

EIGRP:

The screenshot shows a Cisco Packet Tracer network topology for EIGRP. The network consists of three routers (R1, R2, R3) and a PC (PC0). R1 is connected to R2 and R3. R2 is connected to R3. R1 is connected to PC0. R2 is connected to a Server-PT. R3 is connected to a Server-PT. The PC0 command prompt shows the following output:

```
Cisco 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=124
Reply from 20.0.0.2: bytes=32 time=1ms TTL=124
Reply from 20.0.0.2: bytes=32 time=1ms TTL=124

Ping statistics for 20.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 1ms, Average = 0ms

C:\>tracert 20.0.0.2

Tracing route to 20.0.0.2 over a maximum of 30 hops:
  0  0 ms  0 ms  0 ms  10.0.0.1
  1  0 ms  0 ms  0 ms  192.168.1.2
  2  0 ms  0 ms  0 ms  192.168.1.6
  3  0 ms  0 ms  0 ms  192.168.1.10
  4  0 ms  0 ms  0 ms  20.0.0.2

Trace complete.

C:\>
```

OSPF:

The screenshot shows a Cisco Packet Tracer network topology for OSPF. The network consists of three routers (R1, R2, R3) and a PC (PC0). R1 is connected to R2 and R3. R2 is connected to R3. R1 is connected to PC0. R2 is connected to a Server-PT. R3 is connected to a Server-PT. The PC0 command prompt shows the following output:

```
Cisco Packet Tracer PC Command Line 1.0
C:\>ping 50.0.0.2

Pinging 50.0.0.2 with 32 bytes of data:

Request timed out.
Reply from 50.0.0.2: bytes=32 time=1ms TTL=125
Reply from 50.0.0.2: bytes=32 time=1ms TTL=125
Reply from 50.0.0.2: bytes=32 time=1ms TTL=125

Ping statistics for 50.0.0.2:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\>tracert 50.0.0.2

Tracing route to 50.0.0.2 over a maximum of 30 hops:
  0  0 ms  0 ms  0 ms  10.0.0.1
  1  0 ms  0 ms  0 ms  20.0.0.2
  2  0 ms  0 ms  0 ms  40.0.0.2
  3  0 ms  0 ms  0 ms  50.0.0.2

Trace complete.

C:\>
```

Configuration of WLAN using static IP addressing:

The screenshot displays the Cisco Packet Tracer application window. The main workspace shows a network topology with a central 'Wireless Router' (WRT3020N) connected to two PCs, 'PC-PT PC0' and 'PC-PT PC1'. The interface includes a top menu bar (File, Edit, Options, View, Tools, Extensions, Window, Help) and a toolbar. A 'Logical' tab is active, showing the network diagram. A 'Command Prompt' window is open, displaying the output of a ping command from PC0 to 192.168.1.3. The output shows successful pings for the first four attempts, followed by a 'Request timed out' message, and then a summary of the ping statistics.

Feb 13 11:57

PacketTracer

File Edit Options View Tools Extensions Window Help

Logical Physical x 443, y 377

Wireless Router

PC-PT PC0

PC-PT PC1

Time: 00:20:55

PC Laptop Server Workstation Gateway Printer IP Phone Voice Device Phone TV Tablet Smart Phone Wireless

Scenario 0

New Delete

Toggle PDU List Window

File Last Status Source Destination Type Color Time(sec) Periodic Num Edit Delete

Command Prompt

```
Cisco Packet Tracer PC Command Line 1.0
C:\> ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Reply from 192.168.1.3: bytes=32 time=50ms TTL=128
Reply from 192.168.1.3: bytes=32 time=23ms TTL=128
Reply from 192.168.1.3: bytes=32 time=20ms TTL=128
Reply from 192.168.1.3: bytes=32 time=15ms TTL=128

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 15ms, Maximum = 50ms, Average = 28ms

C:\>ping 192.168.1.3

Pinging 192.168.1.3 with 32 bytes of data:

Request timed out.
Request timed out.
Request timed out.
Request timed out.

Ping statistics for 192.168.1.3:
    Packets: Sent = 4, Received = 0, Lost = 4 (100% loss),

C:\>
```