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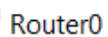
2811
Router1

2811
Router0

2811
Router2
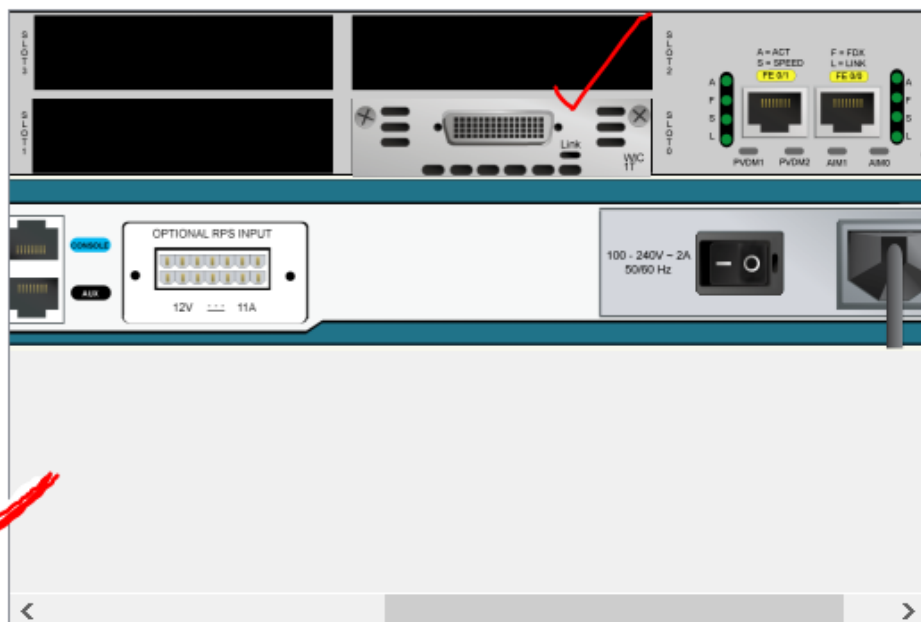
Router0

Physical Config CLI Attributes

Physical Device View

| Zoom In | Original Size | Zoom Out |

NM-2E2W
NM-2FE2W
NM-2W
NM-4A/S
NM-4E
NM-8A/S
NM-8AM
NM-Cover
NM-ESW-161
HWIC-1GE-SFP
HWIC-2T
HWIC-4ESW
HWIC-8A
HWIC-AP-AG-B
WIC-1AM
WIC-1ENET
WIC-1T
WIC-2AM

SLOT3
SLOT1
SLOT2
SLOT0

A = ACT
S = SPEED
F = FDX
L = LINK

FE 0/1   FE 0/0

Link

WIC 1T

PVDM1   PVDM2   AIM1   AIM0

CONSOLE

AUX

OPTIONAL RPS INPUT

12V 11A

100 - 240V ~ 2A
50/60 Hz

Router1

Physical   Config   CLI   Attributes

NM-1FE-TX
NM-1FE2W
NM-2E2W
NM-2FE2W
NM-2W
NM-4A/S
NM-4E
NM-8A/S
NM-8AM
NM-Cover
NM-ESW-161
HWIC-1GE-SFP
HWIC-2T
HWIC-4ESW
HWIC-8A
HWIC-AP-AG-B
WIC-1AM
WIC-1ENET
WIC-1T
WIC-2AM
WIC-2T

Physical Device View

Zoom In   Original Size   Zoom Out

OPTIONAL RPS INPUT

12V   11A

100 - 240V ~ 2A
50/60 Hz
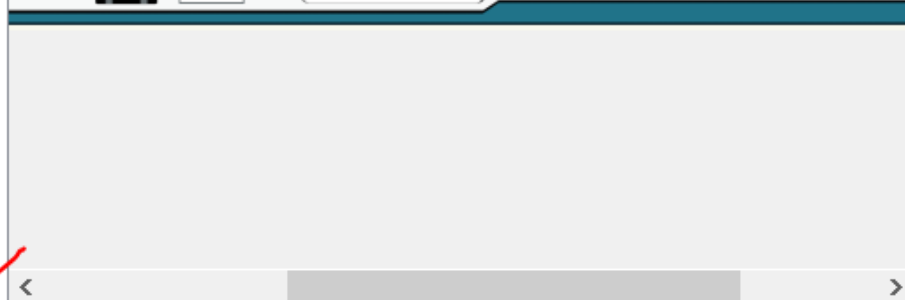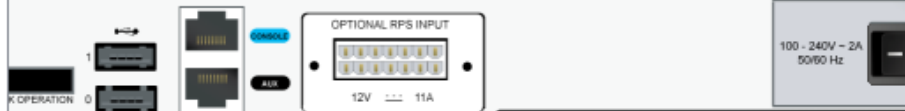
Customize
Icon in
Physical View

Customize
Icon in
Logical View

The WIC-1T provides a single port serial connection to remote sites or legacy serial network devices such as Synchronous Data Link Control (SDLC) concentrators, alarm systems, and packet over SONET (POS) devices.
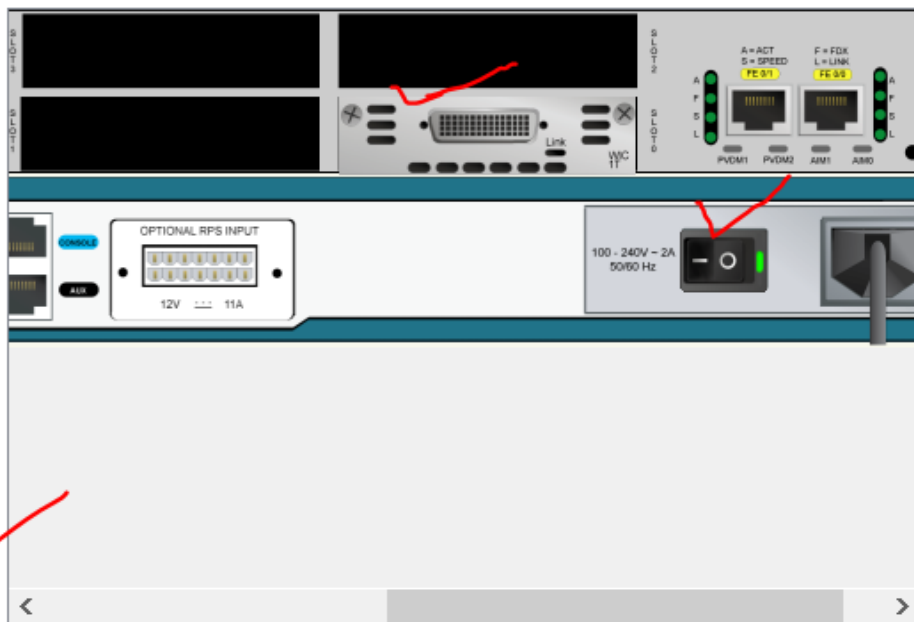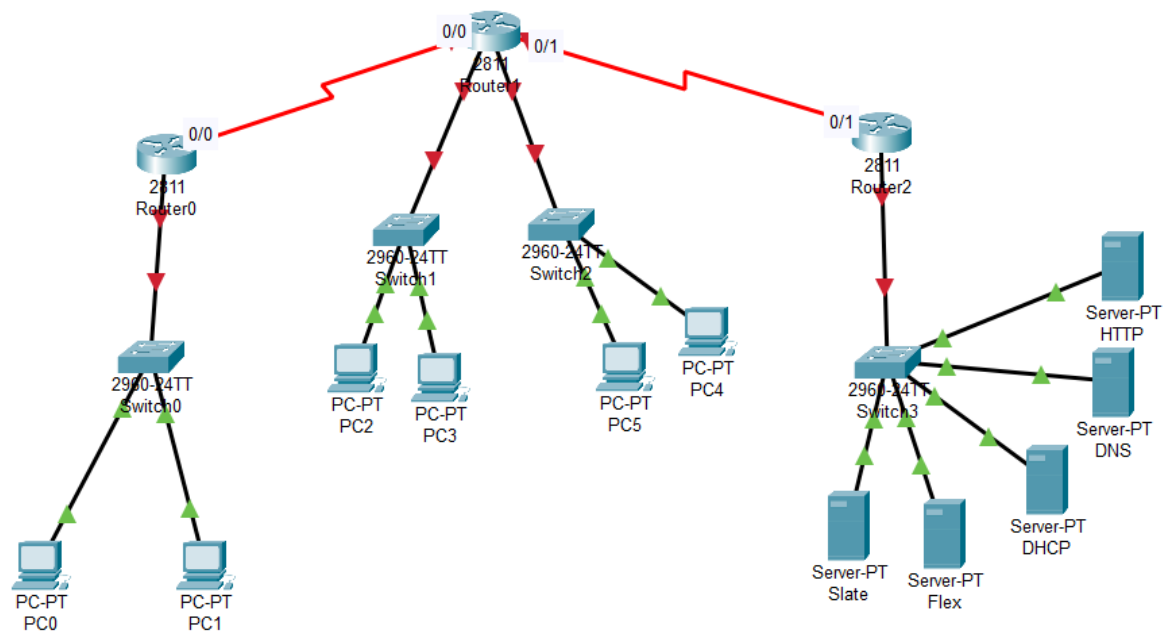
☐ Top

Router2

Physical | Config | CLI | Attributes

Physical Device View

| NM-2E2W |
| NM-2FE2W |
| NM-2W |
| NM-4A/S |
| NM-4E |
| NM-8A/S |
| NM-8AM |
| NM-Cover |
| NM-ESW-161 |
| HWIC-1GE-SFP |
| HWIC-2T |
| HWIC-4ESW |
| HWIC-8A |
| HWIC-AP-AG-B |
| WIC-1AM |
| WIC-1ENET |
| WIC-1T |
| WIC-2AM |
| WIC-2T |
| WIC-Cover |
| GLC-LH-SMD |

Zoom In | Original Size | Zoom Out

A = ACT   F = FDX
S = SPEED L = LINK
FE 0/1   FE 0/0

PVDM1 PVDM2 AIM1 AIM0

Link

WIC 1T

OPTIONAL RPS INPUT

CONSOLE

AUX

12V --- 11A

100 - 240V ~ 2A
50/60 Hz

Customize
Icon in
Physical View

Customize
Icon in
Logical View

Router0

Physical   Config   **CLI**   Attributes

IOS Command Line Interface

```
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)


        --- System Configuration Dialog ---

Would you like to enter the initial 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
% Incomplete command.
Router(config)#
Router(config)#
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.3.1 255.255.255.0
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
```

Copy   Paste

☐ Top

```
Router(config)#ip dhcp pool zeeshan1
Router(dhcp-config)#network 192.168.3.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.3.1
Router(dhcp-config)#exit
Router(config)#
```

```
Router(config)#
Router(config)#ip dhcp excluded-address 192.168.3.1
Router(config)#
Router(config)#
Router(config)#interface serial 0/0/0
Router(config-if)#ip address 192.168.1.1 255.255.255.0
Router(config-if)#clock rate 64000
Router(config-if)#no shutdown


%SYS-5-CONFIG_I: Configured from console by console

Router#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network 192.168.1.0
Router(config-router)#exit
Router(config)#
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

Copy

PC0 — □ ✕

Physical   Config   Desktop   Programming   Attributes

IP Configuration   X

Interface   FastEthernet0   ⌄

IP Configuration

◉ DHCP   ○ Static

IPv4 Address   192.168.3.2

Subnet Mask   255.255.255.0

Default Gateway   192.168.3.1

DNS Server   0.0.0.0

IPv6 Configuration

○ Automatic   ◉ Static

IPv6 Address   /

Link Local Address FE80::201:42FF:FEC5:24D

Default Gateway

DNS Server

802.1X

☐ Use 802.1X Security

Authentication   MD5   ⌄

Username

Router 2

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
2 FastEthernet interface(s)
1 Low-speed serial(sync/async) network interface(s)
DRAM configuration is 64 bits wide with parity disabled.
255K bytes of non-volatile configuration memory.
249856K bytes of ATA System CompactFlash 0 (Read/Write)


        --- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:

Press RETURN to get started!



Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 192.168.7.1 255.255.255.0
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
```
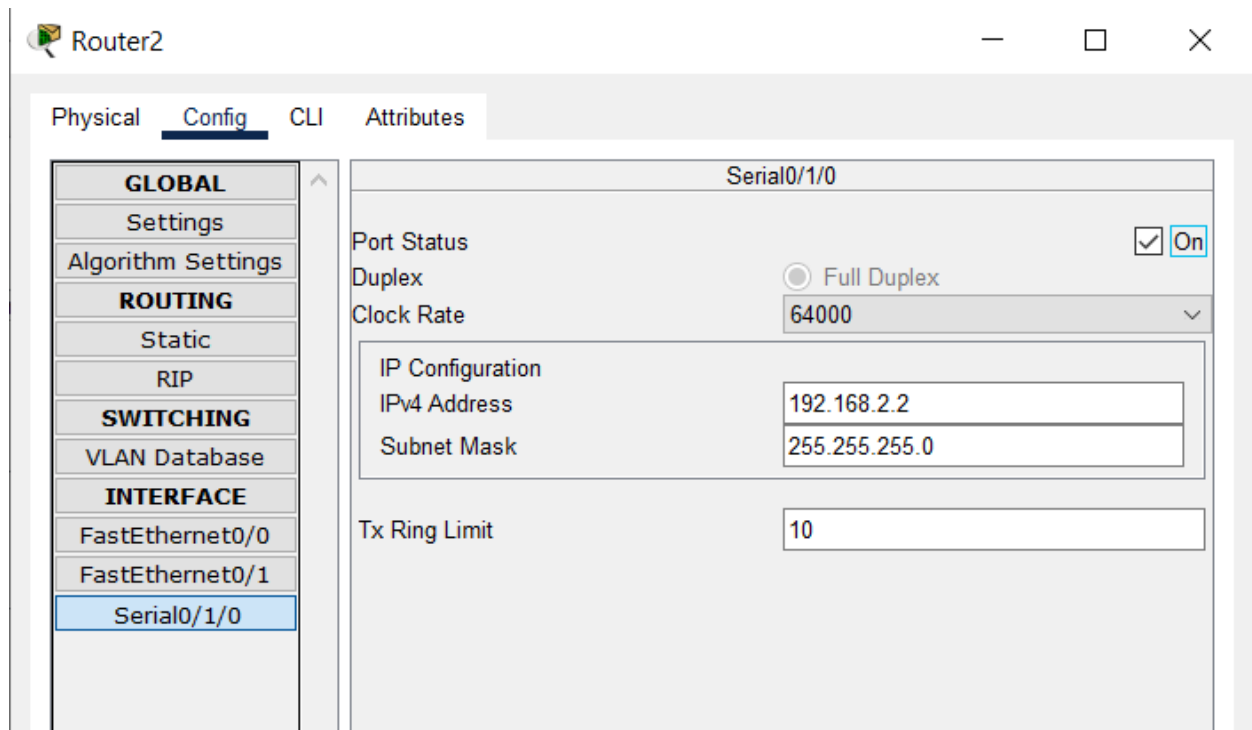
```
Router(config)#ip dhcp pool zeeshan2
Router(dhcp-config)#network 192.168.7.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.7.1
Router(dhcp-config)#exit
Router(config)#ip dhcp excluded-address 192.168.7.1
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

Recheck it

Router 1

Router1

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Router>
Router>
Router>enable
Router#
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#interface Serial0/0/0
Router(config-if)#ip address 192.168.1.2 255.255.255.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

Router(config-if)#exit
Router(config)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to
up
```

Copy   Paste

Router1

Physical | Config | CLI | Attributes

GLOBAL
- Settings
- Algorithm Settings

ROUTING
- Static
- RIP

SWITCHING
- VLAN Database

INTERFACE
- FastEthernet0/0
- FastEthernet0/1
- Serial0/0/0
- Serial0/1/0

FastEthernet0/0

Port Status	☑ On
Bandwidth	○ 100 Mbps ○ 10 Mbps ☑ Auto
Duplex	○ Half Duplex ○ Full Duplex ☑ Auto
MAC Address	0004.9AEB.7701

IP Configuration

IPv4 Address	192.168.4.1
Subnet Mask	255.255.255.0

Tx Ring Limit	10

```
Router(config-if)#exit
Router(config)#ip dhcp pool zeeshan3
Router(dhcp-config)#network 192.168.4.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.4.1
Router(dhcp-config)#exit
Router(config)#ip dhcp excluded-address 192.168.4.1
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

PC2

Physical | Config | **Desktop** | Programming | Attributes

IP Configuration   X

Interface   FastEthernet0 ⌄

IP Configuration

◉ DHCP   ○ Static   DHCP request successful.

IPv4 Address	192.168.4.2
Subnet Mask	255.255.255.0
Default Gateway	192.168.4.1
DNS Server	0.0.0.0

IPv6 Configuration

○ Automatic   ◉ Static

IPv6 Address	/
Link Local Address	FE80::20A:F3FF:FED8:426C
Default Gateway	

```
state to up
no ip address
Router(config-if)#ip address 192.168.5.1 255.255.255.0
Router(config-if)#ip address 192.168.5.1 255.255.255.0
Router(config-if)#exit
Router(config)#ip dhcp pool zeeshan4
Router(dhcp-config)#network 192.168.5.0 255.255.255.0
Router(dhcp-config)#default-router 192.168.5.1
Router(dhcp-config)#exit
Router(config)#ip dhcp excluded-address 192.168.5.1
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
```

Cop
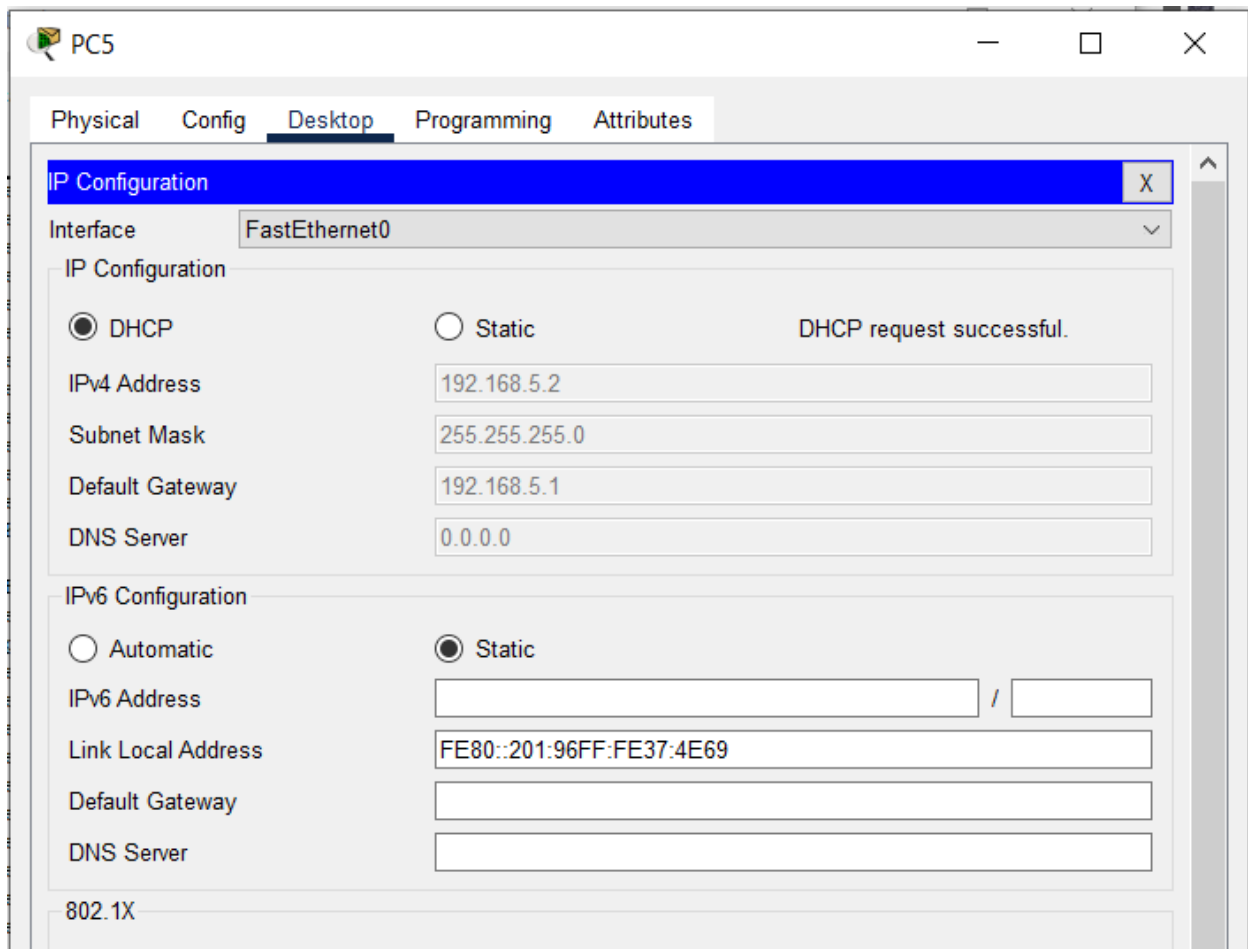
Config routers

```
Router#config terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network 192.168.3.0
Router(config-router)#network 192.168.1.0
Router(config-router)#exit
Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
```

```
Router>enable
Router#config t
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#router rip
Router(config-router)#network 192.168.7.0
Router(config-router)#network 192.168.2.0
Router(config-router)#exit
Router(config)#
```

```
Router(config-router)#network 192.168.1.0
Router(config-router)#network 192.168.2.0
Router(config-router)#network 192.168.4.0
Router(config-router)#network 192.168.5.0
```