**R1:**

System Bootstrap, Version 15.1(4)M4, RELEASE SOFTWARE (fc1)

Technical Support: http://www.cisco.com/techsupport

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Total memory size = 512 MB - On-board = 512 MB, DIMM0 = 0 MB

CISCO2901/K9 platform with 524288 Kbytes of main memory

Main memory is configured to 72/-1(On-board/DIMM0) bit mode with ECC disabled

Readonly ROMMON initialized

program load complete, entry point: 0x80803000, size: 0x1b340

program load complete, entry point: 0x80803000, size: 0x1b340

IOS Image Load Test

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Digitally Signed Release Software

program load complete, entry point: 0x81000000, size: 0x3bcd3d8

Self decompressing the image :

######################### [OK]

Smart Init is enabled

smart init is sizing iomem

TYPE MEMORY\_REQ

HWIC Slot 0 0x00200000

HWIC Slot 1 0x00200000

HWIC Slot 2 0x00200000

HWIC Slot 3 0x00200000 Onboard devices &

buffer pools 0x0228F000

-----------------------------------------------

TOTAL: 0x0428F000

Rounded IOMEM up to: 69Mb.

Using 6 percent iomem. [69Mb/512Mb]

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San Jose, California 95134-1706

Cisco IOS Software, C2900 Software (C2900-UNIVERSALK9-M), Version 15.1(4)M5, RELEASE SOFTWARE (fc2)Technical Support: http://www.cisco.com/techsupport

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Compiled Wed 18-Jul-07 04:52 by pt\_team

Image text-base: 0x2100F918, data-base: 0x24729040

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export@cisco.com.

Cisco CISCO2901/K9 (revision 1.0) with 491520K/32768K bytes of memory.

Processor board ID FTX152400KS

2 Gigabit Ethernet interfaces

2 Low-speed serial(sync/async) network interface(s)

DRAM configuration is 64 bits wide with parity disabled.

255K bytes of non-volatile configuration memory.

249856K bytes of ATA System CompactFlash 0 (Read/Write)

Press RETURN to get started!

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

R1>en

R1#conf t

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

R1(config)#ip route 172.31.0.0 255.255.255.0 172.31.1.193

R1(config)#ip route 172.31.1.196 255.255.255.252 172.31.1.193

R1(config)#ip route 172.31.1.128 255.255.255.192 172.31.1.193

R1(config)#exit

R1#

%SYS-5-CONFIG\_I: Configured from console by console

R1#show ip route

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

\* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

172.31.0.0/16 is variably subnetted, 7 subnets, 5 masks

S 172.31.0.0/24 [1/0] via 172.31.1.193

C 172.31.1.0/25 is directly connected, GigabitEthernet0/0

L 172.31.1.1/32 is directly connected, GigabitEthernet0/0

S 172.31.1.128/26 [1/0] via 172.31.1.193

C 172.31.1.192/30 is directly connected, Serial0/0/0

L 172.31.1.194/32 is directly connected, Serial0/0/0

S 172.31.1.196/30 [1/0] via 172.31.1.193

R1#

R1#

**R2:**

**System Bootstrap, Version 15.1(4)M4, RELEASE SOFTWARE (fc1)**

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**Total memory size = 512 MB - On-board = 512 MB, DIMM0 = 0 MB**

**CISCO2901/K9 platform with 524288 Kbytes of main memory**

**Main memory is configured to 72/-1(On-board/DIMM0) bit mode with ECC disabled**

**Readonly ROMMON initialized**

**program load complete, entry point: 0x80803000, size: 0x1b340**

**program load complete, entry point: 0x80803000, size: 0x1b340**

**IOS Image Load Test**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Digitally Signed Release Software**

**program load complete, entry point: 0x81000000, size: 0x3bcd3d8**

**Self decompressing the image :**

**######################### [OK]**

**Smart Init is enabled**

**smart init is sizing iomem**

**TYPE MEMORY\_REQ**

**HWIC Slot 0 0x00200000**

**HWIC Slot 1 0x00200000**

**HWIC Slot 2 0x00200000**

**HWIC Slot 3 0x00200000 Onboard devices &**

**buffer pools 0x0228F000**

**-----------------------------------------------**

**TOTAL: 0x0428F000**

**Rounded IOMEM up to: 69Mb.**

**Using 6 percent iomem. [69Mb/512Mb]**

**Restricted Rights Legend**

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**Software clause at DFARS sec. 252.227-7013.**

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**Cisco CISCO2901/K9 (revision 1.0) with 491520K/32768K bytes of memory.**

**Processor board ID FTX152400KS**

**2 Gigabit Ethernet interfaces**

**2 Low-speed serial(sync/async) network interface(s)**

**DRAM configuration is 64 bits wide with parity disabled.**

**255K bytes of non-volatile configuration memory.**

**249856K bytes of ATA System CompactFlash 0 (Read/Write)**

**Press RETURN to get started!**

**%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up**

**%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up**

**%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up**

**%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up**

**%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up**

**R2>en**

**R2#show ip route**

**Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP**

**D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area**

**N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2**

**E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP**

**i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area**

**\* - candidate default, U - per-user static route, o - ODR**

**P - periodic downloaded static route**

**Gateway of last resort is not set**

**172.31.0.0/16 is variably subnetted, 6 subnets, 3 masks**

**C 172.31.0.0/24 is directly connected, GigabitEthernet0/0**

**L 172.31.0.1/32 is directly connected, GigabitEthernet0/0**

**C 172.31.1.192/30 is directly connected, Serial0/0/0**

**L 172.31.1.193/32 is directly connected, Serial0/0/0**

**C 172.31.1.196/30 is directly connected, Serial0/0/1**

**L 172.31.1.197/32 is directly connected, Serial0/0/1**

**R2#conf t**

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

**R2(config)#ip route 172.31.1.0 255.255.255.128 se0/0/0**

**%Default route without gateway, if not a point-to-point interface, may impact performance**

**R2(config)#ip route 172.31.1.128 255.255.255.192 se0/0/1**

**%Default route without gateway, if not a point-to-point interface, may impact performance**

**R2(config)#exit**

**R2#**

**%SYS-5-CONFIG\_I: Configured from console by console**

**R3:**

**System Bootstrap, Version 15.1(4)M4, RELEASE SOFTWARE (fc1)**

**Technical Support: http://www.cisco.com/techsupport**

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**Total memory size = 512 MB - On-board = 512 MB, DIMM0 = 0 MB**

**CISCO2901/K9 platform with 524288 Kbytes of main memory**

**Main memory is configured to 72/-1(On-board/DIMM0) bit mode with ECC disabled**

**Readonly ROMMON initialized**

**program load complete, entry point: 0x80803000, size: 0x1b340**

**program load complete, entry point: 0x80803000, size: 0x1b340**

**IOS Image Load Test**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Digitally Signed Release Software**

**program load complete, entry point: 0x81000000, size: 0x3bcd3d8**

**Self decompressing the image :**

**######################### [OK]**

**Smart Init is enabled**

**smart init is sizing iomem**

**TYPE MEMORY\_REQ**

**HWIC Slot 0 0x00200000**

**HWIC Slot 1 0x00200000**

**HWIC Slot 2 0x00200000**

**HWIC Slot 3 0x00200000 Onboard devices &**

**buffer pools 0x0228F000**

**-----------------------------------------------**

**TOTAL: 0x0428F000**

**Rounded IOMEM up to: 69Mb.**

**Using 6 percent iomem. [69Mb/512Mb]**

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**Processor board ID FTX152400KS**

**2 Gigabit Ethernet interfaces**

**2 Low-speed serial(sync/async) network interface(s)**

**DRAM configuration is 64 bits wide with parity disabled.**

**255K bytes of non-volatile configuration memory.**

**249856K bytes of ATA System CompactFlash 0 (Read/Write)**

**Press RETURN to get started!**

**%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up**

**%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up**

**%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up**

**R3>en**

**R3#conf t**

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

**R3(config)#ip route 0.0.0.0 0.0.0.0 se0/0/1**

**%Default route without gateway, if not a point-to-point interface, may impact performance**

**R3(config)#exit**

**R3#**

**%SYS-5-CONFIG\_I: Configured from console by console**

**show ip route**

**Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP**

**D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area**

**N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2**

**E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP**

**i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area**

**\* - candidate default, U - per-user static route, o - ODR**

**P - periodic downloaded static route**

**Gateway of last resort is 0.0.0.0 to network 0.0.0.0**

**172.31.0.0/16 is variably subnetted, 4 subnets, 3 masks**

**C 172.31.1.128/26 is directly connected, GigabitEthernet0/0**

**L 172.31.1.129/32 is directly connected, GigabitEthernet0/0**

**C 172.31.1.196/30 is directly connected, Serial0/0/1**

**L 172.31.1.198/32 is directly connected, Serial0/0/1**

**S\* 0.0.0.0/0 is directly connected, Serial0/0/1**

**R3#**