# Basic Router Configuration

This module provides basic configuration procedures for the Cisco 800M Series ISR and contains the

following sections.

- Configuring Global Parameters,
- Configuring Gigabit Ethernet WAN Interfaces,
- Configuring a Loopback Interface,
- Configuring Command-Line Access,
- Configuring Gigabit Ethernet LAN Interfaces,
- Configuring Static Routes,
- Configuring Dynamic Routes,

## Configuring Global Parameters

To configure the global parameters for your router, follow these steps.

#### **SUMMARY STEPS**

- 1. configure terminal
- 2. hostname name
- 3. enable secret password
- 4. no ip domain-lookup

#### **DETAILED STEPS**

Command	Purpose
configure terminal	Enters global configuration mode, when using the console port.
Example:	
Router> enable Router# configure terminal	
hostname name	Specifies the name for the router.
Example:	
Router(config)# hostname Router	
enable secret password	Specifies an encrypted password to prevent unauthorized access to the router.
Example:	
Router(config)# enable secret cr1ny5ho	
no ip domain-lookup	Disables the router from translating unfamiliar words (typos) into IP addresses.
Example:	
Router(config) # no ip domain-lookup	

### Configuring Gigabit Ethernet WAN Interfaces

You can connect WAN interfaces either by using straight polarity connectors or reversed polarity

connectors.

• Straight Polarity: If Mag-jack RJ45 connector has a dot or digit marked on front housing, it can be

used with any type of cables.

• Reversed Polarity: If Mag-jack RJ45 connector has no dots or digit marked on front housing, it can

be used with coupler and short cable (Cat5E UTP cable) to connect other devices which doesn't

support auto polarity correction.

To configure Gigabit Ethernet (GE) WAN interfaces, follow these steps, beginning in global

configuration mode.

### **SUMMARY STEPS**

- 1. configure terminal
- 2. interface gigabitethernet slot/port
- 3. ip address ip-address mask
- 4. no shutdown
- 5. exit

Command	Purpose
configure terminal	Enters global configuration mode.
Example: Router# configure terminal	
nterface gigabitethernet slot/port	Enters the configuration mode for a Gigabit Ethernet interface on the router.
Example: Router(config)# interface gigabitether	Note GigabitEthernet WAN Interfaces are
outer(config)# Intellate gigabitether	0/8 and 0/9 for Cisco C841M-8X ISI and 0/4 to 0/5 for Cisco C841M-4X
p address ip-address mask	Sets the IP address and subnet mask for the specified GE interface.
Example:	
Router(config-if)# <b>ip address</b> 192.168. 55.255.255.0	12.2
no shutdown	Enables the GE interface, changing its state from administratively down to administrative
Example:	up.
Router(config-if)# no shutdown	
exit	Exits configuration mode for the GE interfact and returns to global configuration mode.
Example:	
Router(config-if)# exit	

# Configuring a Loopback Interface

The loopback interface acts as a placeholder for the static IP address and provides default routing

information.

To configure a loopback interface, follow these steps, beginning in global configuration mode.

#### **SUMMARY STEPS**

- 1. configure terminal
- 2. interface type number
- 3. ip address ip-address mask
- 4. exit

Command	Purpose
configure terminal	Enters global configuration mode.
Example: Router# configure terminal	
interface type number	Enters configuration mode for the loopback interface.
Example:	
Router(config)# interface Loopback 0	
ip address ip-address mask	Sets the IP address and subnet mask for the loopback interface.
Example:	
Router(config-if)# ip address 10.108.1.1 255.255.255.0	
exit	Exits configuration mode for the loopback interface and returns to global configuration
Example:	mode.
Router(config-if)# exit	

### **Configuring Command-Line Access**

To configure parameters to control access to the router, perform the following steps

#### **SUMMARY STEPS**

- 1. configure terminal
- 2. line [aux | console | tty | vty] line-number
- 3. password password
- 4. login
- 5. exec-timeout minutes [seconds]
- 6. line [aux | console | tty | vty] line-number
- 7. password password
- 8. login
- 9. end

	Command	Purpose
Step 1	configure terminal	Enters global configuration mode.
	Example: Router# configure terminal	
Step 2	line [aux   console   tty   vty] line-number	Enters line configuration mode, and specifies the type of line.
	Example:	
	Router(config)# line console 0	

Command	Purpose
password password	Specifies a unique password for the console terminal line.
Example:	
Router(config)# password 5dr4Hepw3	
login	Enables password verification at the terminal login session.
Example:	
Router(config-line) # login	
exec-timeout minutes [seconds]	Sets the interval that the EXEC command interpreter waits until user input is detected. The
Example:	default is 10 minutes. You can also optionally add
Router(config-line)# exec-timeout 5 30	seconds to the interval value.
line [aux   console   tty   vty] line-number	Specifies a virtual terminal for remote console access.
Example:	
Router(config-line) # line vty 0 4	
password password	Specifies a unique password for the virtual terminal line.
Example:	
Router(config-line) # password aldf2ad1	
login	Enables password verifiation at the virtual terminal login session.
Example:	
Router(config-line) # login	
end	Exits line configuration mode, and returns to privileged EXEC mode.
Example:	
Router(config-line) # endRouter#	

### **Configuring Gigabit Ethernet LAN Interfaces**

To manually configure Gigabit Ethernet (GE) LAN interfaces, follow these steps, beginning in global configuration mode.

#### SUMMARY STEPS

- 1. configure terminal
- 2. interface gigabitethernet slot/port
- 3. ip address ip-address mask
- 4. no shutdown
- 5. exit

Command	Purpose
configure terminal	Enters global configuration mode.
Example: Router# configure terminal	
interface gigabitethernet slot/port	Enters the configuration mode for a Gigabit Ethernet interface on the router.
Example: Router(config) # interface gigabitethernet 0/	Note GigabitEthernet LAN Interfaces are 0/0 to 0/7 for Cisco C841M-8X ISR and 0/0 to 0/3 for Cisco C841M-4X ISR.
ip address ip-address mask	Sets the IP address and subnet mask for the specified GE interface.
Example:	
Router(config-if)# ip address 192.168.12.2 255.255.255.0	
no shutdown	Enables the GE interface, changing its state from administratively down to administrativel
Example:	up.
Router(config-if)# no shutdown	
exit	Exits configuration mode for the GE interfact and returns to global configuration mode.
Example:	
Router(config-if)# exit	