

show running-config

```
Current configuration : 2434 bytes
version 12.4
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
hostname R2-23_ISPC-B6
boot-start-marker
boot-end-marker
logging message-counter syslog
no logging buffered
no logging console
no logging monitor
enable secret 5 $1$m9ot$d5CTZC9GwgJGFqD1F116B/
no aaa new-model
dot11 syslog
ip source-route
ip cef
no ip domain lookup
ipv6 unicast-routing
ipv6 cef
multilink bundle-name authenticated
username cisco privilege 15 secret 5 $1$9Nn9$aG36d3Fr/EXie1CdphZwO/
archive
log config
hidekeys
interface Loopback0
ip address 23.1.1.1 255.255.255.0
ipv6 address 2001:23::1/64
ipv6 enable
ipv6 ospf 10 area 1
interface FastEthernet0/0
ip address 200.6.0.1 255.255.255.0
duplex auto
speed auto
interface FastEthernet0/1
no ip address
shutdown
duplex auto
speed auto
interface Serial0/1/0
description ToR2-20_ISPC
no ip address
encapsulation frame-relay
no keepalive
no fair-queue
clock rate 2000000
interface Serial0/1/0.402 point-to-point
description ToR2-20_ISPC
ip address 10.30.0.14 255.255.255.252
ipv6 address 2001:4::2/64
ipv6 enable
ipv6 ospf 10 area 1
frame-relay interface-dlci 402
interface Serial0/1/1
```



no ip address shutdown clock rate 2000000 interface Serial0/2/0 ip address 200.4.30.1 255.255.255.0 interface Serial0/2/1 ip address 200.4.31.1 255.255.255.0 clock rate 2000000 router ospf 1 log-adjacency-changes network 10.30.0.12 0.0.0.3 area 1 network 23.1.1.0 0.0.0.255 area 1 router bgp 300 no synchronization bgp log-neighbor-changes network 200.6.0.0 neighbor 9.1.1.1 remote-as 300 neighbor 9.1.1.1 update-source Loopback0 neighbor 9.1.1.1 next-hop-self no auto-summary ip forward-protocol nd ip route 2.2.2.0 255.255.255.0 190.20.0.1 no ip http server no ip http secure-server ipv6 router ospf 10 router-id 23.1.1.1 log-adjacency-changes control-plane banner motd ^CNot Authorized!^C line con 0 exec-timeout 0 0 password 7 094F471A1A0A logging synchronous login local line aux 0 line vty 0 4 exec-timeout 0 0 password 7 045802150C2E logging synchronous login local transport input telnet line vty 5 15 exec-timeout 0 0 password 7 045802150C2E logging synchronous login local transport input telnet scheduler allocate 20000 1000 end



show ip route

```
Codes: 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

Gateway of last resort is not set

23.0.0.0/24 is subnetted, 1 subnets
C 23.1.1.0 is directly connected, Loopback0
```



show ipv6 route

IPv6 Routing Table - Default - 3 entries

Codes: C - Connected, L - Local, S - Static, U - Per-user Static route

B - BGP, M - MIPv6, R - RIP, II - ISIS L1

I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary, D - EIGRP

EX - EIGRP external

O - OSPF Intra, OI - OSPF Inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2

ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2

C 2001:23::/64 [0/0]

via Loopback0, directly connected

L 2001:23::1/128 [0/0]

via Loopback0, receive

L FF00::/8 [0/0]

via Null0, receive



show ip int brief

Interface IP-Address OK? Method Status Protocol FastEthernet0/0 200.6.0.1 YES manual up down FastEthernet0/1 unassigned YES unset administratively down down Serial0/1/0 unassigned YES unset down down Serial0/1/0.402 10.30.0.14 YES manual down down Serial0/1/1 unassigned YES unset administratively down down Serial0/2/0 200.4.30.1 YES manual down down Serial0/2/1 200.4.31.1 YES manual down down Loopback0 23.1.1.1 YES manual up up



show ipv6 int brief

FastEthernet0/0 [up/down] unassigned FastEthernet0/1 [administratively down/down] unassigned Serial0/1/0 [down/down] unassigned Serial0/1/0.402 [down/down] FE80::223:5EFF:FE06:63A0 2001:4::2 Serial0/1/1 [administratively down/down] unassigned Serial0/2/0 [down/down] unassigned Serial0/2/1 [down/down] ${\tt unassigned}$ Loopback0 [up/up] FE80::223:5EFF:FE06:63A0 2001:23::1



show cdp neighbors

Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge S - Switch, H - Host, I - IGMP, r - Repeater

Device ID Local Intrfce Holdtme Capability Platform Port ID



show ipv6 ospf 10

Routing Process "ospfv3 10" with ID 23.1.1.1

SPF schedule delay 5 secs, Hold time between two SPFs 10 secs
Minimum LSA interval 5 secs. Minimum LSA arrival 1 secs
LSA group pacing timer 240 secs
Interface flood pacing timer 33 msecs
Retransmission pacing timer 66 msecs
Number of external LSA 0. Checksum Sum 0x000000

Number of areas in this router is 1. 1 normal 0 stub 0 nssa
Reference bandwidth unit is 100 mbps
Area 1

Number of interfaces in this area is 2

SPF algorithm executed 8 times
Number of LSA 2. Checksum Sum 0x012888

Number of DCbitless LSA 0

Number of indication LSA 0

Number of DONotAge LSA 0

Flood list length 0



show ipv6 ospf 10 neighbor



show ip bgp summary

BGP router identifier 23.1.1.1, local AS number 300 BGP table version is 13, main routing table version 13

Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd 9.1.1.1 4 300 1339 1319 0 0 0 5d19h Active



show version

Cisco IOS Software, 2800 Software (C2800NM-ADVENTERPRISEK9-M), Version 12.4(24)T2, RELEASE SOFTWARE (fc2)

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ROM: System Bootstrap, Version 12.4(13r)T, RELEASE SOFTWARE (fc1)

R2-23_ISPC-B6 uptime is 6 days, 18 hours, 16 minutes System returned to ROM by reload at 23:03:02 UTC Fri Jun 6 2014 System image file is "flash:c2800nm-adventerprisek9-mz.124-24.T2.bin"

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If you require further assistance please contact us by sending email to export@cisco.com.

Cisco 2811 (revision 53.51) with 249856K/12288K bytes of memory. Processor board ID FCZ124671CY
2 FastEthernet interfaces
4 Serial(sync/async) interfaces
1 Virtual Private Network (VPN) Module

DRAM configuration is 64 bits wide with parity enabled. 239K bytes of non-volatile configuration memory. 62720K bytes of ATA CompactFlash (Read/Write)

Configuration register is 0x2102