Lab 6

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Configuring OSPF commands

Router0 — IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router(config-router)#exit
Router(config)#interface Serial3/0
Router(config-if)#ip address 30.0.0.2 255.0.0.0
Router(config-if)#no shutdown

Router(config-if)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up

Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 30.0.0.0
Router(config-router)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

Router(config-router)#
Router(config-router)#exit
Router(config)#
Router(config)#interface FastEthernet1/0
Router(config-if)#exit
Router(config)#router
% Incomplete command.
Router(config)#router ospf 1
Router(config-router)#network 192.168.1.0 0.0.0.255 area 0
Router(config-router)#network 10.0.0.0 0.255.255.255 area 0
Router(config-router)#network 20.0.0.0 0.255.255.255 area 0
Router(config-router)#exit
Router(config)#
```

Router2 — IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router(config-router)#exit
Router(config)#interface Serial3/0
Router(config-if)#ip address 20.0.0.1 255.0.0.0
Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial3/0, changed state to down
Router(config-if)#
Router(config-if)#exit
Router(config)#router rip
Router(config-router)#network 20.0.0.0
Router(config-router)#
%LINK-5-CHANGED: Interface Serial3/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

Router(config-router)#exit
Router(config)#router ospf 2
Router(config-router)#network 20.0.0.0 0.255.255.255 area 0
                                  ^
% Invalid input detected at '^' marker.

Router(config-router)#network 20.0.0.0 0.255.255.255 area 0
Router(config-router)#network 30.0.0.0 0.255.255.255 area 0
Router(config-router)#exit
Router(config)#
00:14:53: %OSPF-5-ADJCHG: Process 2, Nbr 30.0.0.1 on Serial3/0 from LOADING to
FULL, Loading Done
```

Cisco Packet Tracer Student — Router1 — IOS Command Line Interface

```
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial3/0, changed state to up

Router(config-router)#eiexit
Router(config)#router ospf 3
Router(config-router)#network 20.0.0.0 0.255.255.255 area 0
Router(config-router)#network 20.0.0.0 0.255.255.255 area 0
00:14:55: %OSPF-5-ADJCHG: Process 3, Nbr 20.0network 30.0.0.0network 30.0.0.0
% Incomplete command.
Routernetwork 30.0.0.0network 30.0.0.0 0.255.255.255 area 0
Router(config-router)#ntnetwork 193.168.1.0 0.0.0.255 area 0
Router(config-router)#exit
Router(config)#
Router(config)#interface FastEthernet1/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#ip address 193.168.1.1 255.255.255.0
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-if)#exit
Router(config)#router rip
Router(config-router)#network 193.168.1.0
Router(config-router)#
```

PC-PT
PC0

192.168.1.11

Cisco Packet Tracer Student — PC0 — Command Prompt

```
PC>ping 193.168.1.11

Pinging 193.168.1.11 with 32 bytes of data:

Request timed out.
Reply from 193.168.1.11: bytes=32 time=3ms TTL=126
Reply from 193.168.1.11: bytes=32 time=3ms TTL=126
Reply from 193.168.1.11: bytes=32 time=3ms TTL=126

Ping statistics for 193.168.1.11:
    Packets: Sent = 4, Received = 3, Lost = 1 (25% loss),
Approximate round trip times in milli-seconds:
    Minimum = 3ms, Maximum = 3ms, Average = 3ms

PC>ping 193.168.1.11

Pinging 193.168.1.11 with 32 bytes of data:

Reply from 193.168.1.11: bytes=32 time=1ms TTL=126
Reply from 193.168.1.11: bytes=32 time=1ms TTL=126
Reply from 193.168.1.11: bytes=32 time=6ms TTL=126
Reply from 193.168.1.11: bytes=32 time=3ms TTL=126

Ping statistics for 193.168.1.11:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 6ms, Average = 2ms

PC>
```

PC-PT
PC0

192.168.1.11