8.5.1 Lab - Configure DHCPv6 (Answers)

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Lab - Configure DHCPv6 (Instructor Version)

Topology

Addressing Table

Device Interface IPv6 Address

R1 G0/0/0

2001:db8:acad:2::1 /64

Device	Interface	IPv6 Address
		fe80::1
	G0/0/1	2001:db8:acad:1::1/64
		fe80::1
R2	G0/0/0	2001:db8:acad:2::2/64
		fe80::2
	G0/0/1	2001:db8:acad:3::1 /64
		fe80::1
PC-A	NIC	DHCP
РС-В	NIC	DHCP

Objectives

- Part 1: Build the Network and Configure Basic Device Settings
- Part 2: Verify SLAAC address assignment from R1
- Part 3: Configure and verify a Stateless DHCPv6 Server on R1
- · Part 4: Configure and verify a Stateful DHCPv6 Server on R1
- Part 5: Configure and verify a DHCPv6 Relay on R2

Background / Scenario

The dynamic assignment of IPv6 global unicast addresses (GUA) can be configured the following three ways:

- Stateless Address Auoconfiguration (SLACC)
- Stateless Dynamic Host Configuration Protocol for IPv6 (DHCPv6)
- · Stateful DHCPv6

When using SLACC to assign IPv6 addresses to hosts a DHCPv6 server is not used. Because a DHCPv6 server is not used when implementing SLACC, hosts are unable to receive additional critical network information, including a domain name server (DNS) address as well as a domain name.

When using Stateless DHCPv6 to assign IPv6 addresses to host, a DHCPv6 server is used to assign the additional critical network information, however the IPv6 address is assigned using SLACC.

When implementing Stateful DHCPv6, a DHCPv6 server assigns all network information, including the IPv6 address.

The determination of how hosts obtain they dynamic IPv6 addressing is dependent on flag setting contain within the router advertisement (RA) messages.

In this scenario, the company has grown in size, and the network administrators can no longer assign IP addresses to devices manually. Your job is to configure the R2 router to assign IPv6 addresses on two different subnets connected to router R1.

Note: The routers used with CCNA hands-on labs are Cisco 4221 with Cisco IOS XE Release 16.9.4 (universalk9 image). The switches used in the labs are Cisco Catalyst 2960s with Cisco IOS Release 15.2(2) (lanbasek9 image). Other routers, switches, and Cisco IOS versions can be used. Depending on the model and Cisco IOS version, the commands available and the output produced might vary from what is shown in the labs. Refer to the Router Interface Summary Table at the end of the lab for the correct interface identifiers.

Note: Ensure that the routers and switches have been erased and have no startup configurations. If you are unsure contact your instructor.

Required Resources

- 2 Routers (Cisco 4221 with Cisco IOS XE Release 16.9.4 universal image or comparable)
- 2 Switches (Cisco 2960 with Cisco IOS Release 15.2(2) lanbasek9 image or comparable) Optional
- 2 PCs (Windows with a terminal emulation program, such as Tera Term)
- Console cables to configure the Cisco IOS devices via the console ports
- · Ethernet cables as shown in the topology

Instructions

Part 1: Build the Network and Configure Basic Device Settings

In Part 1, you will set up the network topology and configure basic settings on the PC hosts and switches.

Step 1: Cable the network as shown in the topology.

Attach the devices as shown in the topology diagram, and cable as necessary.

Step 2: Configure basic settings for each switch. (Optional)

a. Assign a device name to the switch.

```
switch(config)# hostname S1
switch(config)# hostname S2
```

b. Disable DNS lookup to prevent the router from attempting to translate incorrectly entered commands as though they were host names.

```
S1(config)# no ip domain-lookup
S2(config)# no ip domain-lookup
```

c. Assign **class** as the privileged EXEC encrypted password.

```
S1(config)# enable secret class
S2(config)# enable secret class
```

d. Assign cisco as the console password and enable login.

```
S1(config)# line console 0
S1(config-line)# password cisco
S1(config-line)# login

S2(config)# line console 0
S2(config-line)# password cisco
S2(config-line)# login
```

e. Assign cisco as the VTY password and enable login.

```
S1(config)# line vty 0 4
S1(config-line)# password cisco
S1(config-line)# login

S2(config)# line vty 0 4
S2(config-line)# password cisco
S2(config-line)# login
```

f. Encrypt the plaintext passwords.

```
S1(config)# service password-encryption
S2(config)# service password-encryption
```

g. Create a banner that warns anyone accessing the device that unauthorized access is prohibited.

```
S1(config)# banner motd $ Authorized Users Only! $
S2(config)# banner motd $ Authorized Users Only! $
```

h. Shutdown all unused ports

```
S1(config)# interface range f0/1-4, f0/7-24, g0/1-2
S1(config-if-range)# shutdown
S2(config)# interface range f0/1-4, f0/7-17, f0/19-24, g0/1-2
S2(config-if-range)# shutdown
```

i. Save the running configuration to the startup configuration file.

```
S1# copy running-config startup-config
S2# copy running-config startup-config
Step 3: Configure basic settings for each router.
```

Assign a device name to the router.

```
router(config)# hostname R1
router(config)# hostname R2
```

b. Disable DNS lookup to prevent the router from attempting to translate incorrectly entered commands as though they were host names.

```
R1(config)# no ip domain lookup
R2(config)# no ip domain lookup
c. Assign class as the privileged EXEC encrypted password.
R1(config)# enable secret class
R2(config)# enable secret class
d. Assign cisco as the console password and enable login.
R1(config)# line console 0
R1(config-line)# password cisco
R1(config-line)# login
R2(config)# line console 0
R2(config-line)# password cisco
R2(config-line)# login
e. Assign cisco as the VTY password and enable login.
R1(config)# line vty 0 4
R1(config-line)# password cisco
R1(config-line)# login
R2(config)# line vty 0 4
R2(config-line)# password cisco
R2(config-line)# login
f. Encrypt the plaintext passwords.
R1(config)# service password-encryption
R2(config)# service password-encryption
g. Create a banner that warns anyone accessing the device that unauthorized access is prohibited.
R1(config)# banner motd $ Authorized Users Only! $
R2(config)# banner motd $ Authorized Users Only! $
h. Enable IPv6 Routing
R1(config)# ipv6 unicast-routing
R2(config)# ipv6 unicast-routing
i. Save the running configuration to the startup configuration file.
R1(config)# exit
R1# copy running-config startup-config
R2(config)# exit
R2# copy running-config startup-config
Step 4: Configure interfaces and routing for both routers.
a. Configure the Go/o/o and Go/o/1 interfaces on R1 and R2 with the IPv6 addresses specified in the table above.
R1(config)# interface g0/0/1
R1(config-if)# ipv6 address fe80::1 link-local
R1(config-if)# ipv6 address 2001:db8:acad:1::1/64
R1(config-if)# no shutdown
R1(config)# interface g0/0/0
R1(config-if)# ipv6 address fe80::1 link-local
R1(config-if)# ipv6 address 2001:db8:acad:2::1/64
R1(config-if)# no shutdown
R2(config)# interface g0/0/1
R2(config-if)# ipv6 address fe80::1 link-local
R2(config-if)# ipv6 address 2001:db8:acad:3::1/64
R2(config-if)# no shutdown
R1(config)# interface g0/0/0
R1(config-if)# ipv6 address fe80::2 link-local
R1(config-if)# ipv6 address 2001:db8:acad:2::2/64
R1(config-if)# no shutdown
```

b. Configure a default route on each router pointed to the IP address of Go/o/o on the other router.

```
R1(config)# ipv6 route ::/0 2001:db8:acad:2::2
R2(config)# ipv6 route ::/0 2001:db8:acad:2::1
```

c. Verify routing is working by pinging R2's Go/o/1 address from R1

```
R1#(config)# exit
R1# ping 2001:db8:acad:1::1
```

d. Save the running configuration to the startup configuration file.

```
R1# copy running-config startup-config
```

Part 2: Verify SLAAC Address Assignment from R1

In Part 2, you will verify that Host PC-A receives an IPv6 address using the SLAAC method.

Power PC-A up and ensure that the NIC is configured for IPv6 automatic configuration.

After a few moments, the results of the command ipconfig should show that PC-A has assigned itself an address from the 2001:db8:1::/64 network.

```
C:\Users\Student> ipconfig
Windows IP Configuration

Ethernet adapter Ethernet 2:

Connection-specific DNS Suffix :
IPv6 Address. . . . : 2001:db8:acad:1:5c43:ee7c:2959:da68
Temporary IPv6 Address. . . : 2001:db8:acad:1:3c64:e4f9:46e1:1f23
Link-local IPv6 Address . . : fe80::5c43:ee7c:2959:da68%6
IPv4 Address. . . . : 169.254.218.104
Subnet Mask . . . . : 255.255.0.0
Default Gateway . . : fe80::1%6
```

Where did the host-id portion of the address come from?

Answer will depend upon the operating system configuration. Either the host generates an EUI-64 address based on the interface MAC, or the host generates a random 64-bit address.

Part 3: Configure and Verify a DHCPv6 server on R1

In Part 3, you will configure and verify a stateless DHCP server on R1. The objective is to provide PC-A with DNS server and Domain information.

Step 1: Examine the configuration of PC-A in more detail.

a. Issue the command ipconfig /all on PC-A and take a look at the output.

```
C:\Users\Student> ipconfig /all
Windows IP Configuration
  Host Name . . . . . . . . . . . . . . . DESKTOP-3FR7RKA
  Primary Dns Suffix . . . . . :
  Node Type . . . . . . . . . . : Hybrid
  IP Routing Enabled. . . . . . : No
  WINS Proxy Enabled. . . . . . : No
Ethernet adapter Ethernet0:
  Connection-specific DNS Suffix . :
  Description . . . . . . . . . : Intel(R) 852574L Gigabit Network Connection
  . . . . . . . : 2001:db8:acad:1:5c43:ee7c:2959:da68(Preferred)
  IPv6 Address. .
  Temporary IPv6 Address. . . . . : 2001:db8:acad:1:3c64:e4f9:46e1:1f23(Preferred)
  Link-local IPv6 Address . . . . : fe80::5c43:ee7c:2959:da68%6(Preferred)
  IPv4 Address. . . . . . . . . . . . . . . . . 169.254.218.104(Preferred)
  Default Gateway . . . . . . : fe80::1%6
  DHCPv6 IAID . . . . . . . . . : 50334761
  DHCPv6 Client DUID. . . . . . . : 00-01-00-01-24-F5-CE-A2-00-50-56-B3-63-6D
  DNS Servers . . . . . . . . . : fec0:0:0:fffff::1%1
                                  fec0:0:0:ffff::2%1
                                  fec0:0:0:ffff::3%1
  NetBIOS over Tcpip. . . . . . : Enabled
```

b. Notice that there is no Primary DNS suffix. Also note that the DNS server addresses provided are "site local anycast" addresses, and not unicast addresses, as would be expected.

Step 2: Configure R1 to provide stateless DHCPv6 for PC-A.

a. Create an IPv6 DHCP pool on R1 named R1-STATELESS. As a part of that pool, assign the DNS server address as 2001:db8:acad::1 and the domain name as stateless.com.

```
R1(config)# ipv6 dhcp pool R1-STATELESS
R1(config-dhcp)# dns-server 2001:db8:acad::254
R1(config-dhcp)# domain-name STATELESS.com
```

b. Configure the Go/o/1 interface on R1 to provide the OTHER config flag to the R1 LAN, and specify the DHCP pool you just created as the DHCP resource for this interface.

```
R1(config)# interface g0/0/1
R1(config-if)# ipv6 nd other-config-flag
R1(config-if)# ipv6 dhcp server R1-STATELESS
```

c. Save the running configuration to the startup configuration file.

R1# copy running-config startup-config

C:\Users\Student> ipconfig /all

- d. Restart PC-A.
- e. Examine the output of ipconfig /all and notice the changes.

Ethernet adapter Ethernet0:

```
Connection-specific DNS Suffix \cdot : STATELESS.com
Description . . . . . . . . . : Intel(R) 82574L Gigabit Network Connection
Physical Address. . . . . . . . : 00-50-56-83-63-6D
DHCP Enabled. . . . . . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IPv6 Address. . . . . . . . . : 2001:db8:acad:1:5c43:ee7c:2959:da68(Preferred)
Temporary IPv6 Address. . . . . : 2001:db8:acad:1:3c64:e4f9:46e1:1f23(Preferred)
Link-local IPv6 Address . . . . . : fe80::5c43:ee7c:2959:da68%6(Preferred)
IPv4 Address. . . . . . . . . . . . . . . . . 169.254.218.104(Preferred)
Default Gateway . . . . . . . : fe80::1%6
DHCPv6 IAID . . . . . . . . . . . . 50334761
DHCPv6 Client DUID. . . . . . . : 00-01-00-01-24-F5-CE-A2-00-50-56-B3-63-6D
DNS Servers . . . . . . . . . : 2001:db8:acad::254
NetBIOS over Tcpip. . . . . . : Enabled
Connection-specific DNS Suffix Search List :
                                 STATELESS.com
```

f. Test connectivity by pinging R2's Go/o/1 interface IP address.

Part 4: Configure a stateful DHCPv6 server on R1

In Part 4, you will configure R1 to respond to DHCPv6 requests from the LAN on R2.

a. Create a DHCPv6 pool on R1 for the 2001:db8:acad:3:aaaa::/80 network. This will provide addresses to the LAN connected to interface Go/o/1 on R2. As a part of the pool, set the DNS server to 2001:db8:acad::254, and set the domain name to STATEFUL.com.

```
R1(config)# ipv6 dhcp pool R2-STATEFUL
R1(config-dhcp)# address prefix 2001:db8:acad:3:aaa::/80
R1(config-dhcp)# dns-server 2001:db8:acad::254
R1(config-dhcp)# domain-name STATEFUL.com
```

b. Assign the DHCPv6 pool you just created to interface go/o/o on R1.

```
R1(config)# interface g0/0/0
R1(config-if)# ipv6 dhcp server R2-STATEFUL
```

Part 5: Configure and verify DHCPv6 relay on R2.

In Part 5, you will configure and verify DHCPv6 relay on R2, allowing PC-B to receive an IPv6 Address.

Step 1: Power on PC-B and examine the SLAAC address that it generates.

```
C:\Users\Student> ipconfig /all
Windows IP Configuration
  Host Name . . . . . . . . . . . . . DESKTOP-3FR7RKA
  Primary Dns Suffix \dots:
  Node Type . . . . . . . . . . . . . . . Hybrid
  IP Routing Enabled. . . . . . . : No
  WINS Proxy Enabled. . . . . . . . No
Ethernet adapter Ethernet0:
  Connection-specific DNS Suffix . :
  Description . . . . . . . . . : Intel(R) 82574L Gigabit Network Connection
  Physical Address. . . . . . . . : 00-50-56-B3-7B-06
  DHCP Enabled. . . . . . . . . : Yes
  Autoconfiguration Enabled . . . . : Yes
  IPv6 Address. . . . . . . . . : 2001:db8:acad:3:a0f3:3d39:f9fb:a020(Preferred)
  Temporary IPv6 Address. . . . . : 2001:db8:acad:3:d4f3:7b16:eeee:b2b5(Preferred)
  Link-local IPv6 Address . . . . : fe80::a0f3:3d39:f9fb:a020%6(Preferred)
  IPv4 Address. . . . . . . . . . . . . . . . . . 169.254.160.32(Preferred)
  Default Gateway . . . . . . . : fe80::1%6
  DHCPv6 IAID . . . . . . . . . . . . . 50334761
  DHCPv6 Client DUID. . . . . . . : 00-01-00-01-24-F2-08-38-00-50-56-B3-7B-06
  DNS Servers . . . . . . . . : fec0:0:0:ffff::1%1
                                    fec0:0:0:ffff::2%1
                                    fec0:0:0:ffff::3%1
```

Notice in the output that the prefix used is 2001:db8:acad:3::

NetBIOS over Tcpip. : Enabled

Step 2: Configure R2 as a DHCP relay agent for the LAN on Go/o/1.

a. Configure the ipv6 dhcp relay command on R2 interface Go/o/1, specifying the destination address of the Go/o/o interface on R1. Also configure the managed-config-flag command.

```
R2(config)# interface g0/0/1
R2(config-if)# ipv6 nd managed-config-flag
R2(config-if)# ipv6 dhcp relay destination 2001:db8:acad:2::1 g0/0/0
```

b. Save your configuration.

R2# copy running-configuration startup-configuration

Step 3: Attempt to acquire an IPv6 address from DHCPv6 on PC-B.

a. Restart PC-B.

b. Open a command prompt on PC-B and issue the command ipconfig /all and examine the output to see the results of the DHCPv6 relay operation.

```
C:\Users\Student> ipconfig /all
Windows IP Configuration
```

```
Host Name . . . . : DESKTOP-3FR7RKA
Primary Dns Suffix . . . :
Node Type . . . . : Hybrid
IP Routing Enabled . . : No
WINS Proxy Enabled . . : No
DNS Suffix Search List . . : STATEFUL.com
```

Ethernet adapter Ethernet0:

```
Connection-specific DNS Suffix . : STATEFUL.com
Description . . . . . . . . : Intel(R) 852574L Gigabit Network Connection
Physical Address. . . . . . . . : 00-50-56-B3-7B-06
DHCP Enabled. . . . . . . . . : Yes
Autoconfiguration Enabled . . . . : Yes
IPv6 Address. . . . . . . . . : 2001:db8:acad3:aaaa:7104:8b7d:5402(Preferred)
Lease Obtained. . . . . . . . . : Sunday, October 6, 2019 3:27:13 PM \,
Lease Expires . . . . . . . . : Tuesday, October 8, 2019 3:27:13 PM
Link-local IPv6 Address . . . . . : fe80::a0f3:3d39:f9fb:a020%6(Preferred)
IPv4 Address. . . . . . . . . . . . . . . . 169.254.160.32(Preferred)
Default Gateway . . . . . . . : fe80::2%6
DHCPv6 IAID . . . . . . . . . : 50334761
DHCPv6 Client DUID. . . . . . . : 00-01-00-01-24-F2-08-38-00-50-56-B3-7B-06
DNS Servers . . . . . . . . . . . : 2001:db8:acad::254
NetBIOS over Tcpip. . . . . . : Enabled
Connection-specific DNS Suffix Search List :
```

STATEFUL.com

c. Test connectivity by pinging R1's Go/o/1 interface IP address.

Device Configs - Final

Switch S1

```
S1# show run
Building configuration...
Current configuration : 1706 bytes
version 15.2
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
hostname S1
boot-start-marker
boot-end-marker
enable secret 5 $1$73g3$Jo3CGq7B8MLGHbPVaa7mW1
no aaa new-model
system mtu routing 1500
no ip domain-lookup
spanning-tree mode pvst
spanning-tree extend system-id
vlan internal allocation policy ascending
interface FastEthernet0/1
shutdown
interface FastEthernet0/2
interface FastEthernet0/3
shutdown
interface FastEthernet0/4
shutdown
interface FastEthernet0/5
interface FastEthernet0/6
interface FastEthernet0/7
shutdown
interface FastEthernet0/8
shutdown
interface FastEthernet0/9
shutdown
interface FastEthernet0/10
shutdown
interface FastEthernet0/11
shutdown
interface FastEthernet0/12
shutdown
interface FastEthernet0/13
shutdown
interface FastEthernet0/14
shutdown
interface FastEthernet0/15
shutdown
interface FastEthernet0/16
shutdown
interface FastEthernet0/17
shutdown
```

```
interface FastEthernet0/18
shutdown
interface FastEthernet0/19
shutdown
interface FastEthernet0/20
shutdown
interface FastEthernet0/21
shutdown
interface FastEthernet0/22
interface FastEthernet0/23
shutdown
interface FastEthernet0/24
shutdown
interface GigabitEthernet0/1
shutdown
interface GigabitEthernet0/2
shutdown
interface Vlan1
no ip address
ip http server
ip http secure-server
banner motd ^C Authorized Users Only! ^C
line con 0
password 7 13061E010803
login
line vty 0 4
password 7 13061E010803
login
line vty 5 15
login
end
```

Switch S2

```
S2# show run
Building configuration...
Current configuration : 1706 bytes
version 15.2
no service pad
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
hostname S2
boot-start-marker
boot-end-marker
enable secret 5 $1$fREN$AwrLs.iAyQlhBS7EhVz5J.
no aaa new-model
system mtu routing 1500
no ip domain-lookup
spanning-tree mode pvst
spanning-tree extend system-id
vlan internal allocation policy ascending
interface FastEthernet0/1
shutdown
interface FastEthernet0/2
shutdown
interface FastEthernet0/3
shutdown
interface FastEthernet0/4
shutdown
interface FastEthernet0/5
interface FastEthernet0/6
shutdown
interface FastEthernet0/7
shutdown
interface FastEthernet0/8
shutdown
interface FastEthernet0/9
shutdown
interface FastEthernet0/10
shutdown
interface FastEthernet0/11
shutdown
interface FastEthernet0/12
shutdown
interface FastEthernet0/13
shutdown
interface FastEthernet0/14
shutdown
interface FastEthernet0/15
interface FastEthernet0/16
shutdown
interface FastEthernet0/17
```

```
shutdown
interface FastEthernet0/18
interface FastEthernet0/19
shutdown
interface FastEthernet0/20
shutdown
interface FastEthernet0/21
shutdown
interface FastEthernet0/22
interface FastEthernet0/23
shutdown
interface FastEthernet0/24
shutdown
interface GigabitEthernet0/1
shutdown
interface GigabitEthernet0/2
shutdown
interface Vlan1
no ip address
ip http server
ip http secure-server
banner motd ^C Authorized Users Only! ^C
line con 0
password 7 121A0C041104
login
line vty 0 4
password 7 121A0C041104
login
line vty 5 15
login
end
```

Router R1

```
R1# show run
Building configuration...
Current configuration : 3959 bytes
version 16.9
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
platform qfp utilization monitor load 80
no platform punt-keepalive disable-kernel-core
hostname R1
boot-start-marker
boot-end-marker
enable secret 5 $1$I56A$PEdL3aayz4ui1KNVACjUE1
no aaa new-model
no ip domain lookup
login on-success log
subscriber templating
ipv6 unicast-routing
ipv6 dhcp pool R1-STATELESS
dns-server 2001:DB8:ACAD::254
domain-name STATELESS.com
ipv6 dhcp pool R2-STATEFUL
address prefix 2001:DB8:ACAD:3:AAAA::/80
dns-server 2001:DB8:ACAD::254
domain-name STATEFUL.com
multilink bundle-name authenticated
spanning-tree extend system-id
redundancy
mode none
interface GigabitEthernet0/0/0
no ip address
ipv6 address FE80::1 link-local
ipv6 address 2001:DB8:ACAD:2::1/64
ipv6 dhcp server R2-STATEFUL
negotiation auto
interface GigabitEthernet0/0/1
no ip address
negotiation auto
ipv6 address FE80::1 link-local
ipv6 address 2001:DB8:ACAD:1::1/64
ipv6 nd other-config-flag
ipv6 dhcp server R1-STATELESS
interface Serial0/1/0
no ip address
shutdown
interface Serial0/1/1
no ip address
shutdown
ip forward-protocol nd
no ip http server
ip http secure-server
```

```
! ipv6 route ::/0 2001:DB8:ACAD:2::2 ! ! ! control-plane ! banner motd ^C Authorized Users Only! ^C ! line con 0 password 7 030752180500 login transport input none stopbits 1 line aux 0 stopbits 1 line vty 0 4 password 7 045802150C2E login ! end
```

Router R2

```
R2# show run
Building configuration...
Current configuration : 1639 bytes
version 16.9
service timestamps debug datetime msec
service timestamps log datetime msec
service password-encryption
platform qfp utilization monitor load 80
no platform punt-keepalive disable-kernel-core
hostname R2
boot-start-marker
boot-end-marker
enable secret 5 $1$Q7m2$XP0D4vB3fJxSm3X3V53uq1
no aaa new-model
no ip domain lookup
login on-success log
subscriber templating
ipv6 unicast-routing
multilink bundle-name authenticated
spanning-tree extend system-id
redundancy
mode none
interface GigabitEthernet0/0/0
no ip address
ipv6 address FE80::2 link-local
ipv6 address 2001:DB8:ACAD:2::2/64
interface GigabitEthernet0/0/1
no ip address
negotiation auto
ipv6 address FE80::2 link-local
ipv6 address 2001:DB8:ACAD:3::1/64
ipv6 nd prefix 2001:DB8:ACAD:3::/64 2592000 604800 no-autoconfig
ipv6 nd managed-config-flag
ipv6 dhcp relay destination 2001:DB8:ACAD:2::1 GigabitEthernet0/0/0
interface Serial0/1/0
no ip address
interface Serial0/1/1
no ip address
ip forward-protocol nd
no ip http server
ip http secure-server
ipv6 route ::/0 2001:DB8:ACAD:2::1
control-plane
banner motd ^C Authorized Users Only! ^C
line con 0
password 7 045802150C2E
login
transport input none
stopbits 1
line aux 0
```

```
stopbits 1
line vty 0 4
password 7 00071A150754
login
!
!
```

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