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

CISCO1941/K9 platform with 524288 Kbytes of main memory

Main memory is configured to 64/-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

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Digitally Signed Release Software

program load complete, entry point: 0x81000000, size: 0x2bb1c58

Self decompressing the image :

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

Smart Init is enabled

smart init is sizing iomem

TYPE MEMORY\_REQ

HWIC Slot 0 0x00200000 Onboard devices &

buffer pools 0x01E8F000

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

TOTAL: 0x0268F000

Rounded IOMEM up to: 40Mb.

Using 6 percent iomem. [40Mb/512Mb]

Restricted Rights Legend

Use, duplication, or disclosure by the Government is

subject to restrictions as set forth in subparagraph

(c) of the Commercial Computer Software - Restricted

Rights clause at FAR sec. 52.227-19 and subparagraph

(c) (1) (ii) of the Rights in Technical Data and Computer

Software clause at DFARS sec. 252.227-7013.

cisco Systems, Inc.

170 West Tasman Drive

San Jose, California 95134-1706

Cisco IOS Software, C1900 Software (C1900-UNIVERSALK9-M), Version 15.1(4)M4, RELEASE SOFTWARE (fc2)

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

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Compiled Thurs 5-Jan-12 15:41 by pt\_team

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

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use. Delivery of Cisco cryptographic products does not imply

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http://www.cisco.com/wwl/export/crypto/tool/stqrg.html

If you require further assistance please contact us by sending email to

export@cisco.com.

Cisco CISCO1941/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

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 10.1.1.2 (Serial0/0/0) is up: new adjacency

R1>en

R1#conf t

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

R1(config)#interface gig

% Incomplete command.

R1(config)#interfac

R1(config)#interface gig

R1(config)#interface gigabitEthernet 0/0

R1(config-if)#ip help

R1(config-if)#ip helper-address 10.1.1.2

R1(config-if)#

R1 con0 is now available

Press RETURN to get started.

R2  
%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 10.1.1.1 (Serial0/0/0) is up: new adjacency

R2>en

R2#conf t

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

R2(config)#ip dhcp ex

R2(config)#ip dhcp excluded-address

% Incomplete command.

R2(config)#ip dhcp excluded-address ?

A.B.C.D Low IP address

R2(config)#ip dhcp excluded-address 192.168.10.1?

A.B.C.D

R2(config)#ip dhcp excluded-address 192.168.10.1?

A.B.C.D

R2(config)#ip dhcp excluded-address 192.168.10.1 192.168.10.10

R2(config)#ip dhcp excluded-address 192.168.30.1 192.168.30.10

R2(config)#ip dhcp R1-LAN

^

% Invalid input detected at '^' marker.

R2(config)#ip dhcp R1-LAN

^

% Invalid input detected at '^' marker.

R2(config)#ip dhcp pool R1-LAN

R2(dhcp-config)#network ?

A.B.C.D Network number in dotted-decimal notation

R2(dhcp-config)#network 192.168.10.0 255.255.255.0

R2(dhcp-config)#def

R2(dhcp-config)#default-router 192.168.10.1

R2(dhcp-config)#dns

R2(dhcp-config)#dns-server 192.168.20.254

R2(dhcp-config)#exit

R2(config)#ip dhcp pool R3-LAN

R2(dhcp-config)#network 192.168.30.0 255.255.255.0

R2(dhcp-config)#def

R2(dhcp-config)#default-router 192.168.30.1

R2(dhcp-config)#dns

R2(dhcp-config)#dns-server 192.168.20.254

R2(dhcp-config)#exit

R2(config)#int

R2(config)#interface gig

R2(config)#interface gigabitEthernet 0/1

R2(config-if)#ip add

R2(config-if)#ip address dhcp

R2(config-if)#no shut

R2(config-if)#no shutdown

R2(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

%DHCP-6-ADDRESS\_ASSIGN: Interface GigabitEthernet0/1 assigned DHCP address 209.165.200.231, mask 255.255.255.224, hostname R2

%DUAL-5-NBRCHANGE: IP-EIGRP 1: Neighbor 209.165.200.225 (GigabitEthernet0/1) is up: new adjacency

R2(config-if)#exit

R2(config)#exit

R2#

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

R2#show ip interface

GigabitEthernet0/0 is up, line protocol is up (connected)

Internet address is 192.168.20.1/24

Broadcast address is 255.255.255.255

Address determined by setup command

MTU is 1500 bytes

Helper address is not set

Directed broadcast forwarding is disabled

Outgoing access list is not set

Inbound access list is not set

Proxy ARP is enabled

Security level is default

Split horizon is enabled

ICMP redirects are always sent

ICMP unreachables are always sent

ICMP mask replies are never sent

IP fast switching is disabled

IP fast switching on the same interface is disabled

IP Flow switching is disabled

IP Fast switching turbo vector

IP multicast fast switching is disabled

IP multicast distributed fast switching is disabled

Router Discovery is disabled

IP output packet accounting is disabled

IP access violation accounting is disabled

TCP/IP header compression is disabled

RTP/IP header compression is disabled

Probe proxy name replies are disabled

Policy routing is disabled

Network address translation is disabled

BGP Policy Mapping is disabled

Input features: MCI Check

WCCP Redirect outbound is disabled

WCCP Redirect inbound is disabled

WCCP Redirect exclude is disabled

GigabitEthernet0/1 is up, line protocol is up (connected)

Internet address is 209.165.200.231/27

Broadcast address is 255.255.255.255

Address determined by DHCP

MTU is 1500 bytes

Helper address is not set

Directed broadcast forwarding is disabled

Outgoing access list is not set

Inbound access list is not set

Proxy ARP is enabled

Security level is default

Split horizon is enabled

ICMP redirects are always sent

ICMP unreachables are always sent

ICMP mask replies are never sent

IP fast switching is disabled

IP fast switching on the same interface is disabled

IP Flow switching is disabled

IP Fast switching turbo vector

IP multicast fast switching is disabled

IP multicast distributed fast switching is disabled

Router Discovery is disabled

IP output packet accounting is disabled

IP access violation accounting is disabled

TCP/IP header compression is disabled

RTP/IP header compression is disabled

Probe proxy name replies are disabled

Policy routing is disabled

Network address translation is disabled

BGP Policy Mapping is disabled

Input features: MCI Check

WCCP Redirect outbound is disabled

WCCP Redirect inbound is disabled

WCCP Redirect exclude is disabled

Serial0/0/0 is up, line protocol is up (connected)

Internet address is 10.1.1.2/30

Broadcast address is 255.255.255.255

Address determined by setup command

MTU is 1500

Helper address is not set

Directed broadcast forwarding is disabled

Outgoing access list is not set

Inbound access list is not set

Proxy ARP is enabled

Security level is default

Split horizon is enabled

ICMP redirects are always sent

ICMP unreachables are always sent

ICMP mask replies are never sent

IP fast switching is disabled

IP fast switching on the same interface is disabled

IP Flow switching is disabled

IP Fast switching turbo vector

IP multicast fast switching is disabled

IP multicast distributed fast switching is disabled

Router Discovery is disabled

IP output packet accounting is disabled

IP access violation accounting is disabled

TCP/IP header compression is disabled

RTP/IP header compression is disabled

Probe proxy name replies are disabled

Policy routing is disabled

Network address translation is disabled

WCCP Redirect outbound is disabled

WCCP Redirect exclude is disabled

BGP Policy Mapping is disabled

Serial0/0/1 is up, line protocol is up (connected)

Internet address is 10.2.2.2/30

Broadcast address is 255.255.255.255

Address determined by setup command

MTU is 1500

Helper address is not set

Directed broadcast forwarding is disabled

Outgoing access list is not set

Inbound access list is not set

Proxy ARP is enabled

Security level is default

Split horizon is enabled

ICMP redirects are always sent

ICMP unreachables are always sent

ICMP mask replies are never sent

R2#show ip interface brief

Interface IP-Address OK? Method Status Protocol

GigabitEthernet0/0 192.168.20.1 YES manual up up

GigabitEthernet0/1 209.165.200.231 YES DHCP up up

Serial0/0/0 10.1.1.2 YES manual up up

Serial0/0/1 10.2.2.2 YES manual up up

Serial0/1/0 unassigned YES unset down down

Serial0/1/1 unassigned YES unset down down

Vlan1 unassigned YES unset administratively down down

R2#show running-config interface

^

% Invalid input detected at '^' marker.

R2#copy running-config startup-config

Destination filename [startup-config]?

Building configuration...

[OK]

R2#

R2#

R3  
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smart init is sizing iomem

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R3>en

R3#conf t

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

R3(config)#int

R3(config)#interface gig

R3(config)#interface gigabitEthernet 0/0

R3(config-if)#ip help

R3(config-if)#ip helper-address 10.2.2.2

R3(config-if)#

R3 con0 is now available

Press RETURN to get started.