R1

Physical   Config   CLI

MODULES

| HWIC-2T |
| HWIC-4ESW |
| HWIC-8A |
| HWIC-AP-AG-B |
| WIC-1AM |
| WIC-1ENET |
| WIC-1T |
| WIC-2AM |

Physical Device View

Zoom In   Original Size

SLOT 1   FE 1/0   CONSOLE   SLOT 0   CISCO SYSTEMS   100 - 240V VAC ~
                                    FDX   CISCO 1841   1 A
                                    100   50/60 Hz
                                    LINK
                                    FDX
                                    100
                                    LINK
DO NOT REMOVE DURING NETWORK OPERATION   CF   AIM   FE 0/0   AUX

```
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         --- System Configuration Dialog ---

Continue with configuration dialog? [yes/no]: no


Press RETURN to get started!



Router>conf t
            ^
% Invalid input detected at '^' marker.

Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int Se0/1/0
Router(config-if)#ip address 172.16.1.1 255.255.255.252
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down
Router(config-if)#exit
Router(config)#interface Fa0/0
Router(config-if)#ip address 192.168.10.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
write memory
           ^
% Invalid input detected at '^' marker.

Router(config-if)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
write memory
Building configuration...
[OK]
Router#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up
```

```
Router>hostname R1
              ^
% Invalid input detected at '^' marker.

Router>enable
Router#hostname R1
              ^
% Invalid input detected at '^' marker.

Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R1
R1(config)#ip route 192.168.20.0 255.255.255.0 172.16.1.2
R1(config)#ip route 172.16.2.0 255.255.255.252 172.16.1.2
R1(config)#ip route 192.168.30.0 255.255.255.0 172.16.1.2
R1(config)#^Z
R1#
%SYS-5-CONFIG_I: Configured from console by console
wr
Building configuration...
[OK]
R1#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

     172.16.0.0/30 is subnetted, 2 subnets
C       172.16.1.0 is directly connected, Serial0/1/0
S       172.16.2.0 [1/0] via 172.16.1.2
C    192.168.10.0/24 is directly connected, FastEthernet0/0
S    192.168.20.0/24 [1/0] via 172.16.1.2
S    192.168.30.0/24 [1/0] via 172.16.1.2
R1#
```

Physical | Config | CLI

```
Press RETURN to get started!


Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R2
R2(config)#int Se0/1/0
R2(config-if)#ip address 172.16.1.2 255.255.255.252
R2(config-if)#no shutdown

R2(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up
exit
R2(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up
enable
% Incomplete command.
R2(config)#int Fa0/0
R2(config-if)#ip address 192.168.20.1 255.255.255.0
R2(config-if)#no shutdown

R2(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
exit
R2(config)#int Se0/1/1
R2(config-if)#ip address 172.16.2.1 255.255.255.252
R2(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/1/1, changed state to down
R2(config-if)#^Z
R2#
%SYS-5-CONFIG_I: Configured from console by console
write memory
Building configuration...
[OK]
R2#
%LINK-5-CHANGED: Interface Serial0/1/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/1, changed state to up




R2 con0 is now available
```

```
R2>enable
R2#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
R2(config)#ip route 192.168.10.0 255.255.255.0 172.16.1.1
R2(config)#ip route 192.168.30.0 255.255.255.0 172.16.2.2
R2(config)#^Z
R2#
%SYS-5-CONFIG_I: Configured from console by console
wr
Building configuration...
[OK]
R2#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

     172.16.0.0/30 is subnetted, 2 subnets
C       172.16.1.0 is directly connected, Serial0/1/0
C       172.16.2.0 is directly connected, Serial0/1/1
S    192.168.10.0/24 [1/0] via 172.16.1.1
C    192.168.20.0/24 is directly connected, FastEthernet0/0
S    192.168.30.0/24 [1/0] via 172.16.2.2
R2#




R2 con0 is now available
```

Physical   Config   CLI

```
        --- System Configuration Dialog ---

Continue with configuration dialog? [yes/no]: no


Press RETURN to get started!



Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#int Se0/1/0
Router(config-if)#ip address 172.16.2.2 255.255.255.252
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/1/0, changed state to up
ex
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up
% Ambiguous command: "e"
Router(config-if)#exit
Router(config)#int Fa0/0
Router(config-if)#ip address 192.168.30.1 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
wr
                  ^
% Invalid input detected at '^' marker.

Router(config-if)#exit
Router(config)#^Z
Router#
%SYS-5-CONFIG_I: Configured from console by console
write memory
Building configuration...
[OK]
Router#





Router con0 is now available
```

```
Router>enable
Router#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname R3
R3(config)#ip route 0.0.0.0 0.0.0.0 Se0/1/0
R3(config)#^Z
R3#
%SYS-5-CONFIG_I: Configured from console by console
wr
Building configuration...
[OK]
R3#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is 0.0.0.0 to network 0.0.0.0

     172.16.0.0/30 is subnetted, 1 subnets
C       172.16.2.0 is directly connected, Serial0/1/0
C    192.168.30.0/24 is directly connected, FastEthernet0/0
S*   0.0.0.0/0 is directly connected, Serial0/1/0
R3#




R3 con0 is now available
```

Fire	Last Status	Source	Destination	Type	Color	Time(sec)	Periodic	Num	Edit	Delete
●	Successful	PC0	PC1	ICMP	■	0.000	N	0	(edit)	(delete)
●	Successful	PC0	PC1	ICMP	■	0.000	N	1	(edit)	(delete)
●	Successful	PC2	PC1	ICMP	■	0.000	N	2	(edit)	(delete)

PC0

Physical | Config | Desktop | Custom Interface

IP Configuration

IP Configuration
- ○ DHCP   ● Static

IP Address	192.168.10.10
Subnet Mask	255.255.255.0
Default Gateway	192.168.10.1
DNS Server	

IPv6 Configuration
- ○ DHCP ○ Auto Config ● Static

IPv6 Address	
Link Local Address	FE80::201:43FF:FE34:E
IPv6 Gateway	
IPv6 DNS Server	

PC1

Physical | Config | Desktop | Custom Interface

IP Configuration

IP Configuration
- ○ DHCP   ● Static

IP Address	192.168.20.10
Subnet Mask	255.255.255.0
Default Gateway	192.168.20.1
DNS Server	

IPv6 Configuration
- ○ DHCP ○ Auto Config ● Static

IPv6 Address	
Link Local Address	FE80::20A:F3FF:FE82:5B
IPv6 Gateway	
IPv6 DNS Server	

PC2

Physical | Config | Desktop | Custom Interface

IP Configuration

IP Configuration
- ○ DHCP   ● Static

IP Address	192.168.30.10
Subnet Mask	255.255.255.0
Default Gateway	192.168.30.1
DNS Server	

IPv6 Configuration
- ○ DHCP ○ Auto Config ● Static

IPv6 Address	
Link Local Address	FE80::260:47FF:FE17:37D9
IPv6 Gateway	
IPv6 DNS Server	

Command Prompt

```
Packet Tracer PC Command Line 1.0
PC>ping 192.168.10.1

Pinging 192.168.10.1 with 32 bytes of data:

Reply from 192.168.10.1: bytes=32 time=0ms TTL=255
Reply from 192.168.10.1: bytes=32 time=0ms TTL=255
Reply from 192.168.10.1: bytes=32 time=0ms TTL=255
Reply from 192.168.10.1: bytes=32 time=0ms TTL=255

Ping statistics for 192.168.10.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 0ms, Maximum = 0ms, Average = 0ms

PC>ping 192.168.20.1

Pinging 192.168.20.1 with 32 bytes of data:

Reply from 192.168.20.1: bytes=32 time=7ms TTL=254
Reply from 192.168.20.1: bytes=32 time=4ms TTL=254
Reply from 192.168.20.1: bytes=32 time=1ms TTL=254
Reply from 192.168.20.1: bytes=32 time=5ms TTL=254

Ping statistics for 192.168.20.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 7ms, Average = 4ms

PC>ping 192.168.30.1

Pinging 192.168.30.1 with 32 bytes of data:

Reply from 192.168.30.1: bytes=32 time=13ms TTL=253
Reply from 192.168.30.1: bytes=32 time=9ms TTL=253
Reply from 192.168.30.1: bytes=32 time=2ms TTL=253
Reply from 192.168.30.1: bytes=32 time=9ms TTL=253

Ping statistics for 192.168.30.1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 2ms, Maximum = 13ms, Average = 8ms

PC>
```