Basic Router “Housekeeping”

Router>**enable** Enter Privileged Exec Mode

Router#**configure terminal** Enter global configuration mode

Router(config)#**hostname** xxxx Configure hostname

xxx(config)#**service password-encryption** Encrypt all passwords

xxx(config)#**enable password** cisco Set enable password to “cisco”

xxx(config)#**banner motd $** xxxx $ Set a message of the day

NOTE: Must start and end with the same character.

xxx(config)#**no ip domain-lookup** Stops lookups for mistyped commands.

xxx(config)#**line vty 0 4** Configure virtual terminal lines 0-4 (5 lines/sessions)(Telnet)

xxx(config-line)#**password** class Set the VTY password as “class”

xxx(config-line)#**login** Instruct the router to use the password to gain access

xxx(config-line)#**line con 0** Configure console port

xxx(config-line)#**password** class Set the console port password as “class”

xxx(config-line)#**login** Instruct the router to use the password to gain access

xxx(config-line)#**logging synchronous** Set the router to use synchronous command line entries

xxx(config-line)#**end** Finished

xxx#

xxx#**copy run start** Save your configurations

Configuring the basics of a router interface:

Fast Ethernet:

xxx#**config t** Enter global configuration mode

xxx(config)#**int fa0/0** Enter fast Ethernet configuration mode. Use g0/0 for gigabit ethernet

xxx(config-if)#**ip address x.x.x.x x.x.x.x** Enter the IP address and subnet mask of the interface.

xxx(config-if)#**description xxxxxxx** Enter the interface description

xxx(config-if)#**no shut** Turn the interface on

Serial interface:

xxx#**config t** Enter global configuration mode

xxx(config)#**int S0/0/0** Enter Serial configuration mode

xxx(config-if)#**ip address x.x.x.x x.x.x.x** Enter the IP address and subnet mask of the interface.

xxx(config-if)#**description xxxxxxx** Enter the interface description

xxx(config-if)#**clock rate 2000000** Enter the clock rate for the serial line, only on the DCE end

xxx(config-if)#**no shut** Turn the interface on

Configuring RIP routing protocol to a router:

xxx#**config t** Enter global configuration mode

xxx(config)#**router rip**

)#**version 2**

)#**no auto-summary** Disable automatic

summarization mode

)#**network x.x.x.x** Advertise directly connected

networks

)#**network x.x.x.x**

)#**passive-interface x.x.x.x** Don’t advertise to this interface

Configuring static routing protocol to a router:

xxx#**config t**

)# **ip route x.x.x.x x.x.x.x outgoint int** /or **next hop addr**

Configuring default route to a router:

xxx#**config t**

)# **ip route 0.0.0.0 0.0.0.0 outgoint int** /or **next hop addr**

)# **router rip**

)#**default-information originate** Propagate default route

Configuring loopback address to a router:

xxx#**config t**

)#**int lo 0**

)#**ip address x.x.x.x x.x.x.x** Enter the IP address and subnet mask of the interface.