ISP1#

ISP1#

ISP1#CONF T

Enter configuration commands, one per line. End with CNTL/Z.

ISP1(config)#IP ADD

ISP1(config)#INT G0/0

ISP1(config-if)#IP AD

ISP1(config-if)#IP ADD

ISP1(config-if)#IP ADDress 8.1.1.2 255.255.255.252

ISP1(config-if)#INT G1/0

ISP1(config-if)#IP ADDress 8.1.3.1 255.255.255.252

ISP1(config-if)#no sh

ISP1(config-if)#INT G0/0

\*Sep 27 21:03:56.239: %LINK-3-UPDOWN: Interface GigabitEthernet1/0, changed state to up

\*Sep 27 21:03:57.239: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0, changed state to up

ISP1(config-if)#INT G0/0

ISP1(config-if)#no sh

ISP1(config-if)#INT G1/0

\*Sep 27 21:04:01.415: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to up

\*Sep 27 21:04:02.415: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

ISP1(config-if)#INT G2/0

ISP1(config-if)#

ISP1(config-if)#^Z

ISP1#

\*Sep 27 21:04:30.339: %SYS-5-CONFIG\_I: Configured from console by console

ISP1#

ISP1#

ISP1#conf t

Enter configuration commands, one per line. End with CNTL/Z.

ISP1(config)#rout

ISP1(config)#router ospf 1

ISP1(config-router)#net

ISP1(config-router)#network 8.8.8.1 255.255.255.252

% Incomplete command.

ISP1(config-router)#network 8.8.8.1 0.0.0.0 area 0

ISP1(config-router)#network 8.8.3.1 0.0.0.0 area 0

ISP1(config-router)#^Z

ISP1#

\*Sep 27 21:08:03.815: %SYS-5-CONFIG\_I: Configured from console by console

ISP1#sh ip ospf int

ISP1#sh ip ospf interface bri

ISP1#sh ip ospf interface brief

ISP1#

ISP1#

ISP1#sh ip ospf int brief

ISP1#sh ip int brief

Interface IP-Address OK? Method Status Protocol

Ethernet0/0 unassigned YES unset administratively down down

GigabitEthernet0/0 8.1.1.2 YES manual up up

GigabitEthernet1/0 8.1.3.1 YES manual up up

GigabitEthernet2/0 unassigned YES unset administratively down down

GigabitEthernet3/0 unassigned YES unset administratively down down

ISP1#

ISP1#CONF T

Enter configuration commands, one per line. End with CNTL/Z.

ISP1(config)#INT LO

ISP1(config)#INT LOO

ISP1(config)#INT LOOpback

% Incomplete command.

ISP1(config)#INT LOOpback 0

ISP1(config-if)#network 8.8.8.1 255.255.255.252

\*Sep 27 21:12:53.827: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

ISP1(config-if)#IP ADDress 8.8.8.1 255.255.255.255

ISP1(config-if)#no sh

ISP1(config-if)#^Z

ISP1#s

\*Sep 27 21:15:37.847: %SYS-5-CONFIG\_I: Configured from console by console

ISP1#sh ip ospf int brief

Interface PID Area IP Address/Mask Cost State Nbrs F/C

Lo0 1 0 8.8.8.1/32 1 LOOP 0/0

ISP1#sh ip int brief

Interface IP-Address OK? Method Status Protocol

Ethernet0/0 unassigned YES unset administratively down down

GigabitEthernet0/0 8.1.1.2 YES manual up up

GigabitEthernet1/0 8.1.3.1 YES manual up up

GigabitEthernet2/0 unassigned YES unset administratively down down

GigabitEthernet3/0 unassigned YES unset administratively down down

Loopback0 8.8.8.1 YES manual up up

ISP1#ROUT

ISP1#ROUTER

ISP1#CONF T

Enter configuration commands, one per line. End with CNTL/Z.

ISP1(config)#ROUTER OSPF 1

ISP1(config-router)#NO NET

ISP1(config-router)#NO NETwork 8.8.3.1 0.0.0.0 ARE

ISP1(config-router)#NO NETwork 8.8.3.1 0.0.0.0 AREa 0

ISP1(config-router)#NET

ISP1(config-router)#NETwork 8.1.3.1 0.0.0.0 AREA 0

ISP1(config-router)#^Z

ISP1#W

\*Sep 27 21:20:01.251: %SYS-5-CONFIG\_I: Configured from console by console

ISP1#WR

Warning: Attempting to overwrite an NVRAM configuration previously written

by a different version of the system image.

Overwrite the previous NVRAM configuration?[confirm]

Building configuration...

[OK]

ISP1#sh ip ospf int brief

Interface PID Area IP Address/Mask Cost State Nbrs F/C

Lo0 1 0 8.8.8.1/32 1 LOOP 0/0

Gi1/0 1 0 8.1.3.1/30 1 WAIT 0/0

ISP1#CONF T

Enter configuration commands, one per line. End with CNTL/Z.

ISP1(config)#ROUTER

ISP1(config)#ROUTER BGP 65001

ISP1(config-router)#NETW

ISP1(config-router)#NIEI

ISP1(config-router)#Nei

ISP1(config-router)#Neighbor 8.1.1.1 remo

ISP1(config-router)#Neighbor 8.1.1.1 remot

ISP1(config-router)#Neighbor 8.1.1.1 remote-as 65000

ISP1(config-router)#Neighbor 8.1.1.1 remote-as 65000

\*Sep 27 21:22:12.987: %BGP-5-ADJCHANGE: neighbor 8.1.1.1 Up

ISP1(config-router)#Neighbor 8.8.8.3 remote-as 65001

ISP1(config-router)#net

ISP1(config-router)#network 8.1.1.0 mask 255.255.255.252

ISP1(config-router)#network 8.8.8.1 mask 255.255.255.255

ISP1(config-router)#network 8.1.3.0 mask 255.255.255.252

ISP1(config-router)#^Z

ISP1#

\*Sep 27 21:24:31.407: %SYS-5-CONFIG\_I: Configured from console by console

ISP1#sh ip bgp

BGP table version is 5, local router ID is 8.8.8.1

Status codes: s suppressed, d damped, h history, \* valid, > best, i - internal,

r RIB-failure, S Stale, m multipath, b backup-path, f RT-Filter,

x best-external, a additional-path, c RIB-compressed,

Origin codes: i - IGP, e - EGP, ? - incomplete

RPKI validation codes: V valid, I invalid, N Not found

Network Next Hop Metric LocPrf Weight Path

\*> 8.1.1.0/30 0.0.0.0 0 32768 i

\*> 8.1.3.0/30 0.0.0.0 0 32768 i

\*> 8.8.8.1/32 0.0.0.0 0 32768 i

\*> 17.1.1.0/30 8.1.1.1 0 0 65000 i

ISP1#wr

Building configuration...

[OK]

ISP1#sh ip bgp sum

ISP1#sh ip bgp summary

BGP router identifier 8.8.8.1, local AS number 65001

BGP table version is 5, main routing table version 5

4 network entries using 592 bytes of memory

4 path entries using 256 bytes of memory

2/2 BGP path/bestpath attribute entries using 272 bytes of memory

1 BGP AS-PATH entries using 24 bytes of memory

0 BGP route-map cache entries using 0 bytes of memory

0 BGP filter-list cache entries using 0 bytes of memory

BGP using 1144 total bytes of memory

BGP activity 4/0 prefixes, 4/0 paths, scan interval 60 secs

Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd

8.1.1.1 4 65000 11 12 5 0 0 00:06:05 1

8.8.8.3 4 65001 0 0 1 0 0 never Idle

ISP1#wr

Building configuration...

[OK]

ISP1#ISP1#