R1

!

hostname R1

!

boot-start-marker

boot-end-marker

!

!

no aaa new-model

memory-size iomem 5

no ip icmp rate-limit unreachable

ip cef

!

!

!

!

ip vrf ICBC\_REC

rd 86:86

route-target import 100:3

route-target import 100:4

!

ip vrf ICBC\_SEND

rd 186:186

route-target export 100:100

!

no ip domain lookup

ip auth-proxy max-nodata-conns 3

ip admission max-nodata-conns 3

!

mpls label range 100 199

mpls label protocol ldp

multilink bundle-name authenticated

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archive

log config

hidekeys

!

!

!

!

ip tcp synwait-time 5

!

!

!

!

interface Loopback0

ip address 1.1.1.1 255.255.255.0

ip router isis

!

interface FastEthernet0/0

no ip address

duplex auto

speed auto

!

interface FastEthernet0/0.10

encapsulation dot1Q 10

ip vrf forwarding ICBC\_REC

ip address 10.10.10.1 255.255.255.0

!

interface FastEthernet0/0.20

encapsulation dot1Q 20

ip vrf forwarding ICBC\_SEND

ip address 20.20.20.1 255.255.255.0

!

interface FastEthernet0/0.30

encapsulation dot1Q 30

ip address 30.30.30.1 255.255.255.0

!

interface FastEthernet0/1

ip address 18.18.18.1 255.255.255.0

duplex auto

speed auto

!

interface Serial1/0

ip address 12.12.12.1 255.255.255.0

ip router isis

mpls ip

serial restart-delay 0

!

interface Serial1/1

no ip address

shutdown

serial restart-delay 0

!

interface Serial1/2

no ip address

shutdown

serial restart-delay 0

!

interface Serial1/3

no ip address

shutdown

serial restart-delay 0

!

router isis

net 49.0000.0000.0000.0001.00

!

router bgp 1

no synchronization

bgp router-id 1.1.1.1

bgp log-neighbor-changes

network 30.30.30.0 mask 255.255.255.0

neighbor 2.2.2.2 remote-as 1

neighbor 2.2.2.2 update-source Loopback0

neighbor 18.18.18.8 remote-as 2

neighbor 18.18.18.8 route-map OUT out

neighbor 30.30.30.7 remote-as 567

no auto-summary

!

address-family vpnv4

neighbor 2.2.2.2 activate

neighbor 2.2.2.2 send-community extended

exit-address-family

!

address-family ipv4 vrf ICBC\_SEND

neighbor 20.20.20.7 remote-as 567

neighbor 20.20.20.7 activate

neighbor 20.20.20.7 allowas-in 1

no synchronization

exit-address-family

!

address-family ipv4 vrf ICBC\_REC

neighbor 10.10.10.7 remote-as 567

neighbor 10.10.10.7 activate

no synchronization

exit-address-family

!

ip forward-protocol nd

!

!

no ip http server

no ip http secure-server

!

!

ip prefix-list OUT seq 5 permit 30.30.30.0/24

!

!

!

route-map OUT permit 10

match ip address prefix-list OUT

!

!

mpls ldp router-id Loopback0

!

!

control-plane

!

!

!

!

!

!

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!

!

!

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

login

!

!

end

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R2

hostname R2

!

boot-start-marker

boot-end-marker

!

!

no aaa new-model

memory-size iomem 5

no ip icmp rate-limit unreachable

ip cef

!

!

!

!

no ip domain lookup

ip auth-proxy max-nodata-conns 3

ip admission max-nodata-conns 3

!

mpls label range 200 299

mpls label protocol ldp

multilink bundle-name authenticated

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!

archive

log config

hidekeys

!

!

!

!

ip tcp synwait-time 5

!

!

!

!

interface Loopback0

ip address 2.2.2.2 255.255.255.0

ip router isis

!

interface FastEthernet0/0

no ip address

shutdown

duplex auto

speed auto

!

interface FastEthernet0/1

no ip address

shutdown

duplex auto

speed auto

!

interface Serial1/0

ip address 12.12.12.2 255.255.255.0

ip router isis

mpls ip

serial restart-delay 0

!

interface Serial1/1

ip address 23.23.23.2 255.255.255.0

ip router isis

mpls ip

serial restart-delay 0

!

interface Serial1/2

ip address 24.24.24.2 255.255.255.0

ip router isis

mpls ip

serial restart-delay 0

!

interface Serial1/3

no ip address

shutdown

serial restart-delay 0

!

router isis

net 49.0000.0000.0000.0002.00

!

router bgp 1

no synchronization

bgp router-id 2.2.2.2

bgp log-neighbor-changes

neighbor 1.1.1.1 remote-as 1

neighbor 1.1.1.1 update-source Loopback0

neighbor 3.3.3.3 remote-as 1

neighbor 3.3.3.3 update-source Loopback0

neighbor 4.4.4.4 remote-as 1

neighbor 4.4.4.4 update-source Loopback0

no auto-summary

!

address-family vpnv4

neighbor 1.1.1.1 activate

neighbor 1.1.1.1 send-community extended

neighbor 1.1.1.1 route-reflector-client

neighbor 3.3.3.3 activate

neighbor 3.3.3.3 send-community extended

neighbor 3.3.3.3 route-reflector-client

neighbor 4.4.4.4 activate

neighbor 4.4.4.4 send-community extended

neighbor 4.4.4.4 route-reflector-client

exit-address-family

!

ip forward-protocol nd

!

!

no ip http server

no ip http secure-server

!

!

!

!

!

mpls ldp router-id Loopback0

!

!

control-plane

!

!

!

!

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!

!

!

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

login

!

!

end

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R3

hostname R3

!

boot-start-marker

boot-end-marker

!

!

no aaa new-model

memory-size iomem 5

no ip icmp rate-limit unreachable

ip cef

!

!

!

!

ip vrf ICBC

rd 86:86

route-target export 100:3

route-target import 100:100

!

no ip domain lookup

ip auth-proxy max-nodata-conns 3

ip admission max-nodata-conns 3

!

mpls label range 300 399

mpls label protocol ldp

multilink bundle-name authenticated

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archive

log config

hidekeys

!

!

!

!

ip tcp synwait-time 5

!

!

!

!

interface Loopback0

ip address 3.3.3.3 255.255.255.0

ip router isis

!

interface FastEthernet0/0

ip vrf forwarding ICBC

ip address 35.35.35.3 255.255.255.0

duplex auto

speed auto

!

interface FastEthernet0/1

no ip address

shutdown

duplex auto

speed auto

!

interface Serial1/0

no ip address

shutdown

serial restart-delay 0

!

interface Serial1/1

ip address 23.23.23.3 255.255.255.0

ip router isis

mpls ip

serial restart-delay 0

!

interface Serial1/2

no ip address

shutdown

serial restart-delay 0

!

interface Serial1/3

no ip address

shutdown

serial restart-delay 0

!

router isis

net 49.0000.0000.0000.0003.00

!

router bgp 1

no synchronization

bgp router-id 3.3.3.3

bgp log-neighbor-changes

neighbor 2.2.2.2 remote-as 1

neighbor 2.2.2.2 update-source Loopback0

no auto-summary

!

address-family vpnv4

neighbor 2.2.2.2 activate

neighbor 2.2.2.2 send-community extended

exit-address-family

!

address-family ipv4 vrf ICBC

neighbor 35.35.35.5 remote-as 567

neighbor 35.35.35.5 activate

no synchronization

exit-address-family

!

ip forward-protocol nd

!

!

no ip http server

no ip http secure-server

!

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!

mpls ldp router-id Loopback0

!

!

control-plane

!

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!

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

login

!

!

end

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R4

hostname R4

!

boot-start-marker

boot-end-marker

!

!

no aaa new-model

memory-size iomem 5

no ip icmp rate-limit unreachable

ip cef

!

!

!

!

ip vrf ICBC

rd 86:86

route-target export 100:4

route-target import 100:100

!

no ip domain lookup

ip auth-proxy max-nodata-conns 3

ip admission max-nodata-conns 3

!

mpls label range 400 499

mpls label protocol ldp

multilink bundle-name authenticated

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!

archive

log config

hidekeys

!

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!

!

ip tcp synwait-time 5

!

!

!

!

interface Loopback0

ip address 4.4.4.4 255.255.255.0

ip router isis

!

interface FastEthernet0/0

ip vrf forwarding ICBC

ip address 46.46.46.4 255.255.255.0

duplex auto

speed auto

!

interface FastEthernet0/1

no ip address

shutdown

duplex auto

speed auto

!

interface Serial1/0

no ip address

shutdown

serial restart-delay 0

!

interface Serial1/1

no ip address

shutdown

serial restart-delay 0

!

interface Serial1/2

ip address 24.24.24.4 255.255.255.0

ip router isis

mpls ip

serial restart-delay 0

!

interface Serial1/3

no ip address

shutdown

serial restart-delay 0

!

router isis

net 49.0000.0000.0000.0004.00

!

router bgp 1

no synchronization

bgp router-id 4.4.4.4

bgp log-neighbor-changes

neighbor 2.2.2.2 remote-as 1

neighbor 2.2.2.2 update-source Loopback0

no auto-summary

!

address-family vpnv4

neighbor 2.2.2.2 activate

neighbor 2.2.2.2 send-community extended

exit-address-family

!

address-family ipv4 vrf ICBC

neighbor 46.46.46.6 remote-as 567

neighbor 46.46.46.6 activate

no synchronization

exit-address-family

!

ip forward-protocol nd

!

!

no ip http server

no ip http secure-server

!

!

!

!

!

mpls ldp router-id Loopback0

!

!

control-plane

!

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!

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

login

!

!

end

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R5

!

hostname R5

!

boot-start-marker

boot-end-marker

!

!

no aaa new-model

memory-size iomem 5

no ip icmp rate-limit unreachable

ip cef

!

!

!

!

no ip domain lookup

ip auth-proxy max-nodata-conns 3

ip admission max-nodata-conns 3

!

multilink bundle-name authenticated

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archive

log config

hidekeys

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!

ip tcp synwait-time 5

!

!

!

!

interface Loopback0

ip address 10.2.2.2 255.255.255.0

!

interface FastEthernet0/0

ip address 35.35.35.5 255.255.255.0

duplex auto

speed auto

!

interface FastEthernet0/1

no ip address

shutdown

duplex auto

speed auto

!

router bgp 567

no synchronization

bgp router-id 5.5.5.5

bgp log-neighbor-changes

network 10.2.2.0 mask 255.255.255.0

neighbor 35.35.35.3 remote-as 1

neighbor 35.35.35.3 allowas-in 2

no auto-summary

!

ip forward-protocol nd

!

!

no ip http server

no ip http secure-server

!

!

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!

!

!

control-plane

!

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!

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

login

!

!

end

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R7

!

hostname R7

!

boot-start-marker

boot-end-marker

!

!

no aaa new-model

memory-size iomem 5

no ip icmp rate-limit unreachable

ip tcp synwait-time 5

!

!

ip cef

no ip domain lookup

!

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!

interface Loopback0

ip address 10.1.1.1 255.255.255.0

!

interface FastEthernet0/0

no ip address

duplex auto

speed auto

!

interface FastEthernet0/0.10

encapsulation dot1Q 10

ip address 10.10.10.7 255.255.255.0

ip nat inside

ip virtual-reassembly

!

interface FastEthernet0/0.20

encapsulation dot1Q 20

ip address 20.20.20.7 255.255.255.0

ip nat inside

ip virtual-reassembly

!

interface FastEthernet0/0.30

encapsulation dot1Q 30

ip address 30.30.30.7 255.255.255.0

ip nat outside

ip virtual-reassembly

!

router bgp 567

no synchronization

bgp router-id 7.7.7.7

bgp log-neighbor-changes

network 10.1.1.0 mask 255.255.255.0

neighbor 10.10.10.1 remote-as 1

neighbor 10.10.10.1 allowas-in 1

neighbor 20.20.20.1 remote-as 1

neighbor 30.30.30.1 remote-as 1

no auto-summary

!

no ip http server

!

!

ip nat inside source list 1 interface FastEthernet0/0.30 overload

!

access-list 1 permit 10.0.0.0 0.255.255.255

!

!

!

control-plane

!

!

!

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!

!

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

login

!

!

end

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R8

hostname R8

!

boot-start-marker

boot-end-marker

!

!

no aaa new-model

memory-size iomem 5

no ip icmp rate-limit unreachable

ip cef

!

!

!

!

no ip domain lookup

ip auth-proxy max-nodata-conns 3

ip admission max-nodata-conns 3

!

multilink bundle-name authenticated

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archive

log config

hidekeys

!

!

!

!

ip tcp synwait-time 5

!

!

!

!

interface FastEthernet0/0

ip address 89.89.89.8 255.255.255.0

duplex auto

speed auto

!

interface FastEthernet0/1

ip address 18.18.18.8 255.255.255.0

duplex auto

speed auto

!

router bgp 2

no synchronization

bgp router-id 8.8.8.8

bgp log-neighbor-changes

neighbor 18.18.18.1 remote-as 1

neighbor 89.89.89.9 remote-as 2

neighbor 89.89.89.9 next-hop-self

no auto-summary

!

ip forward-protocol nd

!

!

no ip http server

no ip http secure-server

!

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!

!

control-plane

!

!

!

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!

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

login

!

!

end

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R9

hostname R9

!

boot-start-marker

boot-end-marker

!

!

no aaa new-model

memory-size iomem 5

no ip icmp rate-limit unreachable

ip cef

!

!

!

!

no ip domain lookup

ip auth-proxy max-nodata-conns 3

ip admission max-nodata-conns 3

!

multilink bundle-name authenticated

!

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!

archive

log config

hidekeys

!

!

!

!

ip tcp synwait-time 5

!

!

!

!

interface Loopback0

ip address 9.9.9.9 255.255.255.0

!

interface FastEthernet0/0

ip address 89.89.89.9 255.255.255.0

duplex auto

speed auto

!

interface FastEthernet0/1

no ip address

shutdown

duplex auto

speed auto

!

router bgp 2

no synchronization

bgp router-id 9.9.9.9

bgp log-neighbor-changes

network 9.9.9.0 mask 255.255.255.0

neighbor 89.89.89.8 remote-as 2

no auto-summary

!

ip forward-protocol nd

!

!

no ip http server

no ip http secure-server

!

!

!

!

!

!

!

control-plane

!

!

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!

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!

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!

!

!

line con 0

exec-timeout 0 0

privilege level 15

logging synchronous

line aux 0

exec-timeout 0 0

privilege level 15

logging synchronous

line vty 0 4

login

!

!

end