

# SCREENSHOT

Cisco Packet Tracer - U:\saves\Project.pkt

File Edit Options View Tools Extensions Help

Logical Physical x: 933, y: 255

[Root]

2001:3B21:1:3::/48

2001:3B21:1:1::/48

2001:3B21:2:1::/48

2001:3B21:3:1::/48

2001:3B21:2:3::/48

2001:3B21:3:3::/48

2001:3B21:FFFF:1::/1, /2/48

2001:3B21:FFFF:2::/1, /2/64

2001:3B21:FFFF:3::/1, /2/64

2950T-24 Switch0

2950T-24 Switch1

2911 Toledo

2911 Napoleon

2911 Port Clinton

Switch2

Switch3

PC-PT PC0

PC-PT PC1

PC-PT PC2

PC-PT PC3

PC-PT PC4

PC-PT PC5

PC-PT PC6

PC-PT PC7

PC-PT PC8

PC-PT PC9

PC-PT PC10

PC-PT PC11

PC-PT PC12

PC-PT PC13

PC-PT PC14

PC-PT PC15

PC-PT PC16

PC-PT PC17

PC-PT PC18

PC-PT PC19

PC-PT PC20

PC-PT PC21

PC-PT PC22

PC-PT PC23

PC-PT PC24

PC-PT PC25

PC-PT PC26

PC-PT PC27

PC-PT PC28

PC-PT PC29

PC-PT PC30

PC-PT PC31

PC-PT PC32

PC-PT PC33

PC-PT PC34

PC-PT PC35

PC-PT PC36

PC-PT PC37

PC-PT PC38

PC-PT PC39

PC-PT PC40

PC-PT PC41

PC-PT PC42

PC-PT PC43

PC-PT PC44

PC-PT PC45

PC-PT PC46

PC-PT PC47

PC-PT PC48

PC-PT PC49

PC-PT PC50

PC-PT PC51

PC-PT PC52

PC-PT PC53

PC-PT PC54

PC-PT PC55

PC-PT PC56

Simulation Panel

Event List

Vis.	Time(sec)	Last Device	At Device	Type
	2.060	Switch3	Port Clinton	ICMPv6
	2.062	Port Clinton	Toledo	ICMPv6
	2.065	Toledo	Switch0	ICMPv6
	2.067	Switch0	PC0	ICMPv6
	3.068	--	PC0	ICMPv6
	3.070	PC0	Switch0	ICMPv6
	3.072	Switch0	Toledo	ICMPv6
	3.074	Toledo	Port Clinton	ICMPv6
	3.077	Port Clinton	Switch3	ICMPv6
	3.079	Switch3	PC47	ICMPv6
	3.081	PC47	Switch3	ICMPv6
	3.083	Switch3	Port Clinton	ICMPv6
	3.084	Port Clinton	Toledo	ICMPv6
	3.086	Toledo	Switch0	ICMPv6
	3.088	Switch0	PC0	ICMPv6
	3.088	--	PC0	ICMPv6
	3.091	PC0	Switch0	ICMPv6
	3.093	Switch0	Toledo	ICMPv6
	3.094	Toledo	Napoleon	ICMPv6
	3.095	Napoleon	Switch2	ICMPv6
	3.097	Switch2	PC29	ICMPv6
	3.097	Switch2	PC30	ICMPv6
	3.097	Switch2	PC31	ICMPv6
	3.097	Switch2	PC32	ICMPv6
	3.097	Switch2	PC33	ICMPv6
	3.097	Switch2	PC34	ICMPv6
	3.097	Switch2	PC35	ICMPv6
	3.097	Switch2	PC36	ICMPv6
	3.097	Switch2	PC37	ICMPv6
	3.097	Switch2	PC38	ICMPv6
	3.097	Switch2	PC39	ICMPv6
	3.097	Switch2	PC40	ICMPv6
	3.097	Switch2	PC41	ICMPv6
	3.097	Switch2	PC42	ICMPv6
	3.099	PC35	Switch2	ICMPv6
	3.101	Switch2	Napoleon	ICMPv6
	3.103	Napoleon	Toledo	ICMPv6
	3.105	Toledo	Switch0	ICMPv6
	3.107	Switch0	PC0	ICMPv6

Reset Simulation ☐ Constant Delay Captured to: 3.107 s

Play Controls

Event List Filters - Visible Events  
ICMPv6, NDP, OSPFv6, RIPv6

Edit Filters Show All/None

PC0

Physical Config Desktop Programming Attributes

Command Prompt

Reply from 2001:3B21:3:3::5: bytes=32 time=21ms TTL=126  
Reply from 2001:3B21:3:3::5: bytes=32 time=19ms TTL=126  
Reply from 2001:3B21:3:3::5: bytes=32 time=19ms TTL=126  
Reply from 2001:3B21:3:3::5: bytes=32 time=20ms TTL=126  
  
Ping statistics for 2001:3B21:3:3::5:  
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 19ms, Maximum = 21ms, Average = 19ms  
C:\>ping 2001:3B21:3:3::5  
  
Pinging 2001:3B21:3:3::5 with 32 bytes of data:  
  
Reply from 2001:3B21:3:3::5: bytes=32 time=19ms TTL=126  
Reply from 2001:3B21:3:3::5: bytes=32 time=21ms TTL=126  
Reply from 2001:3B21:3:3::5: bytes=32 time=21ms TTL=126  
Reply from 2001:3B21:3:3::5: bytes=32 time=20ms TTL=126  
  
Ping statistics for 2001:3B21:3:3::5:  
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),  
Approximate round trip times in milli-seconds:  
Minimum = 19ms, Maximum = 21ms, Average = 20ms  
C:\>ping 2001:3B21:2:3::7  
  
Pinging 2001:3B21:2:3::7 with 32 bytes of data:  
  
Reply from 2001:3B21:2:3::7: bytes=32 time=19ms TTL=126

☐ Top

```

TOL-RT#show ipv6 route
IPv6 Routing Table - 9 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
        U - Per-user Static route, M - MIPv6
        I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
        O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
        ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
        D - EIGRP, EX - EIGRP external
C   2001:3B21:1::/48 [0/0]
    via Vlan1, directly connected
L   2001:3B21:1:1::1/128 [0/0]
    via Vlan1, receive
S   2001:3B21:2::/48 [1/0]
    via 2001:3B21:FFFF:1::2
S   2001:3B21:3::/48 [1/0]
    via 2001:3B21:FFFF:2::2
C   2001:3B21:FFFF:1::/64 [0/0]
    via GigabitEthernet0/1, directly connected
L   2001:3B21:FFFF:1::1/128 [0/0]
    via GigabitEthernet0/1, receive
C   2001:3B21:FFFF:2::/64 [0/0]
    via GigabitEthernet0/2, directly connected
L   2001:3B21:FFFF:2::1/128 [0/0]
    via GigabitEthernet0/2, receive
L   FF00::/8 [0/0]
    via Null0, receive

```

```

PTC-RT#show ipv6 route
IPv6 Routing Table - 9 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
        U - Per-user Static route, M - MIPv6
        I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
        O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
        ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
        D - EIGRP, EX - EIGRP external
S   2001:3B21:1::/48 [1/0]
    via 2001:3B21:FFFF:2::1
S   2001:3B21:2::/48 [1/0]
    via 2001:3B21:FFFF:3::1
C   2001:3B21:3::/48 [0/0]
    via Vlan1, directly connected
L   2001:3B21:3:1::1/128 [0/0]
    via Vlan1, receive
C   2001:3B21:FFFF:2::/64 [0/0]
    via GigabitEthernet0/1, directly connected
L   2001:3B21:FFFF:2::2/128 [0/0]
    via GigabitEthernet0/1, receive
C   2001:3B21:FFFF:3::/64 [0/0]
    via GigabitEthernet0/2, directly connected
L   2001:3B21:FFFF:3::2/128 [0/0]
    via GigabitEthernet0/2, receive
L   FF00::/8 [0/0]
    via Null0, receive

```

```

NAP-RT#show ipv6 route
IPv6 Routing Table - 9 entries
Codes: C - Connected, L - Local, S - Static, R - RIP, B - BGP
        U - Per-user Static route, M - MIPv6
        I1 - ISIS L1, I2 - ISIS L2, IA - ISIS interarea, IS - ISIS summary
        O - OSPF intra, OI - OSPF inter, OE1 - OSPF ext 1, OE2 - OSPF ext 2
        ON1 - OSPF NSSA ext 1, ON2 - OSPF NSSA ext 2
        D - EIGRP, EX - EIGRP external
S   2001:3B21:1::/48 [1/0]
    via 2001:3B21:FFFF:1::1
C   2001:3B21:2::/48 [0/0]
    via Vlan1, directly connected
L   2001:3B21:2:1::1/128 [0/0]
    via Vlan1, receive
S   2001:3B21:3::/48 [1/0]
    via 2001:3B21:FFFF:3::2
C   2001:3B21:FFFF:1::/64 [0/0]
    via GigabitEthernet0/1, directly connected
L   2001:3B21:FFFF:1::2/128 [0/0]
    via GigabitEthernet0/1, receive
C   2001:3B21:FFFF:3::/64 [0/0]
    via GigabitEthernet0/2, directly connected
L   2001:3B21:FFFF:3::1/128 [0/0]
    via GigabitEthernet0/2, receive
L   FF00::/8 [0/0]
    via Null0, receive

```

# TOLEDO ROUTER

```
!  
version 15.1  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname TOL-RT  
!  
!  
!  
!  
!  
!  
!  
!  
no ip cef  
ipv6 unicast-routing  
!  
no ipv6 cef  
!  
!  
!  
license udi pid CISCO2911/K9 sn FTX15248E28-  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
spanning-tree mode pvst  
!  
!  
!  
!  
!  
interface GigabitEthernet0/0  
no ip address  
duplex auto  
speed auto  
shutdown  
!  
interface GigabitEthernet0/1  
no ip address  
duplex auto
```

```
    speed auto
    ipv6 address 2001:3B21:FFFF:1::1/64
    ipv6 enable
!
interface GigabitEthernet0/2
    no ip address
    duplex auto
    speed auto
    ipv6 address 2001:3B21:FFFF:2::1/64 anycast
    ipv6 enable
!
interface FastEthernet0/0/0
    switchport mode access
    switchport nonegotiate
!
interface FastEthernet0/0/1
    switchport mode access
    switchport nonegotiate
!
interface FastEthernet0/0/2
    switchport mode access
    switchport nonegotiate
!
interface FastEthernet0/0/3
    switchport mode access
    switchport nonegotiate
!
interface Vlan1
    description 1
    no ip address
    ipv6 address 2001:3B21:1:1::1/48
    ipv6 enable
!
router rip
!
ip classless
!
ip flow-export version 9
!
ipv6 route 2001:3B21:3::/48 2001:3B21:FFFF:2::2
ipv6 route 2001:3B21:2::/48 2001:3B21:FFFF:1::2
!
!
!
!
!
!
line con 0
!
line aux 0
!
line vty 0 4
    login
```

```
!  
!  
!  
end
```

## NAPOLEON ROUTER

```
!  
version 15.1  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname NAP-RT  
!  
!  
!  
!  
!  
!  
!  
!  
no ip cef  
ipv6 unicast-routing  
!  
no ipv6 cef  
!  
!  
!  
!  
license udi pid CISC02911/K9 sn FTX1524R856-  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
spanning-tree mode pvst  
!  
!  
!  
!  
!  
!  
interface GigabitEthernet0/0  
no ip address  
duplex auto
```

```
speed auto
shutdown
!
interface GigabitEthernet0/1
no ip address
duplex auto
speed auto
ipv6 address 2001:3B21:FFFF:1::2/64 anycast
ipv6 enable
!
interface GigabitEthernet0/2
no ip address
duplex auto
speed auto
ipv6 address 2001:3B21:FFFF:3::1/64 anycast
ipv6 enable
!
interface FastEthernet0/0/0
switchport mode access
switchport nonegotiate
!
interface FastEthernet0/0/1
switchport mode access
switchport nonegotiate
!
interface FastEthernet0/0/2
switchport mode access
switchport nonegotiate
!
interface FastEthernet0/0/3
switchport mode access
switchport nonegotiate
!
interface Vlan1
no ip address
ipv6 address 2001:3B21:2:1::1/48
ipv6 enable
!
ip classless
!
ip flow-export version 9
!
ipv6 route 2001:3B21:3::/48 2001:3B21:FFFF:3::2
ipv6 route 2001:3B21:1::/48 2001:3B21:FFFF:1::1
!
!
no cdp run
!
!
!
!
!
!
line con 0
```

```
!  
line aux 0  
!  
line vty 0 4  
  login  
!  
!  
!  
End
```

## PORT CLINTON ROUTER

```
!  
version 15.1  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname PTC-RT  
!  
!  
!  
!  
!  
!  
!  
!  
no ip cef  
ipv6 unicast-routing  
!  
no ipv6 cef  
!  
!  
!  
!  
license udi pid CISCO2911/K9 sn FTX15248961-  
!  
!  
!  
!  
!  
!  
!  
!  
!  
!  
spanning-tree mode pvst  
!  
!  
!  
!
```

```
!  
!  
interface GigabitEthernet0/0  
  no ip address  
  duplex auto  
  speed auto  
  shutdown  
!  
interface GigabitEthernet0/1  
  no ip address  
  duplex auto  
  speed auto  
  ipv6 address 2001:3B21:FFFF:2::2/64 anycast  
  ipv6 enable  
!  
interface GigabitEthernet0/2  
  no ip address  
  duplex auto  
  speed auto  
  ipv6 address 2001:3B21:FFFF:3::2/64 anycast  
  ipv6 enable  
!  
interface FastEthernet0/0/0  
  switchport mode access  
  switchport nonegotiate  
!  
interface FastEthernet0/0/1  
  switchport mode access  
  switchport nonegotiate  
!  
interface FastEthernet0/0/2  
  switchport mode access  
  switchport nonegotiate  
!  
interface FastEthernet0/0/3  
  switchport mode access  
  switchport nonegotiate  
!  
interface Vlan1  
  no ip address  
  ipv6 address 2001:3B21:3:1::1/48  
  ipv6 enable  
!  
ip classless  
!  
ip flow-export version 9  
!  
ipv6 route 2001:3B21:1::/48 2001:3B21:FFFF:2::1  
ipv6 route 2001:3B21:2::/48 2001:3B21:FFFF:3::1  
!  
!  
no cdp run  
!  
!
```



```
!  
!  
!  
!  
line con 0  
!  
line aux 0  
!  
line vty 0 4  
  login  
!  
!  
!  
end
```