

## show running-config

Current configuration : 1848 bytes

```
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption

hostname R3_5

boot-start-marker
boot-end-marker

no logging buffered
no logging console
no logging monitor
enable secret 5 $1$2e6H$59yzbClWmq7QQGPyb4eWt/

no aaa new-model

ip cef

no ip domain lookup
no ipv6 cef

multilink bundle-name authenticated

license udi pid CISCO2901/K9 sn FCZ184492UH

username cisco privilege 15 secret 5 $1$rtst$K/JvhMfNueqPTIw6dbPlB/

redundancy

interface Loopback1
ip address 4.4.4.4 255.255.255.255

interface Embedded-Service-Engine0/0
no ip address
shutdown

interface GigabitEthernet0/0
ip address 202.0.0.254 255.255.255.0
duplex auto
speed auto

interface GigabitEthernet0/1
ip address 10.20.0.1 255.255.255.0
duplex auto
speed auto

router bgp 20
bgp log-neighbor-changes
neighbor 3.3.3.3 remote-as 30
neighbor 3.3.3.3 ebgp-multihop 255
neighbor 3.3.3.3 update-source Loopback1
neighbor 3.3.3.3 next-hop-self
neighbor 5.5.5.5 remote-as 20
neighbor 5.5.5.5 update-source Loopback1
neighbor 5.5.5.5 next-hop-self

ip forward-protocol nd

no ip http server
no ip http secure-server

ip route 3.3.3.3 255.255.255.255 202.0.0.1
ip route 5.5.5.5 255.255.255.255 10.20.0.254

control-plane

banner motd ^Codt "Du ko^C

line con 0
logging synchronous
login local
```

```
line aux 0
line 2
no activation-character
no exec
transport preferred none
transport output pad telnet rlogin lapb-ta mop udptn v120 ssh
stopbits 1
line vty 0 4
exec-timeout 0 0
logging synchronous
login local
transport input telnet
line vty 5 15
exec-timeout 0 0
logging synchronous
login local
transport input telnet

scheduler allocate 20000 1000

end
```

## 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  
i - IS-IS, su - IS-IS summary, 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, H - NHRP, l - LISP  
+ - replicated route, % - next hop override

Gateway of last resort is not set

3.0.0.0/32 is subnetted, 1 subnets  
S 3.3.3.3 [1/0] via 202.0.0.1  
4.0.0.0/32 is subnetted, 1 subnets  
C 4.4.4.4 is directly connected, Loopback1  
5.0.0.0/32 is subnetted, 1 subnets  
S 5.5.5.5 [1/0] via 10.20.0.254  
10.0.0.0/8 is variably subnetted, 2 subnets, 2 masks  
C 10.20.0.0/24 is directly connected, GigabitEthernet0/1  
L 10.20.0.1/32 is directly connected, GigabitEthernet0/1  
B 201.0.0.0/24 [20/0] via 3.3.3.3, 02:05:05  
202.0.0.0/24 is variably subnetted, 2 subnets, 2 masks  
C 202.0.0.0/24 is directly connected, GigabitEthernet0/0  
L 202.0.0.254/32 is directly connected, GigabitEthernet0/0  
B 203.0.0.0/24 [20/0] via 3.3.3.3, 00:38:52  
B 204.0.0.0/24 [200/0] via 5.5.5.5, 00:53:36

## show ip bgp summary

```
BGP router identifier 4.4.4.4, local AS number 20
BGP table version is 34, main routing table version 34
5 network entries using 740 bytes of memory
5 path entries using 320 bytes of memory
3/3 BGP path/bestpath attribute entries using 408 bytes of memory
2 BGP AS-PATH entries using 48 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 1516 total bytes of memory
BGP activity 15/10 prefixes, 19/14 paths, scan interval 60 secs

Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd
3.3.3.3 4 30 154 145 34 0 0 02:06:17 4
5.5.5.5 4 20 148 149 34 0 0 02:03:50 1
```

## show cdp neighb

Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge  
S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone,  
D - Remote, C - CVTA, M - Two-port Mac Relay

Device	ID	Local	Intrfce	Holdtme	Capability	Platform	Port	ID
R3_6	Gig 0/1	159	R S I	CISCO2901	Gig 0/1			
R3_4	Gig 0/0	145	R S I	CISCO2901	Gig 0/0			

## show ip int brief

```
Interface IP-Address OK? Method Status Protocol
Embedded-Service-Engine0/0 unassigned YES unset administratively down down
GigabitEthernet0/0 202.0.0.254 YES manual up up
GigabitEthernet0/1 10.20.0.1 YES manual up up
Loopback1 4.4.4.4 YES manual up up
```

## **show track**

**show ip nat translations**



## **show access-lists**

**show route-map**

## show version

Cisco IOS Software, C2900 Software (C2900-UNIVERSALK9-M), Version 15.2(4)M6a, RELEASE SOFTWARE (fc1)  
 Technical Support: <http://www.cisco.com/techsupport>  
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 Compiled Tue 15-Apr-14 09:45 by prod\_rel\_team

ROM: System Bootstrap, Version 15.0(1r)M16, RELEASE SOFTWARE (fc1)

R3\_5 uptime is 2 hours, 13 minutes  
 System returned to ROM by reload at 12:47:15 UTC Fri Mar 24 2017  
 System image file is "flash0:c2900-universalk9-mz.SPA.152-4.M6a.bin"  
 Last reload type: Normal Reload  
 Last reload reason: Reload Command

This product contains cryptographic features and is subject to United States and local country laws governing import, export, transfer and use. Delivery of Cisco cryptographic products does not imply third-party authority to import, export, distribute or use encryption. Importers, exporters, distributors and users are responsible for compliance with U.S. and local country laws. By using this product you agree to comply with applicable laws and regulations. If you are unable to comply with U.S. and local laws, return this product immediately.

A summary of U.S. laws governing Cisco cryptographic products may be found at:  
<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](mailto:export@cisco.com).

Cisco CISCO2901/K9 (revision 1.0) with 487424K/36864K bytes of memory.  
 Processor board ID FCZ184492UH  
 2 Gigabit Ethernet interfaces  
 1 terminal line  
 1 Virtual Private Network (VPN) Module  
 DRAM configuration is 64 bits wide with parity enabled.  
 255K bytes of non-volatile configuration memory.  
 255488K bytes of ATA System CompactFlash 0 (Read/Write)

License Info:

License UDI:

-----  
 Device# PID SN  
 -----

\*0 CISCO2901/K9 FCZ184492UH

Technology Package License Information for Module:'c2900'

-----  
 Technology Technology-package Technology-package  
 Current Type Next reboot  
 -----

ipbase ipbasek9 Permanent ipbasek9  
 security securityk9 Permanent securityk9  
 uc None None None  
 data None None None

Configuration register is 0x2102