Packet Tracer -   IPv6-

		IPv6- /	
R1	G0/0	2001:db8:1:1::1/64	—
		fe80::1	
	G0/1	2001:db8:1:2::1/64	—
		fe80::1	
	S0/0/0	2001:db8:1:a001::2/64	—
		fe80::1	
Sales	NIC	2001:db8:1:1::2/64	fe80::1
Billing	NIC	2001:db8:1:1::3/64	fe80::1
Accounting	NIC	2001:db8:1:1::4/64	fe80::1
Design	NIC	2001:db8:1:2::2/64	fe80::1
Engineering	NIC	2001:db8:1:2::3/64	fe80::1
CAD	NIC	2001:db8:1:2::4/64	fe80::1
ISP	S0/0/0	2001:db8:1:a001::1	fe80::1

1.   **IPv6-**

2.   **IPv6-**

3.   **IPv6-**

4.

IPv6-   ,
.   ,   IPv6-   .

1.   IPv6

1:   **IPv6.**

a.   **R1**   **CLI** (   ).
Enter.

.   EXEC.

.   **ipv6 unicast-routing**.
IPv6-   .

```
R1(config)# ipv6 unicast-routing

R1>enable
R1#ipv6 unicast-routing
         ^
% Invalid input detected at '^' marker.

R1#config t
Enter configuration commands, one per line.  End with CNTL/Z.
R1(config)#ipv6 unicast-routing
```

2. **IPv6-** **GigabitEthernet0/0.**

a. ,
GigabitEthernet0/0.

. IPv6- :

```
R1(config-if)# ipv6 address 2001:db8:1:1::1/64
```

. IPv6- :

```
R1(config-if)# ipv6 address fe80::1 link-local
```

. .

```
R1(config-if)# no shutdown
```

```
R1(config)#interface G0/0
R1(config-if)#ipv6 address 2001:db8:1:1::1/64
R1(config-if)#ipv6 address fe80::1 link-local
R1(config-if)# no shutdown
```

3. **IPv6-** **GigabitEthernet0/1.**

a. ,
GigabitEthernet0/1.

. IPv6- .

. IPv6- ,

```
R1(config)#interface G0/1
R1(config-if)#ipv6 address 2001:db8:1:2::1/64
R1(config-if)#ipv6 address fe80::1 link-local
R1(config-if)#no shutdown
```

4: **IPv6-** **Serial0/0/0.**

a. ,
Serial0/0/0.

. IPv6- .

. IPv6- ,

```
R1(config)#interface S0/0/0
R1(config-if)#ipv6 address 2001:db8:1:a001::2/64
R1(config-if)#ipv6 address fe80::1 link-local
R1(config-if)#
```

5: **IPv6** **R1.**

, ,
.

a. R1.

. , :

```
R1# show ipv6 interface brief
```

. , , .
. IPv6,
,
.

.

```
R1(config-if)# no ipv6 address 2001:db8:1:5::1/64
```

. NVRAM.

2. IPv6

1: IPv6 .

a. Accounting, Desktop ( )
IP Configuration (IP).

. IPv6 2001:db8:1:1::4 /64.

. IPv6- fe80::1.

IPv6 Configuration
- ○ Automatic　　　　　　　　　● Static
- IPv6 Address　　　2001:db8:1:1::4　　　　　　　/ 64
- Link Local Address　　FE80::201:C7FF:FE83:3CED
- Default Gateway　　fe80::1

2: IPv6- CAD

CAD , 1. IPv6- .
.

IPV6 Configuration
- ○ Automatic　　　　　　　　　● Static
- IPv6 Address　　　2001:db8:1:2::4　　　　　　/ 64
- Link Local Address　　FE80::20B:BEFF:FEBE:73E2
- Default Gateway　　fe80::1

2. IPv6

1: IPv6- Sales ( ) Billing
( ).

a. Billing ( ), Desktop ( )
IP Configuration (IP).

. IPv6 2001:db8:1:1::3 /64.

. IPv6- fe80::1.

IPv6 Configuration
- ○ Automatic　　　　　　　　　● Static
- IPv6 Address　　　2001:db8:1:1::3　　　　　　　/ 64
- Link Local Address
- Default Gateway　　fe80::1

. 1 1 Sales. IPv6- .

IPv6 Configuration
- ○ Automatic　　　　　　　　　● Static
- IPv6 Address　　　2001:db8:1:1::2　　　　　　/ 64
- Link Local Address
- Default Gateway　　fe80::1

2. _____ **IPv6-**_____ _____ **Engineering (**_____
) **Design (**_____**).**

a. _____ **Engineering (**_____**),** _____ **Desktop (**_____**)**
_____ **IP Configuration (**_____ IP).

. _____ _____ IPv6 _____ 2001:db8:1:2::3 _____ /64.

. _____ **IPv6-**_____ _____ **fe80::1**.
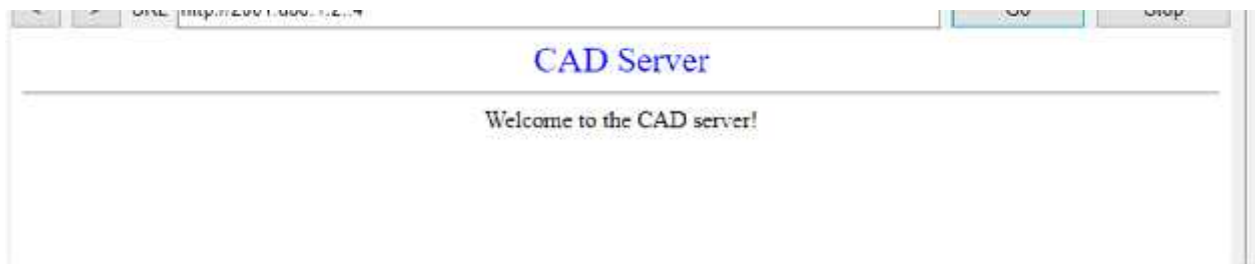

IPv6 Configuration
○ Automatic   ◉ Static
IPv6 Address   2001:DB9:1:2::3   / 64
Link Local Address   FE80::209:7CFF:FE61:6505
Default Gateway   FE80::1

. _____ 2 _____ 2 _____ **Design. IPv6-**_____ _____ .

○ Automatic   ◉ Static
IPv6 Address   2001:db8:1:2::2   / 64
Link Local Address
Default Gateway   fe80::1

4. _____

1: _____ **-**_____ _____ .

a. _____ **Sales (**_____**)** _____ **Desktop (**_____**).**
_____ **IP Configuration (**_____ IP).

. _____ **-**_____. _____ **2001:db8:1:1::4** _____ **Go.**
_____ **-** _____ **Accounting (**_____**).**

. _____ **2001:db8:1:2::4** _____ **Go**. _____ **-** _____ **CAD** .

. _____ 1 _____ 1 _____ .

CAD Server

Welcome to the CAD server!

2. _____ .

a. _____ .

. _____ **Desktop (**_____**)** _____ **Command Prompt (**_____**).**

. _____ **-**_____ :

```
PC> ping 2001:db8:1:a001::1
```

. _____ **ping** _____ , _____ ,
_____ .

```
C:\>ping 2001:db8:1:a001::1

Pinging 2001:db8:1:a001::1 with 32 bytes of data:

Reply from 2001:DB8:1:A001::1: bytes=32 time=1ms TTL=254
Reply from 2001:DB8:1:A001::1: bytes=32 time=19ms TTL=254
Reply from 2001:DB8:1:A001::1: bytes=32 time=19ms TTL=254
Reply from 2001:DB8:1:A001::1: bytes=32 time=18ms TTL=254

Ping statistics for 2001:DB8:1:A001::1:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
    Minimum = 1ms, Maximum = 19ms, Average = 14ms
```