Press RETURN to get started!

\*Sep 27 20:42:52.059: %IFMGR-7-NO\_IFINDEX\_FILE: Unable to open nvram:/ifIndex-ta ble No such file or directory

\*Sep 27 20:42:52.335: %PLATFORM-3-PACONFIG: Exceeds 600 bandwidth points for slo ts 0, 1, 3 & 5

\*Sep 27 20:43:06.275: %LINEPROTO-5-UPDOWN: Line protocol on Interface VoIP-Null0 , changed state to up

\*Sep 27 20:43:06.283: %LINK-3-UPDOWN: Interface Ethernet0/0, changed state to up

\*Sep 27 20:43:06.291: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed stat e to up

\*Sep 27 20:43:06.299: %LINK-3-UPDOWN: Interface GigabitEthernet1/0, changed stat e to up

\*Sep 27 20:43:06.307: %LINK-3-UPDOWN: Interface GigabitEthernet2/0, changed stat e to up

\*Sep 27 20:43:06.315: %LINK-3-UPDOWN: Interface GigabitEthernet3/0, changed stat e to up

\*Sep 27 20:43:07.131: %SYS-5-CONFIG\_I: Configured from memory by console

\*Sep 27 20:43:07.351: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/ 0, changed state to down

\*Sep 27 20:43:07.355: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth ernet0/0, changed state to down

\*Sep 27 20:43:07.355: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth ernet1/0, changed state to down

\*Sep 27 20:43:07.359: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth ernet2/0, changed state to down

\*Sep 27 20:43:07.363: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth ernet3/0, changed state to down

\*Sep 27 20:43:07.583: %SYS-5-RESTART: System restarted --

Cisco IOS Software, 7200 Software (C7200-ADVENTERPRISEK9-M), Version 15.2(4)M7, RELEASE SOFTWARE (fc2)

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Compiled Thu 25-Sep-14 10:36 by prod\_rel\_team

\*Sep 27 20:43:07.611: %SNMP-5-COLDSTART: SNMP agent on host ISP4 is undergoing a cold start

\*Sep 27 20:43:07.767: %CRYPTO-6-ISAKMP\_ON\_OFF: ISAKMP is OFF

\*Sep 27 20:43:07.767: %CRYPTO-6-GDOI\_ON\_OFF: GDOI is OFF

\*Sep 27 20:43:09.139: %LINK-5-CHANGED: Interface Ethernet0/0, changed state to a dministratively down

\*Sep 27 20:43:09.151: %LINK-5-CHANGED: Interface GigabitEthernet0/0, changed sta te to administratively down

\*Sep 27 20:43:09.159: %LINK-5-CHANGED: Interface GigabitEthernet1/0, changed sta te to administratively down

\*Sep 27 20:43:09.171: %LINK-5-CHANGED: Interface GigabitEthernet2/0, changed sta te to administratively down

\*Sep 27 20:43:09.179: %LINK-5-CHANGED: Interface GigabitEthernet3/0, changed sta te to administratively down

ISP4#

ISP4#CONF T

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

ISP4(config)#INT G0/0

ISP4(config-if)#IP AD

ISP4(config-if)#IP ADD

ISP4(config-if)#IP ADDress 8.1.2.2 255.255.255.252

ISP4(config-if)#NO SH

ISP4(config-if)#NO SH

\*Sep 27 22:10:57.387: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to up

\*Sep 27 22:10:58.387: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

ISP4(config-if)#IP ADDress 8.1.2.2 25^Z255.255.252

ISP4#C

\*Sep 27 22:11:03.823: %SYS-5-CONFIG\_I: Configured from console by console

ISP4#CONF T

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

ISP4(config)#INT G1/0

ISP4(config-if)#IP ADDress 8.1.4.1 255.255.255.252

ISP4(config-if)#NO SH

ISP4(config-if)#IN

\*Sep 27 22:11:33.191: %LINK-3-UPDOWN: Interface GigabitEthernet1/0, changed state to up

\*Sep 27 22:11:34.191: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0, changed state to up

ISP4(config-if)#INT LOO

ISP4(config-if)#INT LOU

ISP4(config-if)#INT LOUB

ISP4(config-if)#INT LOOP

ISP4(config-if)#INT LOOPBA

ISP4(config-if)#INT LOOPBACK

ISP4(config-if)#INT LOOPBACK

ISP4(config-if)#INT LOOPBACK

ISP4(config-if)#INT LOOPBACK

ISP4(config-if)#^Z

ISP4#CO

\*Sep 27 22:11:58.551: %SYS-5-CONFIG\_I: Configured from console by console

ISP4#CONF T

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

ISP4(config)#INT LOOP

ISP4(config)#INT LOOPback 0

ISP4(config-if)#IP A

\*Sep 27 22:12:13.663: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

ISP4(config-if)#IP ADD 8.8.8.4 255.255.255.255

ISP4(config-if)#NO SH

ISP4(config-if)#^Z

ISP4#

\*Sep 27 22:13:00.463: %SYS-5-CONFIG\_I: Configured from console by console

ISP4#sh ip brief

^

% Invalid input detected at '^' marker.

ISP4#sh ip int brief

Interface IP-Address OK? Method Status Protocol

Ethernet0/0 unassigned YES unset administratively down down

GigabitEthernet0/0 8.1.2.2 YES manual up up

GigabitEthernet1/0 8.1.4.1 YES manual up up

GigabitEthernet2/0 unassigned YES unset administratively down down

GigabitEthernet3/0 unassigned YES unset administratively down down

Loopback0 8.8.8.4 YES manual up up

ISP4#conf t

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

ISP4(config)#router ospf 1

ISP4(config-router)#netw

ISP4(config-router)#network 8.8.8.4 0.0.0.0 area 0

ISP4(config-router)#netw

ISP4(config-router)#network 8.1.4.1 0.0.0.0 area 0

ISP4(config-router)#rou

ISP4(config-router)#router bgp 65001

ISP4(config-router)#nei

ISP4(config-router)#neighbor 8.1.2.1 remo

ISP4(config-router)#neighbor 8.1.2.1 remot

ISP4(config-router)#neighbor 8.1.2.1 remote-as 6500

ISP4(config-router)#

\*Sep 27 22:16:04.527: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 passive 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:16:04.531: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

\*Sep 27 22:16:04.971: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 active 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:16:04.971: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#

\*Sep 27 22:16:10.027: %BGP\_SESSION-5-ADJCHANGE: neighbor 8.1.2.1 IPv4 Unicast topology base removed from session BGP Notifi cation sent

ISP4(config-router)#

\*Sep 27 22:16:15.791: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 passive 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:16:15.791: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

\*Sep 27 22:16:17.231: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 active 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:16:17.231: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#

\*Sep 27 22:16:22.315: %BGP\_SESSION-5-ADJCHANGE: neighbor 8.1.2.1 IPv4 Unicast topology base removed from session BGP Notifi cation sent

ISP4(config-router)#

\*Sep 27 22:16:29.099: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 passive 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:16:29.099: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#

\*Sep 27 22:16:35.663: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 active 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:16:35.663: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#

\*Sep 27 22:16:38.315: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 passive 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:16:38.319: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#

\*Sep 27 22:16:40.747: %BGP\_SESSION-5-ADJCHANGE: neighbor 8.1.2.1 IPv4 Unicast topology base removed from session BGP Notifi cation sent

ISP4(config-router)#

\*Sep 27 22:16:47.527: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 passive 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:16:47.527: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#

\*Sep 27 22:16:53.091: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 active 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:16:53.091: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#

\*Sep 27 22:16:55.719: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 passive 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:16:55.723: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#

\*Sep 27 22:16:58.155: %BGP\_SESSION-5-ADJCHANGE: neighbor 8.1.2.1 IPv4 Unicast topology base removed from session BGP Notifi cation sent

ISP4(config-router)#

\*Sep 27 22:17:07.411: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 active 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:17:07.411: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#

\*Sep 27 22:17:09.035: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 passive 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:17:09.035: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#

\*Sep 27 22:17:12.491: %BGP\_SESSION-5-ADJCHANGE: neighbor 8.1.2.1 IPv4 Unicast topology base removed from session BGP Notifi cation sent

ISP4(config-router)#

\*Sep 27 22:17:16.203: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 passive 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:17:16.203: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#

\*Sep 27 22:17:21.747: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 active 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#

\*Sep 27 22:17:21.747: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#neighbor 8.1.2.1 remote-as 6500

\*Sep 27 22:17:26.827: %BGP\_SESSION-5-ADJCHANGE: neighbor 8.1.2.1 IPv4 Unicast topology base removed from session BGP Notifi cation sent

ISP4(config-router)#neighbor 8.1.2.1 remote-as 6500

\*Sep 27 22:17:29.515: %BGP-3-NOTIFICATION: sent to neighbor 8.1.2.1 passive 2/2 (peer in wrong AS) 2 bytes FDE8

ISP4(config-router)#neighbor 8.1.2.1 remote-as 6500

\*Sep 27 22:17:29.515: %BGP-4-MSGDUMP: unsupported or mal-formatted message received from 8.1.2.1:

FFFF FFFF FFFF FFFF FFFF FFFF FFFF FFFF 0039 0104 FDE8 00B4 1101 0102 1C02 0601

0400 0100 0102 0280 0002 0202 0002 0246 0002 0641 0400 00FD E8

ISP4(config-router)#NO neighbor 8.1.2.1 remote-as 6500

ISP4(config-router)#neighbor 8.1.2.1 remote-as 65000

ISP4(config-router)#

\*Sep 27 22:17:47.991: %BGP-5-ADJCHANGE: neighbor 8.1.2.1 Up

ISP4(config-router)#NO neighbor 8.1.2.1 remote-as 65000

ISP4(config-router)#neighbor 8.1.2.1 remote-as 65000

\*Sep 27 22:34:09.235: %BGP\_SESSION-5-ADJCHANGE: neighbor 8.1.2.1 IPv4 Unicast topology base removed from session Neighbor d eleted

\*Sep 27 22:34:09.239: %BGP-5-ADJCHANGE: neighbor 8.1.2.1 Down Neighbor deleted

ISP4(config-router)#neighbor 8.1.2.1 remote-as 65000

ISP4(config-router)#

\*Sep 27 22:34:49.979: %BGP-5-ADJCHANGE: neighbor 8.1.2.1 Up

ISP4(config-router)#neighbor 8.8.8.3 REM

ISP4(config-router)#neighbor 8.8.8.3 REMoT

ISP4(config-router)#neighbor 8.8.8.3 REMoTe-as 65001

ISP4(config-router)#NET

ISP4(config-router)#NETwork 8.1.2.0 MAS

ISP4(config-router)#NETwork 8.1.2.0 MASk 255.255.255.252

ISP4(config-router)#NETwork 8.8.8.4 MASk 255.255.255.255

ISP4(config-router)#NETwork 8.1.4.0 MASk 255.255.255.252

ISP4(config-router)#^Z

ISP4#WR

Warning: Attempting to overwrite an NVRAM configuration previously written

by a different version of the system image.

Overwrite the previous NVRAM configuration?[confirm]

\*Sep 27 22:37:45.483: %SYS-5-CONFIG\_I: Configured from console by console

[confirm]

Building configuration...

[OK]

ISP4#

ISP4#SH IP BGP

BGP table version is 7, local router ID is 8.8.8.4

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

\*> 8.1.2.0/30 0.0.0.0 0 32768 i

\*> 8.1.4.0/30 0.0.0.0 0 32768 i

\*> 8.8.8.4/32 0.0.0.0 0 32768 i

\*> 17.1.1.0/30 8.1.2.1 0 0 65000 i

ISP4#

\*Sep 27 22:41:29.059: %OSPF-5-ADJCHG: Process 1, Nbr 8.8.8.3 on GigabitEthernet1/0 from LOADING to FULL, Loading Done

ISP4#

\*Sep 27 22:45:06.611: %BGP-5-ADJCHANGE: neighbor 8.8.8.3 Up

ISP4#sh run | sec bgp

router bgp 65001

bgp log-neighbor-changes

network 8.1.2.0 mask 255.255.255.252

network 8.1.4.0 mask 255.255.255.252

network 8.8.8.4 mask 255.255.255.255

neighbor 8.1.2.1 remote-as 65000

neighbor 8.8.8.3 remote-as 65001

ISP4#conf t

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

ISP4(config)#rout

ISP4(config)#router bgp 65001

ISP4(config-router)#nei

ISP4(config-router)#neighbor 8.8.8.3 up

ISP4(config-router)#neighbor 8.8.8.3 update-source loob

ISP4(config-router)#neighbor 8.8.8.3 update-source loo

ISP4(config-router)#neighbor 8.8.8.3 update-source loopback 0

ISP4(config-router)#^Z

ISP4#sh run | sec bgp

\*Sep 27 22:51:26.255: %SYS-5-CONFIG\_I: Configured from console by console

ISP4#sh run | sec bgp

router bgp 65001

bgp log-neighbor-changes

network 8.1.2.0 mask 255.255.255.252

network 8.1.4.0 mask 255.255.255.252

network 8.8.8.4 mask 255.255.255.255

neighbor 8.1.2.1 remote-as 65000

neighbor 8.8.8.3 remote-as 65001

neighbor 8.8.8.3 update-source Loopback0

ISP4#SH IP int bri

ISP4#SH IP int brief

Interface IP-Address OK? Method Status Protocol

Ethernet0/0 unassigned YES unset administratively down down

GigabitEthernet0/0 8.1.2.2 YES manual up up

GigabitEthernet1/0 8.1.4.1 YES manual up up

GigabitEthernet2/0 unassigned YES unset administratively down down

GigabitEthernet3/0 unassigned YES unset administratively down down

Loopback0 8.8.8.4 YES manual up up

ISP4#wr

Building configuration...

[OK]

ISP4#sh ip bgp su

ISP4#sh ip bgp summary

BGP router identifier 8.8.8.4, local AS number 65001

BGP table version is 7, main routing table version 7

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 5/1 prefixes, 5/1 paths, scan interval 60 secs

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

8.1.2.1 4 65000 30 27 7 0 0 00:20:53 1

8.8.8.3 4 65001 17 17 7 0 0 00:10:36 0

ISP4#wr

Building configuration...

[OK]

ISP4#

\*Sep 27 23:01:09.047: %BGP-5-ADJCHANGE: neighbor 8.8.8.3 Down Peer closed the session

\*Sep 27 23:01:09.047: %BGP\_SESSION-5-ADJCHANGE: neighbor 8.8.8.3 IPv4 Unicast topology base removed from session Peer close d the session

\*Sep 27 23:01:09.791: %BGP-5-ADJCHANGE: neighbor 8.8.8.3 Up

ISP4#

\*Sep 27 23:10:23.435: %BGP-5-ADJCHANGE: neighbor 8.1.2.1 Down Peer closed the session

\*Sep 27 23:10:23.439: %BGP\_SESSION-5-ADJCHANGE: neighbor 8.1.2.1 IPv4 Unicast topology base removed from session Peer close d the session

\*Sep 27 23:10:23.991: %BGP-5-ADJCHANGE: neighbor 8.1.2.1 Up

ISP4#