Press RETURN to get started!

\*Sep 27 20:42:52.075: %IFMGR-7-NO\_IFINDEX\_FILE: Unable to open nvram:/ifIndex-ta ble No such file or directory

\*Sep 27 20:42:52.355: %PLATFORM-3-PACONFIG: Exceeds 600 bandwidth points for slo ts 0, 1, 3 & 5

\*Sep 27 20:43:06.287: %LINEPROTO-5-UPDOWN: Line protocol on Interface VoIP-Null0 , changed state to up

\*Sep 27 20:43:06.295: %LINK-3-UPDOWN: Interface Ethernet0/0, changed state to up

\*Sep 27 20:43:06.303: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed stat e to up

\*Sep 27 20:43:06.311: %LINK-3-UPDOWN: Interface GigabitEthernet1/0, changed stat e to up

\*Sep 27 20:43:06.319: %LINK-3-UPDOWN: Interface GigabitEthernet2/0, changed stat e to up

\*Sep 27 20:43:06.327: %LINK-3-UPDOWN: Interface GigabitEthernet3/0, changed stat e to up

\*Sep 27 20:43:07.167: %SYS-5-CONFIG\_I: Configured from memory by console

\*Sep 27 20:43:07.391: %LINEPROTO-5-UPDOWN: Line protocol on Interface Ethernet0/ 0, changed state to down

\*Sep 27 20:43:07.395: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth ernet0/0, changed state to down

\*Sep 27 20:43:07.399: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth ernet1/0, changed state to down

\*Sep 27 20:43:07.403: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth ernet2/0, changed state to down

\*Sep 27 20:43:07.403: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEth ernet3/0, changed state to down

\*Sep 27 20:43:07.615: %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 20:43:07.639: %SNMP-5-COLDSTART: SNMP agent on host ISP5 is undergoing a cold start

\*Sep 27 20:43:07.779: %CRYPTO-6-ISAKMP\_ON\_OFF: ISAKMP is OFF

\*Sep 27 20:43:07.779: %CRYPTO-6-GDOI\_ON\_OFF: GDOI is OFF

\*Sep 27 20:43:09.171: %LINK-5-CHANGED: Interface Ethernet0/0, changed state to a dministratively down

\*Sep 27 20:43:09.183: %LINK-5-CHANGED: Interface GigabitEthernet0/0, changed sta te to administratively down

\*Sep 27 20:43:09.195: %LINK-5-CHANGED: Interface GigabitEthernet1/0, changed sta te to administratively down

\*Sep 27 20:43:09.203: %LINK-5-CHANGED: Interface GigabitEthernet2/0, changed sta te to administratively down

\*Sep 27 20:43:09.215: %LINK-5-CHANGED: Interface GigabitEthernet3/0, changed sta te to administratively down

ISP5#

ISP5#

ISP5#conf t

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

ISP5(config)#int g0/0

ISP5(config-if)#ip add 8.1.6.2 255.255.255.252

ISP5(config-if)#no sh

ISP5(config-if)#

\*Sep 27 23:57:43.351: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to up

\*Sep 27 23:57:44.351: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

ISP5(config-if)#int g1/0

ISP5(config-if)#ip add 8.1.8.1 255.255.255.252

ISP5(config-if)#no sh

ISP5(config-if)#^Z

ISP5#

\*Sep 27 23:58:20.823: %LINK-3-UPDOWN: Interface GigabitEthernet1/0, changed state to up

\*Sep 27 23:58:21.823: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet1/0, changed state to up

ISP5#

\*Sep 27 23:58:21.935: %SYS-5-CONFIG\_I: Configured from console by console

ISP5#conf t

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

ISP5(config)#int loo

ISP5(config)#int loopback 0

ISP5(config-if)#ip add

\*Sep 27 23:58:31.839: %LINEPROTO-5-UPDOWN: Line protocol on Interface Loopback0, changed state to up

ISP5(config-if)#ip add 8.8.8.5 255.255.255.255

ISP5(config-if)#^Z

ISP5#

\*Sep 27 23:58:47.907: %SYS-5-CONFIG\_I: Configured from console by console

ISP5#conf t

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

ISP5(config)#rout

ISP5(config)#router ospf 1

ISP5(config-router)#netw

ISP5(config-router)#network 8.8.8.5 0.0.0.0 area 0

ISP5(config-router)#network 8.1.6.2 0.0.0.0 area 0

ISP5(config-router)#network 8.1. 0.0.0.0 area 0

\*Sep 27 23:59:54.063: %OSPF-5-ADJCHG: Process 1, Nbr 8.8.8.3 on GigabitEthernet0/0 from LOADING to FULL, Loading Done

ISP5(config-router)#network 8.1.8.1 0.0.0.0 area 0

ISP5(config-router)#no network 8.1.8.1 0.0.0.0 area 0

ISP5(config-router)#router bgp 65001

ISP5(config-router)#nie

ISP5(config-router)#nei

ISP5(config-router)#neighbor 8.1.8.1 remo

ISP5(config-router)#neighbor 8.1.8.1 remot

ISP5(config-router)#neighbor 8.1.8.1 remote-as 65001

% Cannot configure the local system as neighbor

ISP5(config-router)#neighbor 8.8.8.3 remote-as 65001

ISP5(config-router)#neighbor 8.8.8.3 remote-as 65001

\*Sep 28 00:02:09.183: %BGP-5-ADJCHANGE: neighbor 8.8.8.3 Up

ISP5(config-router)#neighbor 8.8.8.3 up

ISP5(config-router)#neighbor 8.8.8.3 update-source loo

ISP5(config-router)#neighbor 8.8.8.3 update-source loopback 0

ISP5(config-router)#^Z

ISP5#sh

\*Sep 28 00:02:31.227: %SYS-5-CONFIG\_I: Configured from console by console

ISP5#sh ip ospf brie

ISP5#sh ip ospf brief

^

% Invalid input detected at '^' marker.

ISP5#sh ip ospf brief

^

% Invalid input detected at '^' marker.

ISP5#sh ip ospf int brief

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

Lo0 1 0 8.8.8.5/32 1 LOOP 0/0

Gi0/0 1 0 8.1.6.2/30 1 BDR 1/1

ISP5#sh ip bgp sum

ISP5#sh ip bgp summary

BGP router identifier 8.8.8.5, local AS number 65001

BGP table version is 13, main routing table version 13

12 network entries using 1776 bytes of memory

12 path entries using 768 bytes of memory

3/3 BGP path/bestpath attribute entries using 408 bytes of memory

3 BGP rrinfo entries using 72 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 3048 total bytes of memory

BGP activity 12/0 prefixes, 12/0 paths, scan interval 60 secs

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

8.8.8.3 4 65001 11 5 13 0 0 00:01:14 12

ISP5#sh run | sec bgp

router bgp 65001

bgp log-neighbor-changes

neighbor 8.8.8.3 remote-as 65001

neighbor 8.8.8.3 update-source Loopback0

ISP5#conf t

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

ISP5(config)#nei

ISP5(config)#rout

ISP5(config)#router bgp 65001

ISP5(config-router)#nei

ISP5(config-router)#neighbor 8.1.8.2 rem

ISP5(config-router)#neighbor 8.1.8.2 remot

ISP5(config-router)#neighbor 8.1.8.2 remote-as 65002

ISP5(config-router)#network

ISP5(config-router)#network 8.8.8.5 mask 255.255.255.255

ISP5(config-router)#net

ISP5(config-router)#network 8.1.6.0 mask 255.255.255.255

ISP5(config-router)#no network 8.1.6.0 mask 255.255.255.255

ISP5(config-router)#network 8.1.6.0 mask 255.255.255.252

ISP5(config-router)#network 8.1.8.0 mask 255.255.255.252

ISP5(config-router)#^Z

ISP5#

\*Sep 28 00:07:04.195: %SYS-5-CONFIG\_I: Configured from console by console

ISP5#sh ip bgp

BGP table version is 16, local router ID is 8.8.8.5

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

\*>i 8.1.1.0/30 8.8.8.1 0 100 0 i

\*>i 8.1.2.0/30 8.8.8.4 0 100 0 i

r>i 8.1.3.0/30 8.8.8.3 0 100 0 ?

r>i 8.1.4.0/30 8.8.8.3 0 100 0 ?

r>i 8.1.5.0/30 8.8.8.3 0 100 0 ?

\*> 8.1.6.0/30 0.0.0.0 0 32768 i

\* i 8.8.8.3 0 100 0 ?

\*>i 8.1.7.0/30 8.8.8.2 0 100 0 i

\*> 8.1.8.0/30 0.0.0.0 0 32768 i

r>i 8.8.8.1/32 8.8.8.1 0 100 0 i

r>i 8.8.8.2/32 8.8.8.2 0 100 0 i

r>i 8.8.8.3/32 8.8.8.3 0 100 0 ?

r>i 8.8.8.4/32 8.8.8.4 0 100 0 i

\*> 8.8.8.5/32 0.0.0.0 0 32768 i

\*>i 17.1.1.0/30 8.1.1.1 0 100 0 65000 i

ISP5#

ISP5#trac

ISP5#traceroute 17.1.1.1

Type escape sequence to abort.

Tracing the route to 17.1.1.1

VRF info: (vrf in name/id, vrf out name/id)

1 8.1.6.1 20 msec 16 msec 20 msec

2 8.1.3.1 40 msec 40 msec 44 msec

3 8.1.1.1 60 msec 52 msec 64 msec

4 17.1.1.1 [AS 65000] 84 msec 76 msec 84 msec

ISP5#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 28 00:19:28.743: %BGP-5-ADJCHANGE: neighbor 8.1.8.2 Up

[confirm]