

show running-config

Current configuration : 1454 bytes

```
! Last configuration change at 15:21:29 UTC Thu Mar 2 2017
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
```

hostname R1

```
boot-start-marker
boot-end-marker
```

```
no logging buffered
no logging console
no logging monitor
```

no aaa new-model

ip cef

```
ipv6 unicast-routing
ipv6 cef
multilink bundle-name authenticated
```

license udi pid CISCO2901/K9 sn FCZ184492U0

redundancy

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

```
interface GigabitEthernet0/0
no ip address
ip access-group TEST out
duplex auto
speed auto
ipv6 address FE80:1::1 link-local
ipv6 address 2001::2/64
ipv6 enable
ipv6 traffic-filter OSPF_IN in
ipv6 ospf 1 area 1
```

```
interface GigabitEthernet0/1
no ip address
shutdown
duplex auto
speed auto
```

```
router ospfv3 1
router-id 1.1.1.1
!
address-family ipv6 unicast
exit-address-family
```

ip forward-protocol nd

```
no ip http server
no ip http secure-server
```

```
ipv6 access-list OSPF_IN
sequence 40 permit 89 host FE80:1::2 host FF02::5
permit 89 host FE80:1::2 host FF02::6
```

```
ipv6 access-list OUT_g00
deny ipv6 any any
```

control-plane

line con 0

```
line aux 0
line 2
no activation-character
no exec
transport preferred none
transport output lat pad telnet rlogin lapb-ta mop udptn v120 ssh
stopbits 1
line vty 0 4
login
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

show ipv6 route

```
IPv6 Routing Table - default - 3 entries
Codes: C - Connected, L - Local, S - Static, U - Per-user Static route
B - BGP, HA - Home Agent, MR - Mobile Router, R - RIP
H - NHRP, I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea
IS - ISIS summary, D - EIGRP, EX - EIGRP external, NM - NEMO
ND - ND Default, NDp - ND Prefix, DCE - Destination, NDr - Redirect
O - OSPF Intra, OI - OSPF Inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2, I - LISP
C 2001::/64 [0/0]
via GigabitEthernet0/0, directly connected
L 2001::2/128 [0/0]
via GigabitEthernet0/0, receive
L FF00::/8 [0/0]
via Null0, receive
```

show ip int brief

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

show ipv6 int brief

```
Em0/0 [administratively down/down]
unassigned
GigabitEthernet0/0 [up/up]
FE80::1
2001::2
GigabitEthernet0/1 [administratively down/down]
unassigned
```

show cdp neighbors

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
Router	Gig 0/0	114	R S I	CISCO2901	Gig 0/0			
R2	Gig 0/0	172	R S I	CISCO2901	Gig 0/0			

show ipv6 ospf 10

show ipv6 ospf 10 neighbor

show ip bgp summary

% BGP not active

show access-lists

```
IPv6 access list OSPF_IN
permit 89 host FE80:1::2 host FF02::5 (33920 matches) sequence 40
permit 89 host FE80:1::2 host FF02::6 sequence 50
IPv6 access list OUT_g00
deny ipv6 any any sequence 10
```

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)

R1 uptime is 1 week, 39 minutes
 System returned to ROM by reload at 14:40:38 UTC Thu Feb 23 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.

Cisco CISCO2901/K9 (revision 1.0) with 2506752K/114688K bytes of memory.
 Processor board ID FCZ184492U0
 2 Gigabit Ethernet interfaces
 1 terminal line
 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 FCZ184492U0

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 None None None
 data datak9 Permanent datak9

Configuration register is 0x2102