# show running-config

```
Current configuration : 3805 bytes

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

hostname R3_3

boot-start-marker
boot-end-marker

no logging buffered
no logging console
no logging monitor
enable secret 4 tnhtc92DXBhelxjYk8LWJrPV36S2i4ntXrpb4RFmfqY

no aaa new-model

ip cef

no ip domain lookup
no ipv6 cef
multilink bundle-name authenticated

voice-card 0

license udi pid CISCO2901/K9 sn FCZ1747C29D

username cisco privilege 15 password 7 00071A150754

redundancy

track 10 ip sla 1 reachability

track 20 ip sla 2 reachability

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

interface GigabitEthernet0/0
description Connection to ISP-2 router
ip address 204.0.0.1 255.255.255.0
ip nat outside
ip virtual-reassembly in
duplex auto
speed auto

interface GigabitEthernet0/1
no ip address
duplex auto
speed auto

interface GigabitEthernet0/1.10
encapsulation dot1Q 10
ip address 192.168.10.254 255.255.255.0
ip nat inside
ip virtual-reassembly in
ip policy route-map Divide_Traffic

interface GigabitEthernet0/1.20
encapsulation dot1Q 20
ip address 192.168.20.254 255.255.255.0
ip nat inside
ip virtual-reassembly in
ip policy route-map Divide_Traffic

interface FastEthernet0/0/0
switchport access vlan 99
no ip address

interface FastEthernet0/0/1
```

```
no ip address

interface FastEthernet0/0/2
no ip address

interface FastEthernet0/0/3
no ip address

interface Vlan1
no ip address

interface Vlan99
ip address 203.0.0.1 255.255.255.0
ip nat outside
ip virtual-reassembly in

ip forward-protocol nd

no ip http server
no ip http secure-server

ip nat inside source route-map ISP1 interface Vlan99 overload
ip nat inside source route-map ISP2 interface GigabitEthernet0/0 overload
ip route 201.0.0.0 255.255.255.0 203.0.0.254 track 10
ip route 202.0.0.0 255.255.255.0 204.0.0.254 track 20
ip route 0.0.0.0 0.0.0.0 204.0.0.254
ip route 0.0.0.0 0.0.0.0 203.0.0.254

ip sla auto discovery
ip sla 1
icmp-echo 201.0.0.1 source-interface Vlan99
threshold 1000
timeout 1000
frequency 5
ip sla schedule 1 life forever start-time now
ip sla 2
icmp-echo 202.0.0.1 source-interface GigabitEthernet0/0
threshold 1000
timeout 1000
frequency 5
ip sla schedule 2 life forever start-time now
access-list 101 permit ip 192.168.10.0 0.0.0.255 any
access-list 102 permit ip 192.168.20.0 0.0.0.255 any
access-list 110 permit ip 192.168.10.0 0.0.0.255 any
access-list 110 permit ip 192.168.20.0 0.0.0.255 any
access-list 120 permit ip 192.168.20.0 0.0.0.255 any
access-list 120 permit ip 192.168.10.0 0.0.0.255 any

route-map Divide_Traffic permit 10
match ip address 110
set ip next-hop verify-availability 203.0.0.254 10 track 10

route-map Divide_Traffic permit 20
match ip address 120
set ip next-hop verify-availability 204.0.0.254 10 track 20

route-map ISP2 permit 10
match ip address 120
match interface GigabitEthernet0/0
set ip next-hop verify-availability 204.0.0.254 10 track 20

route-map ISP1 permit 10
match ip address 110
match interface Vlan99
set ip next-hop verify-availability 203.0.0.254 10 track 10

control-plane

!
!
!

mgcp profile default

gatekeeper
shutdown
```

```
banner motd ^CWarning! This is a private system!!^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 all
line vty 5 15
exec-timeout 0 0
logging synchronous
login local
transport input all

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

192.168.10.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.168.10.0/24 is directly connected, GigabitEthernet0/1.10
L 192.168.10.254/32 is directly connected, GigabitEthernet0/1.10
192.168.20.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.168.20.0/24 is directly connected, GigabitEthernet0/1.20
L 192.168.20.254/32 is directly connected, GigabitEthernet0/1.20
```

# show ip bgp summary

```
% BGP not active
```

# 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
S1_10 Gig 0/1 158 S I WS-C2960- Fas 0/1
```

# show ip int brief

```
Interface IP-Address OK? Method Status Protocol
Embedded-Service-Engine0/0 unassigned YES NVRAM administratively down down
GigabitEthernet0/0 204.0.0.1 YES NVRAM down down
GigabitEthernet0/1 unassigned YES NVRAM up up
GigabitEthernet0/1.10 192.168.10.254 YES NVRAM up up
GigabitEthernet0/1.20 192.168.20.254 YES NVRAM up up
FastEthernet0/0/0 unassigned YES unset down down
FastEthernet0/0/1 unassigned YES unset down down
FastEthernet0/0/2 unassigned YES unset down down
FastEthernet0/0/3 unassigned YES unset down down
NVI0 204.0.0.1 YES unset up up
Vlan1 unassigned YES unset down down
Vlan99 203.0.0.1 YES NVRAM down down
```

# show track

```
Track 10
IP SLA 1 reachability
Reachability is Down
7 changes, last change 00:00:45
Latest operation return code: Timeout
Tracked by:
ROUTE-MAP 0
STATIC-IP-ROUTING 0
Track 20
IP SLA 2 reachability
Reachability is Down
3 changes, last change 00:00:40
Latest operation return code: Timeout
Tracked by:
ROUTE-MAP 0
STATIC-IP-ROUTING 0
```

# show ip nat translations

```
Pro Inside global Inside local Outside local Outside global
udp 203.0.0.1:138 192.168.10.2:138 192.168.10.255:138 192.168.10.255:138
tcp 204.0.0.1:7796 192.168.20.130:7796 192.168.2.1:8013 192.168.2.1:8013
tcp 203.0.0.1:7799 192.168.20.130:7799 192.168.2.1:8013 192.168.2.1:8013
tcp 203.0.0.1:7800 192.168.20.130:7800 192.168.2.1:8013 192.168.2.1:8013
tcp 203.0.0.1:7801 192.168.20.130:7801 192.168.2.1:8013 192.168.2.1:8013
tcp 203.0.0.1:7802 192.168.20.130:7802 192.168.2.1:8013 192.168.2.1:8013
tcp 203.0.0.1:7806 192.168.20.130:7806 192.168.2.1:8013 192.168.2.1:8013
tcp 203.0.0.1:7808 192.168.20.130:7808 192.168.2.1:8013 192.168.2.1:8013
tcp 204.0.0.1:7819 192.168.20.130:7819 192.168.2.1:8013 192.168.2.1:8013
tcp 204.0.0.1:7834 192.168.20.130:7834 192.168.2.1:8013 192.168.2.1:8013
tcp 203.0.0.1:7839 192.168.20.130:7839 192.168.2.1:8013 192.168.2.1:8013
tcp 203.0.0.1:7843 192.168.20.130:7843 192.168.2.1:8013 192.168.2.1:8013
```

# show access-lists

```
Extended IP access list 101
10 permit ip 192.168.10.0 0.0.0.255 any (23 matches)
Extended IP access list 102
10 permit ip 192.168.20.0 0.0.0.255 any (38 matches)
Extended IP access list 110
10 permit ip 192.168.10.0 0.0.0.255 any (369 matches)
20 permit ip 192.168.20.0 0.0.0.255 any (561 matches)
Extended IP access list 120
10 permit ip 192.168.20.0 0.0.0.255 any (25 matches)
20 permit ip 192.168.10.0 0.0.0.255 any (1 match)
```

# show route-map

```
route-map Divide_Traffic, permit, sequence 10
Match clauses:
ip address (access-lists): 110
Set clauses:
ip next-hop verify-availability 203.0.0.254 10 track 10 [down]
Policy routing matches: 815 packets, 68415 bytes
route-map Divide_Traffic, permit, sequence 20
Match clauses:
ip address (access-lists): 120
Set clauses:
ip next-hop verify-availability 204.0.0.254 10 track 20 [down]
Policy routing matches: 38 packets, 3258 bytes
route-map ISP2, permit, sequence 10
Match clauses:
ip address (access-lists): 120
interface GigabitEthernet0/0
Set clauses:
ip next-hop verify-availability 204.0.0.254 10 track 20 [down]
Policy routing matches: 0 packets, 0 bytes
route-map ISP1, permit, sequence 10
Match clauses:
ip address (access-lists): 110
interface Vlan99
Set clauses:
ip next-hop verify-availability 203.0.0.254 10 track 10 [down]
Policy routing matches: 0 packets, 0 bytes
```

# show version

```
Cisco IOS Software, C2900 Software (C2900-UNIVERSALK9-M), Version 15.2(4)M4, RELEASE
SOFTWARE (fc2)
Technical Support: http://www.cisco.com/techsupport
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Compiled Thu 20-Jun-13 13:06 by prod_rel_team

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

R3_3 uptime is 54 minutes
System returned to ROM by reload at 14:06:07 UTC Fri Mar 24 2017
System image file is "flash0:c2900-universalk9-mz.SPA.152-4.M4.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.

Cisco CISCO2901/K9 (revision 1.0) with 483328K/40960K bytes of memory.
Processor board ID FCZ1747C29D
4 FastEthernet interfaces
2 Gigabit Ethernet interfaces
1 terminal line
DRAM configuration is 64 bits wide with parity enabled.
255K bytes of non-volatile configuration memory.
250880K bytes of ATA System CompactFlash 0 (Read/Write)


License Info:

License UDI:

-------------------------------------------------
Device# PID SN
-------------------------------------------------
*0 CISCO2901/K9 FCZ1747C29D



Technology Package License Information for Module:'c2900'

-----------------------------------------------------------------
Technology Technology-package Technology-package
Current Type Next reboot
------------------------------------------------------------------
ipbase ipbasek9 Permanent ipbasek9
security None None None
uc uck9 Permanent uck9
data None None None

Configuration register is 0x2102
```