```
Building configuration...

Current configuration : 6636 bytes
!
! Last configuration change at 12:13:15 UTC Mon Dec 21 2015
version 15.2
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R3
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
!
ip cef
!
!
!
!
!
!
no ip domain lookup
ipv6 unicast-routing
ipv6 cef
!
multilink bundle-name authenticated
!
!
!
!
license udi pid CISCO2901/K9 sn FCZ182591H2
!
!
!
redundancy
!
!
!
!
!
!
!
!
!
!
!
!
!
!
```

```
interface Embedded-Service-Engine0/0
 no ip address
 shutdown
!
interface GigabitEthernet0/0
 no ip address
 duplex auto
 speed auto
!
interface GigabitEthernet0/0.10
 encapsulation dot1Q 10
 ip address 10.3.10.1 255.255.255.0
 ip access-group 119 in
 ip helper-address 10.1.0.1
 ipv6 address FE80::3 link-local
 ipv6 address 2001:620:3101:3010::3/64
 ipv6 enable
 ipv6 nd other-config-flag
 ipv6 nd ra interval 10
 ipv6 dhcp relay destination 2001:620:3101:1001::1 Serial0/0/0
 ipv6 traffic-filter s10 in
 ipv6 ospf 1 area 0
!
interface GigabitEthernet0/0.20
 encapsulation dot1Q 20
 ip address 10.3.20.1 255.255.255.0
 ip access-group 120 in
 ip helper-address 10.1.0.1
 ipv6 address FE80::3 link-local
 ipv6 address 2001:620:3101:3020::3/64
 ipv6 enable
 ipv6 nd other-config-flag
 ipv6 nd ra interval 10
 ipv6 dhcp relay destination 2001:620:3101:1001::1 Serial0/0/0
 ipv6 traffic-filter s20 in
 ipv6 ospf 1 area 0
!
interface GigabitEthernet0/0.30
 encapsulation dot1Q 30
 ip address 10.3.30.1 255.255.255.0
 ip access-group 121 in
 ip helper-address 10.1.0.1
 ipv6 address FE80::3 link-local
 ipv6 address 2001:620:3101:3030::3/64
 ipv6 enable
 ipv6 nd other-config-flag
 ipv6 nd ra interval 10
 ipv6 dhcp relay destination 2001:620:3101:1001::1 Serial0/0/0
 ipv6 traffic-filter s30 in
 ipv6 ospf 1 area 0
!
interface GigabitEthernet0/0.99
 encapsulation dot1Q 99
 ip address 10.3.99.1 255.255.255.0
```

```
  ip helper-address 10.1.0.1
  ipv6 address FE80::3 link-local
  ipv6 address 2001:620:3101:3099::3/64
  ipv6 enable
  ipv6 nd other-config-flag
  ipv6 nd ra interval 10
  ipv6 dhcp relay destination 2001:620:3101:1001::1 Serial0/0/0
  ipv6 ospf 1 area 0
!
interface GigabitEthernet0/1
 no ip address
 shutdown
 duplex auto
 speed auto
!
interface Serial0/0/0
 ip address 10.4.40.6 255.255.255.252
 ipv6 address FE80::3 link-local
 ipv6 address 2001:620:3101:4040::3/64
 ipv6 enable
 ipv6 ospf 1 area 0
!
interface Serial0/0/1
 no ip address
 shutdown
 clock rate 2000000
!
router ospf 1
 passive-interface GigabitEthernet0/0.10
 passive-interface GigabitEthernet0/0.20
 passive-interface GigabitEthernet0/0.30
 passive-interface GigabitEthernet0/0.99
 network 10.3.10.0 0.0.0.255 area 0
 network 10.3.20.0 0.0.0.255 area 0
 network 10.3.30.0 0.0.0.255 area 0
 network 10.3.99.0 0.0.0.255 area 0
 network 10.4.40.4 0.0.0.3 area 0
!
ip forward-protocol nd
!
no ip http server
no ip http secure-server
!
!
access-list 119 deny    ip 10.3.10.0 0.0.0.255 10.1.20.0 0.0.0.255
access-list 119 deny    ip 10.3.10.0 0.0.0.255 10.1.30.0 0.0.0.255
access-list 119 deny    ip 10.3.10.0 0.0.0.255 10.2.20.0 0.0.0.255
access-list 119 deny    ip 10.3.10.0 0.0.0.255 10.2.30.0 0.0.0.255
access-list 119 deny    ip 10.3.10.0 0.0.0.255 10.3.20.0 0.0.0.255
access-list 119 deny    ip 10.3.10.0 0.0.0.255 10.3.30.0 0.0.0.255
access-list 119 permit ip any any
access-list 119 permit tcp any any
access-list 120 deny    ip 10.3.20.0 0.0.0.255 10.1.10.0 0.0.0.255
access-list 120 deny    ip 10.3.20.0 0.0.0.255 10.1.30.0 0.0.0.255
```

```
access-list 120 deny    ip 10.3.20.0 0.0.0.255 10.2.10.0 0.0.0.255
access-list 120 deny    ip 10.3.20.0 0.0.0.255 10.2.30.0 0.0.0.255
access-list 120 deny    ip 10.3.20.0 0.0.0.255 10.3.10.0 0.0.0.255
access-list 120 deny    ip 10.3.20.0 0.0.0.255 10.3.30.0 0.0.0.255
access-list 120 permit ip any any
access-list 120 permit tcp any any
access-list 121 deny    ip 10.3.30.0 0.0.0.255 10.1.10.0 0.0.0.255
access-list 121 deny    ip 10.3.30.0 0.0.0.255 10.1.20.0 0.0.0.255
access-list 121 deny    ip 10.3.30.0 0.0.0.255 10.2.10.0 0.0.0.255
access-list 121 deny    ip 10.3.30.0 0.0.0.255 10.2.20.0 0.0.0.255
access-list 121 deny    ip 10.3.30.0 0.0.0.255 10.3.10.0 0.0.0.255
access-list 121 deny    ip 10.3.30.0 0.0.0.255 10.3.20.0 0.0.0.255
access-list 121 permit ip any any
access-list 121 permit tcp any any
ipv6 router ospf 1
!
!
!
!
ipv6 access-list s10
 permit ipv6 any any
 permit tcp any any
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:1020::/64
 deny ipv6 2001:620:3101:3020::/64 2001:620:3101:1030::/64
 deny ipv6 2001:620:3101:3020::/64 2001:620:3101:2010::/64
 deny ipv6 2001:620:3101:3020::/64 2001:620:3101:2030::/64
 deny ipv6 2001:620:3101:3020::/64 2001:620:3101:3010::/64
 deny ipv6 2001:620:3101:3030::/64 2001:620:3101:2020::/64
 deny ipv6 2001:620:3101:3030::/64 2001:620:3101:3010::/64
 deny ipv6 2001:620:3101:3030::/64 2001:620:3101:3020::/64
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:1030::/64
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:2020::/64
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:2030::/64
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:3020::/64
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:3030::/64
!
ipv6 access-list s103
 permit ipv6 any any
 permit tcp any any
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:1020::/64
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:1030::/64
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:2020::/64
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:2030::/64
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:3020::/64
 deny ipv6 2001:620:3101:3010::/64 2001:620:3101:3030::/64
!
ipv6 access-list s20
 deny ipv6 2001:620:3101:3020::/64 2001:620:3101:1010::/64
 deny ipv6 2001:620:3101:3020::/64 2001:620:3101:1030::/64
 deny ipv6 2001:620:3101:3020::/64 2001:620:3101:2010::/64
 deny ipv6 2001:620:3101:3020::/64 2001:620:3101:2030::/64
 deny ipv6 2001:620:3101:3020::/64 2001:620:3101:3010::/64
 deny ipv6 2001:620:3101:3020::/64 2001:620:3101:3030::/64
 permit ipv6 any any
```

```
 permit tcp any any
!
ipv6 access-list s30
 deny ipv6 2001:620:3101:3030::/64 2001:620:3101:1010::/64
 deny ipv6 2001:620:3101:3030::/64 2001:620:3101:1020::/64
 deny ipv6 2001:620:3101:3030::/64 2001:620:3101:2010::/64
 deny ipv6 2001:620:3101:3030::/64 2001:620:3101:2020::/64
 deny ipv6 2001:620:3101:3030::/64 2001:620:3101:3010::/64
 deny ipv6 2001:620:3101:3030::/64 2001:620:3101:3020::/64
 permit ipv6 any any
 permit tcp any any
!
control-plane
!
!
!
line con 0
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
 login
 transport input all
!
scheduler allocate 20000 1000
!
end
```