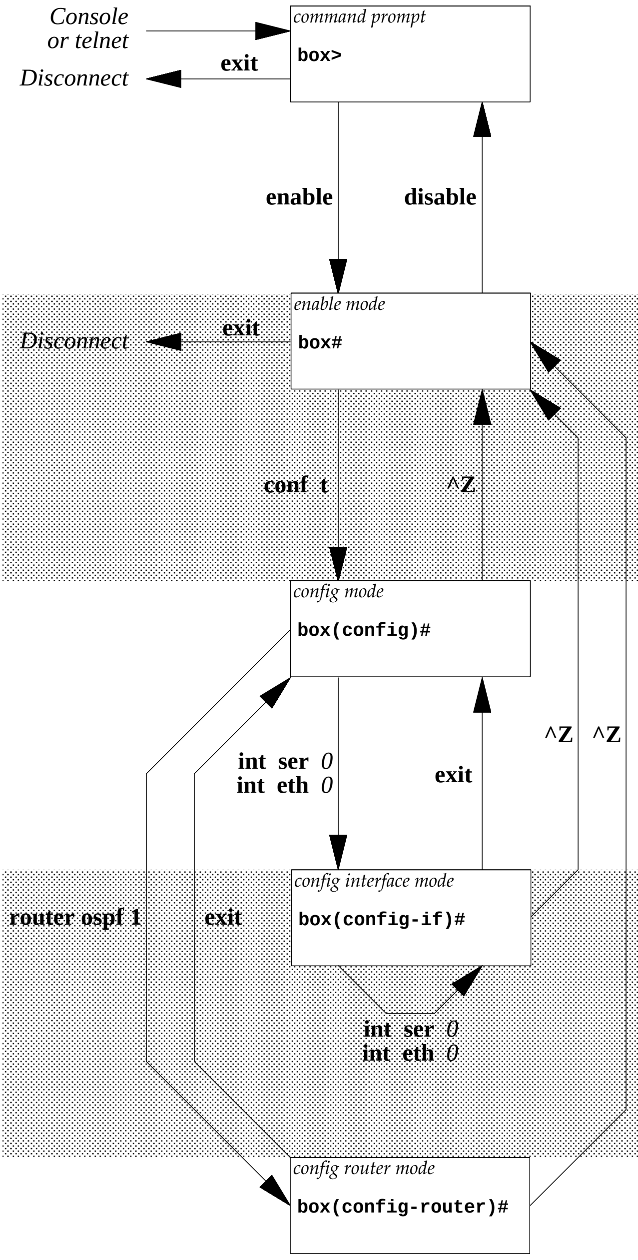
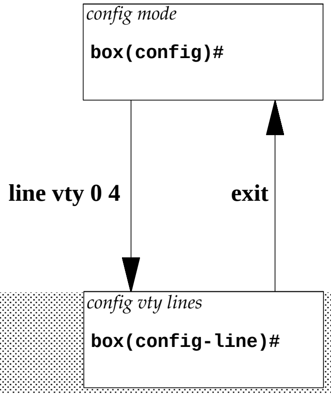
Cisco Router Basic Configuration

no ***xxxxx...*** *to remove any setting*
Type **?** *at any point for parameter help*



show version	Hardware and software info
ping *n.n.n.n*	(Ctrl-6 to abort output)
traceroute *n.n.n.n*	
telnet *n.n.n.n*	
show int eth 0	Show status of ethernet 0
show int ser 0	Show status of serial 0
show ip route	Show IP forwarding table
show arp	Show ARP cache
show ip ospf [int | neighbor | database]	Show OSPF state
show run	Show currently running configuration
show conf	Show configuration which is in NVRAM
write mem	Write current configuration into NVRAM
reload	Reboot the router
clock set *hh:mm:ss dd monthname yyyy*	Set system clock
ip classless	Enable CIDR variable-length prefixes [default in 12.0]
ip subnet-zero	Also required to enable CIDR [default in 12.0]
no ip domain-lookup	Prevent traceroute from doing reverse DNS lookups
service password-encryption	Obscure passwords when displaying configuration (*not* secure!)
☆ **ip route** *n.n.n.n m.m.m.m g.g.g.g*	Add static route to forwarding table: *network, netmask, next hop gateway*
enable secret *word*	Set the enable password (to restrict enable mode)
hostname *name*	Set router name ("box" in this example)
ip address *n.n.n.n m.m.m.m*	Set interface IP address and prefix length (netmask)
no shutdown	Enable interface (remove "administrative shutdown")
ip ospf cost *100*	Assign OSPF cost to this interface
[Ethernet only]	
arp timeout *300*	Set ARP timeout to 300 seconds (default is 4 hours)
no ip redirects	
no ip proxy-arp	
[Serial only]	
ip unnumbered eth *0*	Unnumbered: use the IP number from eth 0 as the local IP address on this int.
encap ppp	Set encapsulation to PPP (default is Cisco HDLC)
☆ **network** *n.n.n.n x.x.x.x* **area 0**	Speak OSPF on this network (n.n.n.n = network number, x.x.x.x is "wildmask" which is a netmask with 0 and 1 inverted; e.g. /28 wildmask is 0.0.0.15)
redistribute connected subnets	Announce directly-connected networks (including those not talking OSPF)
redistribute static subnets	Announce manually-inserted static routes, except default
default-information originate	Announce static default route

☆ *Repeat command as necessary*



snmp community ***password*** **ro** *[1-99]*	Enable read-only SNMP access (optional: limit to access list)
access-list *1-99* **permit** *n.n.n.n x.x.x.x*	Add entry to basic access list - source IP address and wildmask
ip cef *[not 2500 series]*	Enable Cisco Express Forwarding - route caching and load-sharing
clock timezone EST 1	Set timezone/hours offset from GMT
ntp server *x.x.x.x*	Synchronise clock to ntp server
logging buffered 16384 debugging	Allocate more logging memory
service timestamps log datetime localtime **service timestamps debug datetime localtime**	Enable "real" timestamps on log entries; otherwise you get time since last reboot. Use "show log" to view log entries.
login **password** *xxxxx*	Require password to access router via telnet
login local ☆ **username** *xxxxx* **password** *yyyyy*	(alternative) Require username *and* password
transport preferred none	Prevent unknown commands from being interpreted as hostnames
escape-character 3	Use Ctrl-C as interrupt character (instead of Ctrl-6)
access-class *1-99* **in**	Restrict telnet logins using access list

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