

Cisco IOS Command List

Logging onto the router (directly attached thru console port)

Password: *uwtest*, case sensitive, <return>

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First Level Display Commands:

Show Interface <return> (displays status of interfaces in box)

Show IP Route <return> (displays IP routes between routers)

Show ARP <return> (displays ARP table)

To Enter Enable Mode (special command set, including configuration mode)

Type in **enable <return>**

Second level Password: *uwtest*, (case sensitive) <return>

Configuration Commands:

At # (prompt) type **config <return>**

Router will respond: "From Network..... terminal (terminal)

<return> will default to terminal/console

Categories of Commands:

a) Global Commands - are to config something to the entire box, for example: Novell Routing, will enable novell routing for the entire box on all interfaces, DECnet routing would do the same, thus DECnet and Novell would be enabled (turned on) for each interface (port).

a) Interface Commands - are to do something to the an interface, for example:
 interface Ethernet 0 (PhyPort 0)

To Configure a Particular Interface:

In configuration mode:

Type:

Interface Ethernet 0 <return>

IP Address XXX.XXX.XXX.XXX subnet mask <return>

IP broadcast-add <return>

Interface Ethernet 1 <return>

IP Address XXX.XXX.XXX.XXX subnet mask <return>

IP broadcast-add <return>

To Exit Configuration Mode:

Control and Z keys (at same time)

To Display Configuration:

Write Term <return> (will write config to terminal - to review)

Write Mem <return> (will write config to memory - permanent)

Show config <return> (will display saved configuration)

Remote Access/Login: Telnet

Telnet IP address <return> (of router/host you want to go to)

Using above commands, one may display interfaces and configurations of other routers:

Useful Router Commands

cisco - show commands

access-lists	Access control lists
access-expression	Access expression
appletalk <keyword>	AppleTalk information,
arp	ARP cache
bridge	Bridging configuration
buffers	Network buffer utilization
chaos	Chaos information,
clns <keyword>	CLNS information,
configuration	Display non-volatile configuration memory
controllers	Network interface controller statistics
debugging	State of debugging flags
decnet <keyword>	DECnet information,
env	Environmental measurements
flash	Flash ROM controller
hosts	Host/address cache
imp-hosts	Active IMP hosts
interfaces	Network interface statistics
ip <keyword>	Internet Protocol information,
isis <keyword>	IS-IS Intra-Domain routing information
local-ack	Local ACKnowledgement
line <line>	Line information, may specify a line
llc2	LLC2 circuit information
logging	Logging information
memory	Memory utilization statistics
netbios-cache	NetBIOS name cache contents
novell <keyword>	Novell information,
processes	Active system processes
protocols	Active network protocols
pup <keyword>	PUP information,
rif	RIF cache
sessions	Telnet and rlogin connections
slip	SLIP statistics
source-bridge	Display source bridge information
spanning-tree	Display spanning trees
stacks	Process and interrupt stack use
tcp <line>	TCP information, may specify a line
terminal	Terminal parameters
users	Summary of active lines and connections
version	Hardware configuration and software version
vines <keyword>	Vines information,
x25 <keyword>	X.25 information,
xns <keyword>	XNS information,

Cisco IOS Router Show Commands

sho <argument> enter

access-lists	List access lists
accounting	Accounting data for active sessions
adjacency	Adjacent nodes
aliases	Display alias commands
aps	APS information
arp	ARP table
async	Info on terminal lines used as router interfaces
atm	ATM information
backup	Backup status
bootflash:	Display information about bootflash: file system
bootvar	Boot and related environment variable
buffers	Buffer pool statistics
calendar	Display the hardware calendar
cca	CCA information
cdapi	CDAPI information
cdp	CDP information
cef	Cisco Express Forwarding
class-map	Show QoS Class Map
clns	CLNS network information
clock	Display the system clock
compress	Show compression statistics
configuration	Contents of Non-Volatile memory
connection	Show Connection
context	Show context information about recent crash(s)
controllers	Interface controller status
cops	COPS information
debugging	State of each debugging option
derived-config	Derived operating configuration
dhcp	Dynamic Host Configuration Protocol status
diagbus	Show diagnostic bus information
dialer	Dialer parameters and statistics
disk0:	display information about disk0: file system
disk1:	display information about disk1: file system
dnsix	Shows Dnsix/DMDP information
dss	DSS information
dxl	atm-dxl information
environment	Environmental monitor statistics
exception	exception informations
file	Show filesystem information
flash:	display information about flash: file system
frame-relay	Frame-Relay information
funl	FUNI information
history	Display the session command history
hosts	IP domain-name, nameservers, host table
html	HTML helper commands
ldl	List of Hardware Interface Descriptor Blocks
lma	Display IMA Interfaces
interfaces	Interface status and configuration
ip	IP information
ipc	Interprocess communications commands
isis	IS-IS routing information
key	Key information
line	TTY line information
llc2	IBM LLC2 circuit information
location	Display the system location
logging	Show the contents of logging buffers
memory	Memory statistics
microcode	Microcode in system
mls	multilayer switching information
mpls	MPLS information
ntp	Network time protocol
parser	Display parser information
policy-map	Show QoS Policy Map
ppp	PPP parameters and statistics
privilege	Show current privilege level

processes	Active process statistics
protocols	Active network routing protocols
qdm	Show information about QoS Device Manager
queue	Show queue contents
queueing	Show queueing configuration
radius	Shows radius information
random-detect-group	display random-detect group
registry	Function registry information
reload	Scheduled reload information
rhosts	Remote-host+user equivalences
rif	RIF cache entries
rmon	rmon statistics
route-map	route-map information
rsp	Miscellaneous RSP information
rtr	Response Time Reporter (RTR)
running-config	Current operating configuration
sessions	Information about Telnet connections
slavebootflash:	display info about slavebootflash: file system
slavedisk0:	display information about slavedisk0: file system
slavedisk1:	display information about slavedisk1: file system
slaveslot0:	display information about slaveslot0: file system
slaveslot1:	display information about slaveslot1: file system
slot0:	display information about slot0: file system
slot1:	display information about slot1: file system
smds	SMDS information
smf	Software MAC filter
snapshot	Snapshot parameters and statistics
snmp	snmp statistics
spanning-tree	Spanning tree topology
srp	SRP information
sscop	SSCOP
stacks	Process stack utilization
standby	Hot Standby Router Protocol (HSRP) information
startup-config	Contents of startup configuration
subscriber-policy	Subscriber policy
subsys	Show subsystem information
syscon	System Controller information
tacacs	Shows tacacs+ server statistics
tcp	Status of TCP connections
tech-support	Show system information for Tech-Support
template	Template information
terminal	Display terminal configuration parameters
time-range	Time range
traffic-shape	traffic rate shaping configuration
users	Display information about terminal lines
version	System hardware and software status
vlan	Virtual LANs Information
vtemplate	Virtual Template interface information
x29	X.29 information
xtagatm	XTagATM information