

Sysadmin's networking cheat sheet

A sysadmin manages servers and networks. The following utilities and commands are common Linux tools that make a sysadmin's daily tasks easy.

Ping: verify connectivity between you and a remote system					
ping 8.8.8.8			Ping a server at 8.8.8.8 over IPv4		
ping6 example.com			Ping a server at example.com over IPv6		
Traceroute: trace the path from one system to another, including routers in between					
traceroute 8.8.8.8			traceroute example.com		
Nslookup: query Internet name servers					
nslookup example.com			Display your DNS server and target IP address		
Telnet & OpenSSL: connect to ports and query them for functionality					
telnet example.com 110			openssl s_client -starttls smtp \ -connect example.com:587		
Netstat: analyze interface, port, protocol statistics, and routing tables					
netstatlistening	-1	List ports in listening mode			
netstatall	-a	List all ports			
netstatroute	-r	Display routing tables			
netstatinterfaces	-i	Display TX/RX packet statistics for each interface			
General					
systemctl restart network			Restart network service		
tcpdump -i eth0			Show live packets from interface eth0		





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Network manager					
nmcli device		Display network devices			
nmcli device show eth0		Show information about eth0 device			
nmcli connection		Show network connections			
nmcli connection up foo		Bring connection foo up			
nmcli device wifi connect foo		Connect to wireless network foo			
Routing					
ip route		Show current routes			
route add default gw 10.0.0.1		Add 10.0.0.1 as default gateway to routing table			
ip addr show		Show your local IP address			
ip neighbor show		Show neighbors			
arp		Show neighbors			
Firewall					
firewall-cmdget-active-zones		List active firewall zones			
change-interface eth0zone=example		Place eth0 into example zone			
get-services	List all defined services				
add-service sambazone=example	Add samba ports to example zone				
add-port=123/tcpzone=example	Add port 123 to example zone				
permanent	Add this flag to make a change persistent				

