

Oracle Solaris 11.4 Network Administration Cheatsheet

This cheatsheet includes examples of commonly used network administration commands. See the [dladm\(8\)](#), [ipadm\(8\)](#), and [route\(8\)](#) man pages for further details.

For more information about configuring the network in Oracle Solaris 11.4, see [Configuring and Managing Network Components in Oracle Solaris 11.4](#).

Commonly Used Network Administration Commands

Note - Some of following commands include parameters and values that are provided as examples *only*.

Action	Command
Administering Datalinks	
Display all of the datalinks (physical and virtual) on a system.	# dladm show-link
Display all of the physical datalinks on a system.	# dladm show-phys
Display all of the properties for all of the datalinks on a system.	# dladm show-linkprop
Display all of the properties for a specific datalink on a system.	# dladm show-linkprop net0
Display a specific property for a specific datalink on a system.	# dladm show-linkprop -p mtu net0
Administering IP Interfaces and Addresses	
Display general information about a system's IP interfaces.	# ipadm
Display a system's IP interfaces and addresses.	# ipadm show-addr
Create an IP interface and then configure a static IPv4 address for that interface.	# ipadm create-ip net0 # ipadm create-addr -a 203.0.113.0/24 net0/addr
Obtain an IP address from a DHCP server.	# ipadm create-ip net0 # ipadm create-addr -T dhcp net0/addr
Create an auto-generated IPv6 address.	# ipadm create-ip net0 # ipadm create-addr -T addrconf net0/addr
Change the netmask property for an IP address object name (net3/v4) to 8.	# ipadm set-addrprop -p prefixlen=8 net3/v4
Configure a persistent default route on a system.	# route -p add default 192.0.2.1/27
Configure a persistent default route by specifying a name.	# route -p add IP-address -name route1 persistent: route add IP-address -name route1
Configure a static route on a system.	# route -p add -net 192.0.2.35/27 -gateway 192.0.2.1/27
Display a system's default route.	# route -p show
Delete a persistent route by specifying a name.	# route -p delete -name route1 delete host -name route1 route-IP: gateway gateway-IP: not in table delete persistent host -name route1 route-IP: gateway gateway-IP If you do not specify the -p option with the -name option, the route is removed from the routing tables only.
Configure a system's host name.	# hostname hostname
Administering Naming Services	
Configure DNS on a system	# svccfg -s dns/client setprop config/nameserver=net_address: 192.0.2.1/27 # svccfg -s dns/client setprop config/domain = astring: "myhost.org" # svccfg -s name-service/switch setprop config/host = astring: "files dns" # svcadm refresh name-service/switch # svcadm refresh dns/client # svcadm enable dns/client

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Action	Command
Administering External Network Modifiers (ENMs)	
List all of the ENMs on a system.	# netadm list
Enable an ENM named myenm.	# netadm enable myenm
Administering Wireless Networks	
Display information about available wireless networks.	# dladm scan-wifi
Connect to an unsecured wireless network with the strongest signal.	# dladm connect-wifi
Connect to an unsecured wireless network by specifying an ESSID.	# dladm connect-wifi -e ESSID
Check the status of the wireless network to which the system is currently connected.	# dladm show-wifi