

Static-Routing

Router 1

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#int gi 0/0

Router(config-if)#ip add 44.0.0.44 255.0.0.0

Router(config-if)#n sh

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Router(config-if)#int s 0/0/0

Router(config-if)#ip add 1.0.0.1 255.0.0.0

Router(config-if)#cl r 64000

Router(config-if)#n sh

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to down

Router(config-if)#!^Z

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#ip route 54.0.0.0 255.0.0.0 1.0.0.2

Router(config)#ip route 2.0.0.0 255.0.0.0 1.0.0.2

Router(config)#ip route 64.0.0.0 255.0.0.0 1.0.0.2

Router(config)#ip route 3.0.0.0 255.0.0.0 1.0.0.2

Router(config)#ip route 74.0.0.0 255.0.0.0 1.0.0.2

Router(config)#

Router 2

```
Router>en
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#int gi 0/1
Router(config-if)#ip add 54.0.0.54 255.0.0.0
Router(config-if)#n sh

Router(config-if)#
%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up
```

```
Router(config-if)#int s 0/0/0
Router(config-if)#ip add 1.0.0.2 255.0.0.0
Router(config-if)#cl r 64000
This command applies only to DCE interfaces
Router(config-if)#n sh
```

```
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up
```

```
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up
```

```
Router(config-if)#int gi 0/1
Router(config-if)#ip add 54.0.0.54 255.0.0.0
Router(config-if)#n sh
Router(config-if)#int s 0/0/1
Router(config-if)#ip add 2.0.0.1 255.0.0.0
Router(config-if)#cl r 64000
Router(config-if)#n sh
```

```
%LINK-5-CHANGED: Interface Serial0/0/1, changed state to down
```

```
Router(config-if)#en
% Ambiguous command: "en"
Router(config)#conf t
%Invalid hex value
Router(config)#config t
%Invalid hex value
Router(config)#int gi 0/1
Router(config-if)#ip add 54.0.0.54 255.0.0.0
Router(config-if)#n sh
Router(config-if)#int s 0/0/1
Router(config-if)#ip add 2.0.0.1 255.0.0.0
Router(config-if)#cl r 64000
Router(config-if)#n sh
```

```
Router(config-if)#en
% Ambiguous command: "en"
Router(config)#int gi 0/0
Router(config-if)#ip add 54.0.0.54 255.0.0.0
^
```

% Invalid input detected at '^' marker.

```
Router(config-if)#ip add 54.0.0.54 255.0.0.0
% 54.0.0.0 overlaps with GigabitEthernet0/1
Router(config-if)#en
% Ambiguous command: "en"
Router(config)#int gi 0/1
Router(config-if)#ip add 54.0.0.54 255.0.0.0
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up
```

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up

```
Router(config-if)#int s 0/0/1
Router(config-if)#ip add 2.0.0.1 255.0.0.0
Router(config-if)#cl r 64000
Router(config-if)#n sh
Router(config-if)#en
% Ambiguous command: "en"
Router(config)#int gi 0/0
Router(config-if)#ip add 54.0.0.54 255.0.0.0
% 54.0.0.0 overlaps with GigabitEthernet0/1
Router(config-if)#n sh
% 54.0.0.0 overlaps with GigabitEthernet0/1
GigabitEthernet0/0: incorrect IP address assignment
Router(config-if)#
%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up
```

```
Router>en
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#ip route 44.0.0.0 255.0.0.0 1.0.0.1
Router(config)#ip route 64.0.0.0 255.0.0.0 2.0.0.2
Router(config)#ip route 3.0.0.0 255.0.0.0 2.0.0.2
Router(config)#ip route 74.0.0.0 255.0.0.0 2.0.0.2
Router(config)#
```

Router-3

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#int gi 0/0

Router(config-if)#ip add 64.0.0.64 255.0.0.0

Router(config-if)#n sh

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Router(config-if)#int s 0/0/0

Router(config-if)#ip add 2.0.0.2 255.0.0.0

Router(config-if)#n sh

Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

Router(config-if)#!

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

^Z

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

Router#

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#int gi 0/0

Router(config-if)#int s 0/0/1

Router(config-if)#ip add 3.0.0.1 255.0.0.0

Router(config-if)#cl r 64000

Router(config-if)#n sh

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to down

Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/1, changed state to up

Router(config-if)#!^Z

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#ip route 74.0.0.0 255.0.0.0 3.0.0.2

Router(config)#ip route 44.0.0.0 255.0.0.0 2.0.0.1

Router(config)#ip route 1.0.0.0 255.0.0.0 2.0.0.1

Router(config)#ip route 54.0.0.0 255.0.0.0 2.0.0.1

Router(config)#

Router-4

Router>en

Router#config t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#int gi 0/0

Router(config-if)#ip add 74.0.0.74 255.0.0.0

Router(config-if)#n sh

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Router(config-if)#int s 0/0/0

Router(config-if)#ip add 3.0.0.2 255.0.0.0

Router(config-if)#cl r 64000

This command applies only to DCE interfaces

Router(config-if)#n sh

Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

Router(config-if)#!

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

^Z

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#ip route 64.0.0.0 255.0.0.0 3.0.0.1

Router(config)#ip route 2.0.0.0 255.0.0.0 3.0.0.1

Router(config)#ip route 54.0.0.0 255.0.0.0 3.0.0.1

Router(config)#ip route 1.0.0.0 255.0.0.0 3.0.0.1

Router(config)#ip route 44.0.0.0 255.0.0.0 3.0.0.1

Router(config)#

Default-Routing

Router-1

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#ip route 0.0.0.0 255.0.0.0 1.0.0.2

Router(config)#!^Z

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

Router-2

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#ip route 0.0.0.0 255.0.0.0 1.0.0.1

Router(config)#ip route 0.0.0.0 255.0.0.0 2.0.0.2

Router(config)#!^Z

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

Router-3

Router>en

Router#conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#ip route 0.0.0.0 255.0.0.0 2.0.0.1

Router(config)#ip route 0.0.0.0 255.0.0.0 3.0.0.2

Router(config)#!^Z

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

Router-4

Router>en

Router# conf t

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#ip route 0.0.0.0 255.0.0.0 3.0.0.1

Router(config)#!^Z

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

