DLS1#show run

Building configuration...

Current configuration : 5939 bytes

!

! Last configuration change at 21:21:13 EET Sun Nov 11 2018

! NVRAM config last updated at 22:42:39 EET Sun Nov 11 2018

!

version 15.1

service timestamps debug datetime msec

service timestamps log datetime msec

no service password-encryption

service compress-config

!

hostname DLS1

!

boot-start-marker

boot-end-marker

!

!

!

no aaa new-model

clock timezone EET 2 0

!

ip cef

!

!

no ip domain-lookup

ipv6 unicast-routing

ipv6 cef

ipv6 multicast rpf use-bgp

!

key chain ripAuth

key 1

key-string cisco123

key chain eigrpAuth

key 1

key-string cisco123

!

spanning-tree mode pvst

spanning-tree extend system-id

spanning-tree vlan 66,110 priority 24576

spanning-tree vlan 100,120 priority 28672

!

!

!

!

!

!

vlan internal allocation policy ascending

!

!

!

!

!

interface Port-channel5

switchport

switchport trunk encapsulation dot1q

switchport trunk native vlan 222

switchport trunk allowed vlan 66,100,110,120

switchport mode trunk

!

interface Port-channel2

switchport

switchport trunk encapsulation dot1q

switchport trunk native vlan 222

switchport trunk allowed vlan 66,100,110,120

switchport mode trunk

!

interface Ethernet0/0

no switchport

ip address 10.15.2.2 255.255.255.252

ip nat inside

ipv6 address FE80::6 link-local

ipv6 address 2001:DB8:CAFE:2::2/64

spanning-tree bpduguard enable

!

interface Ethernet0/1

no switchport

ip address 10.15.5.2 255.255.255.252

ip nat inside

ipv6 address FE80::6 link-local

ipv6 address 2001:DB8:CAFE:5::2/64

spanning-tree bpduguard enable

!

interface Ethernet0/2

duplex auto

!

interface Ethernet0/3

duplex auto

!

interface Ethernet1/0

no switchport

ip address 10.15.0.2 255.255.255.252

ip nat outside

ipv6 address FE80::6 link-local

ipv6 address 2001:DB8:CAFE::2/64

spanning-tree bpduguard enable

!

interface Ethernet1/1

duplex auto

!

interface Ethernet1/2

switchport trunk encapsulation dot1q

switchport trunk native vlan 222

switchport trunk allowed vlan 66,100,110,120

switchport mode trunk

duplex auto

channel-group 2 mode on

!

interface Ethernet1/3

switchport trunk encapsulation dot1q

switchport trunk native vlan 222

switchport trunk allowed vlan 66,100,110,120

switchport mode trunk

duplex auto

channel-group 2 mode on

!

interface Ethernet2/0

switchport trunk encapsulation dot1q

switchport trunk native vlan 222

switchport trunk allowed vlan 66,100,110,120

switchport mode trunk

duplex auto

channel-group 5 mode on

!

interface Ethernet2/1

switchport trunk encapsulation dot1q

switchport trunk native vlan 222

switchport trunk allowed vlan 66,100,110,120

switchport mode trunk

duplex auto

channel-group 5 mode on

!

interface Ethernet2/2

no switchport

ip address 10.15.7.1 255.255.255.252

ip nat inside

ip rip authentication mode md5

ip rip authentication key-chain ripAuth

ipv6 address FE80::6 link-local

ipv6 address 2001:DB8:CAFE:7::1/64

ipv6 enable

ipv6 rip RIPng enable

spanning-tree bpduguard enable

!

interface Ethernet2/3

shutdown

duplex auto

!

interface Vlan66

ip address 10.1.66.4 255.255.255.0

ipv6 address FE80::D1 link-local

ipv6 address 2001:DB8:CAFE:66::D1/64

ipv6 enable

!

interface Vlan100

ip address 10.1.100.4 255.255.255.0

ipv6 address FE80::D1 link-local

ipv6 address 2001:DB8:CAFE:100::D1/64

ipv6 enable

!

interface Vlan110

ip address 10.1.110.4 255.255.255.0

ipv6 address FE80::D1 link-local

ipv6 address 2001:DB8:CAFE:110::D1/64

ipv6 enable

!

interface Vlan120

ip address 10.1.120.4 255.255.255.0

ipv6 address FE80::D1 link-local

ipv6 address 2001:DB8:CAFE:120::D1/64

ipv6 enable

!

!

router eigrp CASESTUDY

!

address-family ipv4 unicast autonomous-system 1

!

af-interface Ethernet0/0

authentication mode hmac-sha-256 password

authentication key-chain eigrpAuth

exit-af-interface

!

af-interface Ethernet0/1

authentication mode hmac-sha-256 password

authentication key-chain eigrpAuth

exit-af-interface

!

topology base

redistribute rip metric 10000 100 255 1 15000

redistribute bgp 15 metric 100 1 255 1 1500

redistribute static metric 100 1 255 1 1500

exit-af-topology

network 10.15.2.2 0.0.0.0

network 10.15.5.2 0.0.0.0

exit-address-family

!

address-family ipv6 unicast autonomous-system 1

!

af-interface Ethernet0/0

authentication mode hmac-sha-256 password

authentication key-chain eigrpAuth

exit-af-interface

!

af-interface Ethernet0/1

authentication mode hmac-sha-256 password

authentication key-chain eigrpAuth

exit-af-interface

!

topology base

redistribute rip RIPng metric 10000 100 255 1 15000

redistribute bgp 15 metric 100 1 255 1 1500

redistribute static metric 100 1 255 1 1500

exit-af-topology

exit-address-family

!

router rip

version 2

redistribute connected

redistribute static metric 1

redistribute eigrp 1 metric 1

network 10.0.0.0

no auto-summary

!

router bgp 15

bgp router-id 7.5.5.5

bgp log-neighbor-changes

neighbor 10.15.0.1 remote-as 15

!

address-family ipv4

network 10.15.0.0 mask 255.255.255.252

network 10.15.2.0 mask 255.255.255.252

network 10.15.5.0 mask 255.255.255.252

network 10.15.7.0 mask 255.255.255.252

network 10.15.8.0 mask 255.255.255.252

network 10.15.9.0 mask 255.255.255.252

redistribute connected

redistribute eigrp 1 metric 1

neighbor 10.15.0.1 activate

neighbor 10.15.0.1 next-hop-self

exit-address-family

!

address-family ipv6

neighbor 10.15.0.1 activate

exit-address-family

!

ip nat inside source list 1 interface Ethernet1/0 overload

ip nat inside source list 2 interface Ethernet1/0 overload

!

!

no ip http server

ip route 0.0.0.0 0.0.0.0 10.15.0.1

!

access-list 1 permit 10.15.0.0 0.0.255.255

access-list 2 permit 10.1.0.0 0.0.255.255

ipv6 route ::/0 2001:DB8:CAFE::1

ipv6 router rip RIPng

redistribute connected

redistribute eigrp 1 metric 1

redistribute static metric 1

!

!

!

!

control-plane

!

!

line con 0

logging synchronous

line aux 0

line vty 0 4

login

!

ntp update-calendar

ntp server 10.15.2.1

end