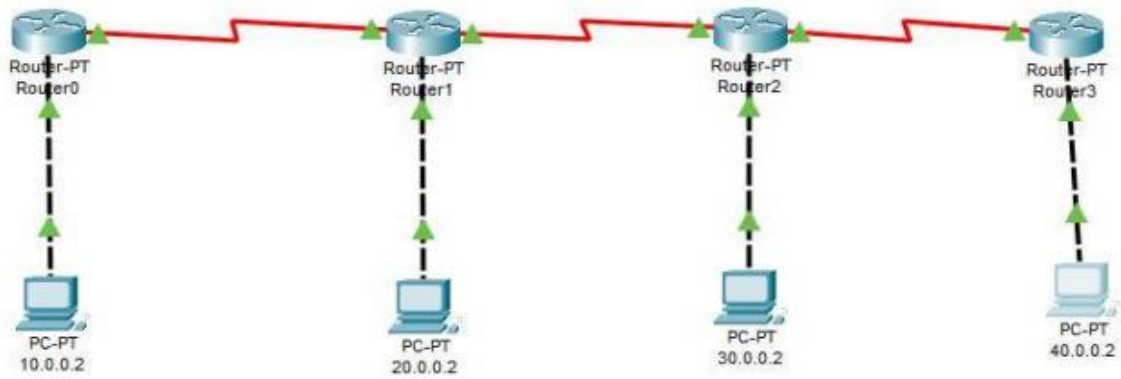


OUTPUTS:

Topology:



PC1 Configuration:

Physical Config **Desktop** Programming Attributes

IP Configuration [X]

Interface: FastEthernet0

IP Configuration

☐ DHCP ☒ Static

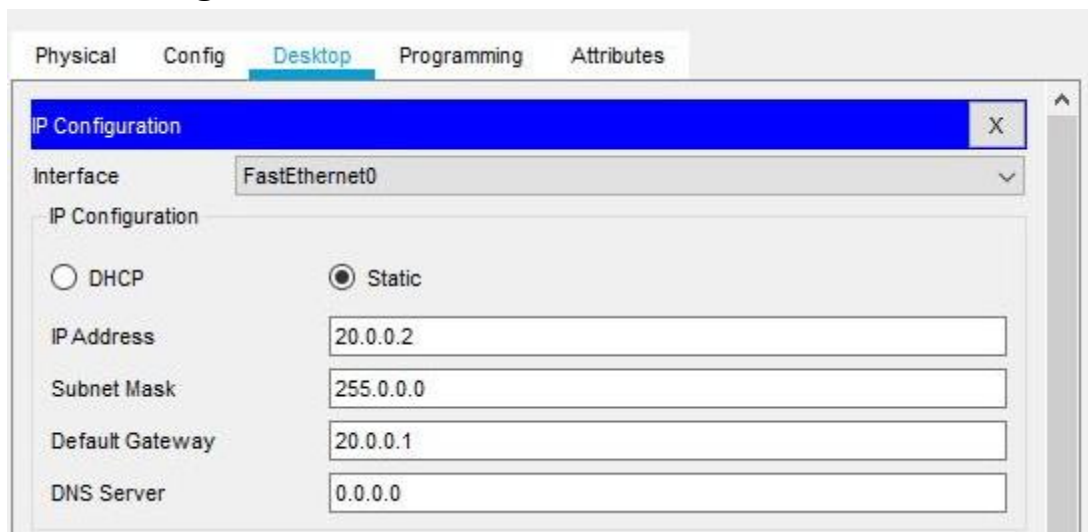
IP Address: 10.0.0.2

Subnet Mask: 255.0.0.0

Default Gateway: 10.0.0.1

DNS Server: 0.0.0.0

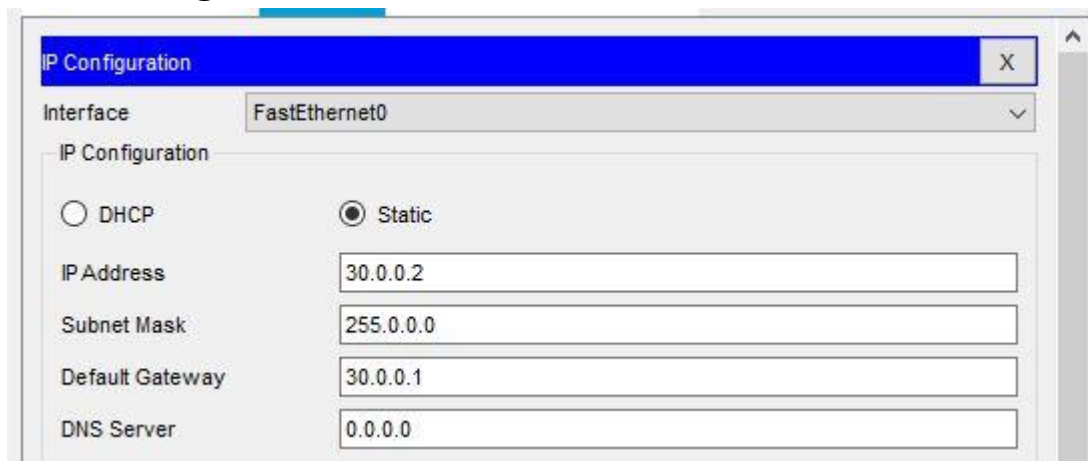
PC2 Configuration:



The image shows the 'IP Configuration' window for PC2. The 'Desktop' tab is selected. The 'Interface' is 'FastEthernet0'. The 'IP Configuration' section has 'Static' selected. The fields are: IP Address: 20.0.0.2, Subnet Mask: 255.0.0.0, Default Gateway: 20.0.0.1, and DNS Server: 0.0.0.0.

Field	Value
Interface	FastEthernet0
IP Configuration	<input type="radio"/> DHCP <input checked="" type="radio"/> Static
IP Address	20.0.0.2
Subnet Mask	255.0.0.0
Default Gateway	20.0.0.1
DNS Server	0.0.0.0

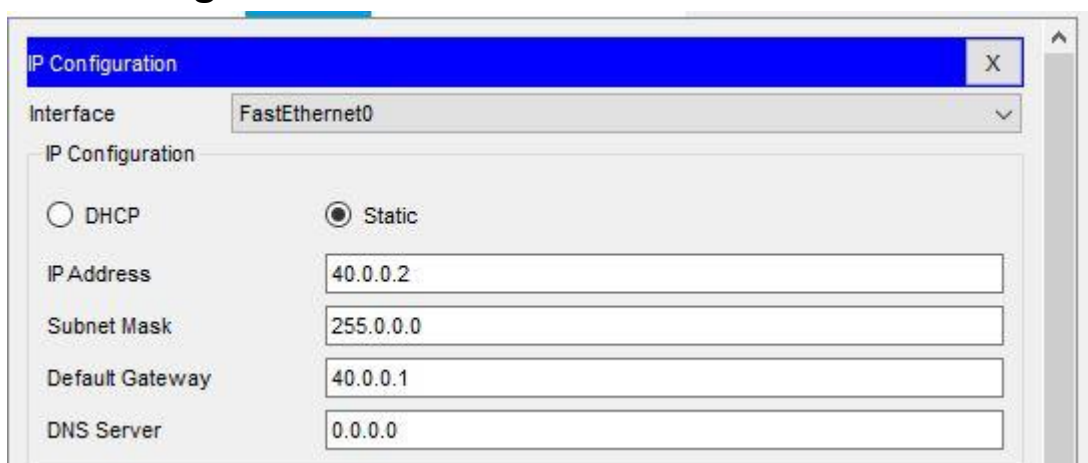
PC3 Configuration:



The image shows the 'IP Configuration' window for PC3. The 'Desktop' tab is selected. The 'Interface' is 'FastEthernet0'. The 'IP Configuration' section has 'Static' selected. The fields are: IP Address: 30.0.0.2, Subnet Mask: 255.0.0.0, Default Gateway: 30.0.0.1, and DNS Server: 0.0.0.0.

Field	Value
Interface	FastEthernet0
IP Configuration	<input type="radio"/> DHCP <input checked="" type="radio"/> Static
IP Address	30.0.0.2
Subnet Mask	255.0.0.0
Default Gateway	30.0.0.1
DNS Server	0.0.0.0

PC4 Configuration:



The image shows the 'IP Configuration' window for PC4. The 'Desktop' tab is selected. The 'Interface' is 'FastEthernet0'. The 'IP Configuration' section has 'Static' selected. The fields are: IP Address: 40.0.0.2, Subnet Mask: 255.0.0.0, Default Gateway: 40.0.0.1, and DNS Server: 0.0.0.0.

Field	Value
Interface	FastEthernet0
IP Configuration	<input type="radio"/> DHCP <input checked="" type="radio"/> Static
IP Address	40.0.0.2
Subnet Mask	255.0.0.0
Default Gateway	40.0.0.1
DNS Server	0.0.0.0

Router 1 Configuration:

```
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router ospf 10
Router(config-router)#network 1.0.0.0 0.255.255.255 area 1
Router(config-router)#network 10.0.0.0 0.255.255.255 area 1
Router(config-router)#exit
Router(config)#int se2/0
Router(config-if)#clock rate 64000
```

Router 2 Configuration:

```
Router(config)#router ospf 10
Router(config-router)#network 1.0.0.0 0.255.255.255 area 1
Router(config-router)#
00:27:03: %OSPF-5-ADJCHG: Process 10, Nbr 10.0.0.1 on Serial2/0 from
LOADING to FULL, Loading Done
network 1.0.0.0 0.255.255.255 area 1
Router(config-router)#network 1.0.0.0 0.255.255.255 area 1
Router(config-router)#network 2.0.0.0 0.255.255.255 area 1
Router(config-router)#network 20.0.0.0 0.255.255.255 area 1
Router(config-router)#exit
Router(config)#int se3/0
Router(config-if)#clock rate 64000
```

Router 3 Configuration:

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)# router ospf 10
Router(config-router)#network 2.0.0.0 0.255.255.255 area 2
Router(config-router)#network 3.0.0.0 0.255.255.255 area 2
Router(config-router)#network 30.0.0.0 0.255.255.255 area 2
Router(config-router)#eit
^
% Invalid input detected at '^' marker.

Router(config-router)#int se3/0
Router(config-if)#clock rate 64000
```

Router 4 Configuration:

```
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#router ospf 10
Router(config-router)#network 3.0.0.0 0.255.255.255 area 2
Router(config-router)#network 40.0.0.0 0.255.255.255 area 2
Router(config-router)#
```

Output (PC1- PC3):

```
Packet Tracer PC Command Line 1.0
C:\>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 20.0.0.2: bytes=32 time=1ms TTL=126
Reply from 20.0.0.2: bytes=32 time=3ms TTL=126
Reply from 20.0.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 20.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 3ms, Average = 1ms
```

Output (PC1- PC4):

```
Packet Tracer PC Command Line 1.0
C:\>ping 20.0.0.2

Pinging 20.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 20.0.0.2: bytes=32 time=1ms TTL=126
Reply from 20.0.0.2: bytes=32 time=3ms TTL=126
Reply from 20.0.0.2: bytes=32 time=1ms TTL=126

Ping statistics for 20.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 3ms, Average = 1ms
```