

CS 430/594 Routing Spring, 2003 straight

some useful Cisco IOS routing config commands.
prompt plain, command in bold below:

```
router>enable (or en) enable terminal
router#config t (or config terminal)
router(config)# hostname RA optional--if you want to name each router (e.g. RA)--if you do
this, then the other prompts would have RA(config)
router(config)#int e0 or interface ethernet0, etc configure the e0 interface ditto s0
router(config-if)#ip address 10.10.4.1 255.255.255.0 specify the IP address & mask
router(config-if)#no shut makes the interface active
```

```
whatever#exit takes you back one level
```

```
router#sh ip route or show ip route show the routing table
router#ping 10.10.4.3 ping the given host
router(config)#ip route 172.16.11.0 255.255.255.0 172.16.20.1 set a static route
router(config)#no ip route 172.16.11.0 255.255.255.0 172.16.20.1 remove static route
router(config)#ip route 0.0.0.0 0.0.0.0 172.16.11.1 set a default route, etc
router(config)#ip classless used for default routes
router#show interface e0 show the interface, etc
```

```
router#router rip run rip
router(config-router)#network 172.16.0.0 network to be advertised on rip, etc
```

```
router#ospf 10 run ospf 10 is the "process id"
router(config-router)#network 176.193.4.0 0.0.0.255 area 1 specify area, etc
router(config-router)#area 1 stub designate a stub area
router(config-router)#area 2 stub no-summary totally stubby area
router(config-router)#area 5 nssa not-so-stubby area
router(config-router)#area 100 virtual-link 192.168.100.29 establish half the link
see also pages 581ff in routing tcp/ip vol i
```