

Windows Command Line-Networking Cheat Sheet

by Mary F. Smith (boogie) via cheatography.com/86236/cs/20743/

ipconfig

ipconfig /displaydns

ipconfig /registerdns

ipconfig /flushdns

ping - [cls clears the screen]

ping [name, ip or address]

- -t 192.168.1.144[conti nuous ping until cease command sent]
- -n 10 LT-4151[for 10 replies]
- -6 192.1681.1.144 [forces the use of IPv6]
- [edit the packet]
- -f [do not fragment packet] i.e. usage ping -f -l 130
 0 8.8.8.8

errors if receiver MTU is lower than sender

tracert [all router hops from sen to rec]

tracert [ip or hostname]

- -d [drops the dns request]
- -h [changes the max hops]

pathping [tracert with a 25 sec ping on each hop]

-h [max number of hops]

arp [address resolution protocol

arp -a [arp table cached on current host]

[static - user or system created]

[dynamic - learned from a neighbor]

arp-d 192.16 8.1.1 [deletes this address from apr ta ble]

*by default the broadcast MAC is FF:FF: FF: FF: FF

arp -s 192.168.1.1 00-AA-22-BB-33-CC [adds entry to arp ta ble]

Telnet [test for established TCP session]

telnet 104.47.48.36 25

[tests connectivity to email or relay server via port 25]

telnet google.com 80

tests connectivity to a web server via port 80

searched for ats.coop mx record = 104.47.48.36 default port for telnet is 23 but for smtp it is 25

netstat [assists with port & session issues]

netstat [reply provides protocol, local IP:port #, ren

- -a [includes listening ports]
- -b [includes applic ation listening 'in brackets
- -O [includes process id for listening applic atio
 - a listening port may be " loc ked " open, blowif a host listens on 0.0.0.0, it will respond
- -n [places list in numerical order]
- -S provides statis tical inform ation

i.e. IPv4, IPv6, TCP, UDP and ICMP inform ation

nbtstat

nbtstat name resolution via netbios

- -c [displays interface and local netbios cache]
- -a [displays the netbios name table of this host
- -S lists open sessions

nslookup

nslookup

[inter active mode]

nslookup www.google.com [returns FQDN]

opens an intera ctive window allowing other commands

set q=mx ats.coop

set q=cname ats.coop



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route

route print

route delete 192.168.1.1

route add 192.168.1.1

 $^{\ast}\,\text{route}$ table should always have the default route of 0.0.0.0 to 10.0.0.

Still Pending pathping

netdiag hostname

Other Tools

speedtest.com throughput tester environmental monitors cable certifier network sniffer [protocol analyzer] cable tester BER = bit errors/bits transferred bit error rate tester [BERT] t1 wireless analyzer looking glass sites Board gateway protocol[BGP] Microsoft Network Monitor



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