic | -n** The name of pnic to get scatter-gather settings **--help** Show the help message.
network nic sg set	Set scatter-gatter settings on a nic	**--enable | -e** Enable/disable sacatter-gather (required) **--vmnic | -n** Name of vmnic to configure scatter-gather settings. (required) **--help** Show the help message.
network nic software list	List software simulation settings of physical NICs currently installed and loaded on the system.	**--vmnic | -n** Limit the output to only the physical NICS with the specified names. **--help** Show the help message.
network nic software set	Enable and disable software simulation settings on a NIC.	**--geneveoffload** Configure Geneve encapsulation offload software simulation. **--highdma** Configure high DMA software simulation. **--ipv4cso** Configure IPv4 checksum offload software simulation. **--ipv4tso** Configure IPv4 TCP segmentation offload software simulation. **--ipv6cso** Configure IPv6 checksum offload software simulation. **--ipv6csoext** Configure IPv6 extend header checksum offload software simulation. **--ipv6tso**

		Configure IPv6 TCP segmentation offload software simulation. **--ipv6tsoext** Configure IPv6 extend header TCP segmentation offload software simulation. **--obo** Configure offset based encapsulation offload software simulation. **--sg** Configure scatter gather software simulation. **--sgsp** Configure scatter gather span multiple pages software simulation. **--tagging** Configure TX VLAN tagging software simulation. **--untagging** Configure RX VLAN untagging software simulation. **--vmnic | -n** Name of the vmnic whose software similation settings should be updated. (required) **--vxlanencap** Configure VXLAN encapsulation offload software simulation. **--help** Show the help message.
network nic stats get	Get NIC statistics for a given interface.	**--nic-name | -n** Name of the NIC to get statistics from. (required) **--help** Show the help message.
network nic tso get	Get TCP segmentation offload settings	**--vmnic | -n** The name of pnic to get TSO settings **--help** Show the help message.
network nic tso set	Set TCP segmentation offload settings on a nic	**--enable | -e** TCP segmentation offload (required) **--vmnic | -n** Name of vmnic to set TSO settings. (required) **--help** Show the help message.
network nic vlan stats get	List VLAN statistics for active VLAN's on the NIC.	**--nic-name | -n** Name of the NIC to get statistics from. (required) **--help** Show the help message.
network nic vlan stats set	Enable/disable VLAN statistics collection on the NIC.	**--enabled | -e** Whether to enable or disable VLAN statistics (required) **--nic-name | -n** Name of the NIC to get statistics from. (required) **--help** Show the help message.
network port filter stats get	Filter statistics for a given port.	**--portid | -p** Port ID for the port to get filter statistics. (required) **--help** Show the help message.
network port stats get	Packet statistics for a given port.	**--portid | -p** Port ID for the port to get statistics. (required) **--help** Show the help message.
network sriovnic list	This command will list the SRIOV Enabled NICs (PFs) currently installed and loaded on the system.	**--help** Show the help message.
network sriovnic vf list	Get the generic configuration of VFs for SRIOV NIC.	**--nic-name | -n** The name of the SRIOV NIC to configured. This must be one of the cards listed in the sriovNic list command. (required) **--help** Show the help message.
network sriovnic vf stats	Get statistics for given VF of a SRIOV NIC.	**--nic-name | -n** The name of the SRIOV NIC. This must be one of the cards listed in the sriovNic list command. (required) **--vf-id | -v** The VF ID of the virtual function whose stats are to be collected. This must be one of the VF IDs listed in the sriovnic vf list command. (required) **--help** Show the help message.
network vm list	List networking information for the VM's that have active ports.	**--help** Show the help message.

network vm port list	List of active ports for a given VM.	**--world-id | -w** World ID of the VM for listing ports. (required) **--help** Show the help message.
network vswitch dvs vmware list	List the VMware vSphere Distributed Switch currently configured on the ESXi host.	**--vds-name | -v** Limit the output of this command to only vDS with the given name. **--help** Show the help message.
network vswitch dvs vmware lacp config get	Get LACP configuration on DVS	**--dvs | -s** The name of DVS to get configuration on **--help** Show the help message.
network vswitch dvs vmware lacp stats get	Get LACP stats on DVS uplinks	**--dvs | -s** The name of DVS to get configuration on **--help** Show the help message.
network vswitch dvs vmware lacp status get	Get LACP status on DVS	**--dvs | -s** The name of DVS to get configuration on **--help** Show the help message.
network vswitch dvs vmware lacp timeout set	Set long/short timeout for vmnics in one LACP LAG	**--lag-id | -l** The ID of LAG to be configured. (required) **--nic-name | -n** The nic name. If it is set, then only this vmnic in the lag will be configured. **--timeout | -t** Set long or short timeout: 1 for short timeout and 0 for long timeout. (required) **--vds | -s** The name of VDS. (required) **--help** Show the help message.
network vswitch standard add	Add a new virtual switch to the ESXi networking system.	**--ports | -P** The number of ports to to give this newly created virtual switch. Maximum ports per virtual switch is 4096. If no value is given the default value(128) is used. The number of ports is limited by the number of already allocated ports on the host. The system wide port count cannot be greater than 4608. **--vswitch-name | -v** The name of the virtual switch to create. (required) **--help** Show the help message.
network vswitch standard list	List the virtual switches current on the ESXi host.	**--vswitch-name | -v** Limit the output of this command to only virtual switches with the given name. **--help** Show the help message.
network vswitch standard remove	Remove a virtual switch from the ESXi networking system.	**--vswitch-name | -v** The name of the virtual switch to remove. (required) **--help** Show the help message.
network vswitch standard set	This command sets the MTU size and CDP status of a given virtual switch.	**--cdp-status | -c** The CDP status of the given virtual switch. It can be 'down', 'listen', 'advertise' or 'both' **--mtu | -m** The MTU size of the given virtual switch. **--vswitch-name | -v** The name of virtual switch to apply the configurations. (required) **--help** Show the help message.
network vswitch standard policy failover get	Get the failover policy settings governing the given virtual switch	**--vswitch-name | -v** The name of the virtual switch to use when fetching the switch failover policy. (required) **--help** Show the help message.
network vswitch standard policy failover set	Configure the Failover policy for a virtual switch.	**--active-uplinks | -a** Configure the list of active adapters and their failover order. This list must be a comma seperated list of values with the uplink name and no spaces. Example: --active-uplinks=vmnic0,vmnic3,vmnic7,vmnic1 **--failback | -b** Configure whether a NIC will be used immediately when it comes back in service after a failover **--failure-detection | -f**

		Set the method of determining how a network outage is detected. beacon: Detect failures based on active beaconing to the vswitch link: Detect failures based on the NIC link state **--load-balancing | -l** Set the load balancing policy for this policy. This can be one of the following options: explicit: Always use the highest order uplink from the list of active adapters which pass failover criteria. iphash: Route based on hashing the src and destination IP addresses mac: Route based on the MAC address of the packet source. portid: Route based on the originating virtual port ID. **--notify-switches | -n** Indicate whether to send a notification to physical switches on failover **--standby-uplinks | -s** Configure the list of standby adapters and their failover order. This list must be a comma seperated list of values with the uplink name and no spaces. Example: --standby-uplinks=vmnic2,vmnic4,vmnic8,vmnic6,vmnic11 **--vswitch-name | -v** The name of the virtual switch to use when configuring the switch failover policy. (required) **--help** Show the help message.
network vswitch standard policy security get	Get the Security Policy governing the given virtual switch.	**--vswitch-name | -v** The name of the virtual switch to use when fetching the network security policy. (required) **--help** Show the help message.
network vswitch standard policy security set	Set the security policy for a given virtual switch	**--allow-forged-transmits | -f** Allow ports on the virtual switch to send packets with forged source information. **--allow-mac-change | -m** Allow ports on the virtual switch to change their MAC address. **--allow-promiscuous | -p** Allow ports on the virtual switch to enter promiscuous mode. **--vswitch-name | -v** The name of the virtual switch to use when setting the switch security policy. (required) **--help** Show the help message.
network vswitch standard policy shaping get	Get the shaping policy settings for the given virtual switch	**--vswitch-name | -v** The name of the virtual switch to use when fetching the switch shaping policy. (required) **--help** Show the help message.
network vswitch standard policy shaping set	Set the shaping policy settings for the given virtual switch	**--avg-bandwidth | -b** The averge bandwidth allowed for this shaping policy. This value is in Kbps (1 Kbps = 1000 bits/s) **--burst-size | -t** The largest burst size allowed for this shaping policy. This value is in Kib (1 Kib = 1024 bits) **--enabled | -e** Indicate whether to enable traffic shaping on this policy. If this is true then the --avg-bandwidth, --peak-bandwidth and --burst-size options are required. **--peak-bandwidth | -k** The peak bandwidth allowed for this shaping policy. This value is in Kbps (1 Kbps = 1000 bits/s) **--vswitch-name | -v** The name of the virtual switch to use when setting the switch shaping policy. (required) **--help** Show the help message.
network vswitch standard portgroup add	Allows the addition of a standard port group to a virtual switch.	**--portgroup-name | -p** The name of the port group to add (required) **--vswitch-name | -v** The virtual switch to add the port group to. (required) **--help** Show the help message.
network vswitch standard portgroup list	List all of the port groups currently on the system.	**--help** Show the help message.
network vswitch standard portgroup remove	Remove a port group from the given virtual switch	**--portgroup-name | -p** (required) **--vswitch-name | -v** (required) **--help** Show the help message.

network vswitch standard portgroup set	Set the vlan id for the given port group	**--portgroup-name | -p** The name of the port group to set vlan id for. (required) **--vlan-id | -v** The vlan id for this port group. This value is in the range (0 - 4095) **--help** Show the help message.
network vswitch standard portgroup policy failover get	Get the network failover policy settings governing the given port group	**--portgroup-name | -p** The name of the port group to use when fetching the port group failover policy. (required) **--help** Show the help message.
network vswitch standard portgroup policy failover set	Configure the Failover policy for a port group. These setting may potentially override virtual switch settings.	**--active-uplinks | -a** Configure the list of active adapters and their failover order. This list must be a comma seperated list of values with the uplink name and no spaces. Example: --active-uplinks=vmnic0,vmnic3,vmnic7,vmnic1 **--failback | -b** Configure whether a NIC will be used immediately when it comes back in service after a failover **--failure-detection | -f** Set the method of determining how a network outage is detected. beacon: Detect failures based on active beaconing to the vswitch link: Detect failures based on the NIC link state **--load-balancing | -l** Set the load balancing policy for this policy. This can be one of the following options: explicit: Always use the highest order uplink from the list of active adapters which pass failover criteria. iphash: Route based on hashing the src and destination IP addresses mac: Route based on the MAC address of the packet source. portid: Route based on the originating virtual port ID. **--notify-switches | -n** Indicate whether to send a notification to physical switches on failover **--portgroup-name | -p** The name of the port group to set failover policy for. (required) **--standby-uplinks | -s** Configure the list of standby adapters and their failover order. This list must be a comma seperated list of values with the uplink name and no spaces. Example: --standby-uplinks=vmnic2,vmnic4,vmnic8,vmnic6,vmnic11 **--use-vswitch | -u** Reset all values for this policy to use parent virtual switch's settings instead of overriding the settings for the port group. Using this in conjunction with other settings will first reset all of the fields to use the virtual switch setting and then apply the other options after the reset. **--help** Show the help message.
network vswitch standard portgroup policy security get	Get the Security Policy governing the given port group.	**--portgroup-name | -p** The name of the port group to use when fetching the network security policy. (required) **--help** Show the help message.
network vswitch standard portgroup policy security set	Set the security policy for a given port group	**--allow-forged-transmits | -f** Allow ports on the virtual switch to send packets with forged source information. **--allow-mac-change | -m** Allow ports on the virtual switch to change their MAC address. **--allow-promiscuous | -o** Allow ports on the virtual switch to enter promiscuous mode. **--portgroup-name | -p** The name of the port group to set security policy for. (required) **--use-vswitch | -u** Reset all values for this policy to use parent virtual switch's settings instead of overriding the settings for the port group. Using this in conjunction with other settings will first reset all of the fields to use the virtual switch setting and then apply the other options after the reset. **--help** Show the help message.
network vswitch standard portgroup policy shaping get	Get the network shaping policy settings governing the given port group	**--portgroup-name | -p** The name of the port group to use when fetching the port group shaping policy. (required) **--help** Show the help message.

network vswitch standard portgroup policy shaping set	Set the shaping policy settings for the given port group	**--avg-bandwidth | -b** The averge bandwidth allowed for this shaping policy. This value is in Kbps (1 Kbps = 1000 bits/s) **--burst-size | -t** The largest burst size allowed for this shaping policy. This value is in Kib (1 Kib = 1024 bits) **--enabled | -e** Indicate whether to enable traffic shaping on this policy. If this is true then the --avg-bandwidth, --peak-bandwidth and --burst-size options are required. **--peak-bandwidth | -k** The peak bandwidth allowed for this shaping policy. This value is in Kbps (1 Kbps = 1000 bits/s) **--portgroup-name | -p** The name of the port group to set shaping policy for. (required) **--use-vswitch | -u** Reset all values for this policy to use parent virtual switch's settings instead of overriding the settings for the port group. Using this in conjunction with other settings will first reset all of the fields to use the virtual switch setting and then apply the other options after the reset. **--help** Show the help message.
network vswitch standard uplink add	Add an uplink to the given virtual switch. Note if this virtual switch has a NIC teaming policy assigned to it then the policy must also be modified to enable use of this uplink on this virtual switch	**--uplink-name | -u** The name of the uplink to add to the virtual switch. (required) **--vswitch-name | -v** The name of the virtual switch to add an uplink to. (required) **--help** Show the help message.
network vswitch standard uplink remove	Remove an uplink from the given virtual switch. Note if this virtual switch has a NIC teaming policy assigned to it then the policy must also be modified to disable use of this uplink on this virtual switch	**--uplink-name | -u** The name of the uplink to remove from the virtual switch. (required) **--vswitch-name | -v** The name of the virtual switch to remove an uplink from. (required) **--help** Show the help message.