

Windows Command Line 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 [continuous 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 -1

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 192.168.1.1 [deletes this address from apr
table]

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

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

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]

- -a [includes listening ports]
- -b [includes application listening 'in brackets'
- -0 [includes process id for listening application

a listening port may be "locked" open, blocking other connection attempts

if a host listens on 0.0.0.0, it will respond to all requests

- -n [places list in numerical order]
- -s provides statistical information

i.e. IPv4, IPv6, TCP, UDP and ICMP information

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 [interactive mode]

nslookup www.google.com [returns FQDN]

opens an interactive window allowing other commands i.e.

set q=mx ats.coop

set q=cname ats.coop

route

route print

route delete 192.168.1.1

route add 192.168.1.1

*route table should always have the default route of 0.0.0.0 to 10.0.0.2



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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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