

## Configuring the Router's Name

```
router>enable
router# config t
router(config)# hostname NAM
NAME(config)# no ip domain lookup
```

## Configuring the Switch's Name

```
switch> enable
switch# config t
witch(config)# hostname NAME
NAME(config)# no ip domain lookup
```

---

## Configuring the Ethernet Interface(s) on Router only:

```
NAME# config t
NAME(config)# int interface type & number (fa0/0, fa0/1 - G0/0, G0/1 - G0/0/0, G0/0/1)
NAME(config-if)# description your description of the interface
NAME(config-if)# ip address ip address subnet mask
NAME(config-if)# no shutdown
```

## Configuring the Serial Interface(s)

```
NAME(config)# int interface type & number (s0/0, s0/1 - s0/0/0, s0/0/1)
NAME(config-if)# clock rate 56000 (when configuring a DCE serial interface ONLY)
NAME(config-if)# no shutdown
NAME(config-if)# exit
```

## Configuring an IP Address and Default Gateway for VLAN 1 on a Switch only

```
NAME(config)# interface vlan 1
NAME(config-if)# ip address ip address subnet mask
NAME(config-if)# no shutdown
NAME(config-if)# exit
NAME(config)#ip default-gateway ip address
```

---

## Configuring STATIC and Default Routes:

```
Name(config)# ip route [destination network] [Subnet Mask] [next hop IP address or interface]
Name(config)# ip route 0.0.0.0 0.0.0.0 [next hop IP address or exit interface]
```

---

## Configuring Passwords for Routers & Switches:

### Encrypted: (user mode to privilege mode)

```
NAME# config t
NAME(config)# enable secret class
```

### Console:

```
NAME# config t
NAME(config)# line con 0
NAME(config-line)# password cisco
NAME(config-line)# login
(config-line)#exit
```

### Virtual Terminal (Telnet):

```
NAME# config t
NAME(config)# line vty 0 4
NAME(config-line)# password cisco
```

### Banner:

```
NAME# Config t
NAME(config)# banner motd # your message #
```

### Configuring SSH:

```
NAME(config)# ip domain-name cisco.com
NAME(config)# crypto key generate rsa
How many bits in the modulus [512]: 1024
NAME(config)# line vty 0 15
NAME(config-line)# login local
NAME(config-line)# transport input ssh
NAME(config-line)# no password cisco
```

### Testing ssh connection from the host:

```
C:\> ssh -l administrator ip address
```

---

## SHOW COMMANDS:

Show: run, show start, interface, ip interface brief, ip route, version, vlan (on switch only)