

logical [Root]

Simple BGP

Autonomous System 65001

2811
R1
192.168.1.1

192.168.1.1

R1

Physical Config CLI

IOS Command Line Interface

```
R1>en
R1#
R1#conf
Configuring from terminal, memory, or network [terminal]? t
Enter configuration commands, one per line. End with CNTL/Z
R1(config)#
R1(config)#
R1(config)#
R1(config)#int fa0/0
R1(config-if)#
R1(config-if)#ip add 192.168.1.1 255.255.255.252
R1(config-if)#no shut

R1(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
R1(config-if)#
R1(config-if)#
```

Copy Paste

Viewport

R1

Physical

Config

CLI

IOS Command Line Interface

Success rate is 100 percent (5/5), round-trip min/avg/max = ^

R1#

R1#

R1#

R1#conf t

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

R1(config)#

R1(config)#

R1(config)#rou

R1(config)#router bg

R1(config)#router bgp 65001

R1(config-router)#ne

R1(config-router)#nei

R1(config-router)#neighbor 192.168.1.2 ?

next-hop-self Disable the next hop calculation for this

remote-as Specify a BGP neighbor

R1(config-router)#neighbor 192.168.1.2 re

R1(config-router)#neighbor 192.168.1.2 remote-as 65002

R1(config-router)#

Copy

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Autonomous System 65002



2811

R2

192.168.1.2

Time

Scenario 0

Fire

Last Status

[Root]

Simple BGP

Autonomous System 65001

2811
R1
192.168.1.1

192.168.1.1

R2

Physical Config CLI

IOS Command Line Interface

```
Sending 5, 100-byte ICMP Echos to 192.168.1.1, timeout is 2^
.!!!!
Success rate is 80 percent (4/5), round-trip min/avg/max =

R2#
R2#
R2#
R2#conf t
Enter configuration commands, one per line. End with CNTL/
R2(config)#
R2(config)#
R2(config)#rou
R2(config)#router bg
R2(config)#router bgp 65002
R2(config-router)#nei
R2(config-router)#neighbor 192.168.1.1 re
R2(config-router)#neighbor 192.168.1.1 remote-as 65001
R2(config-router)#%BGP-5-ADJCHANGE: neighbor 192.168.1.1 Up
```

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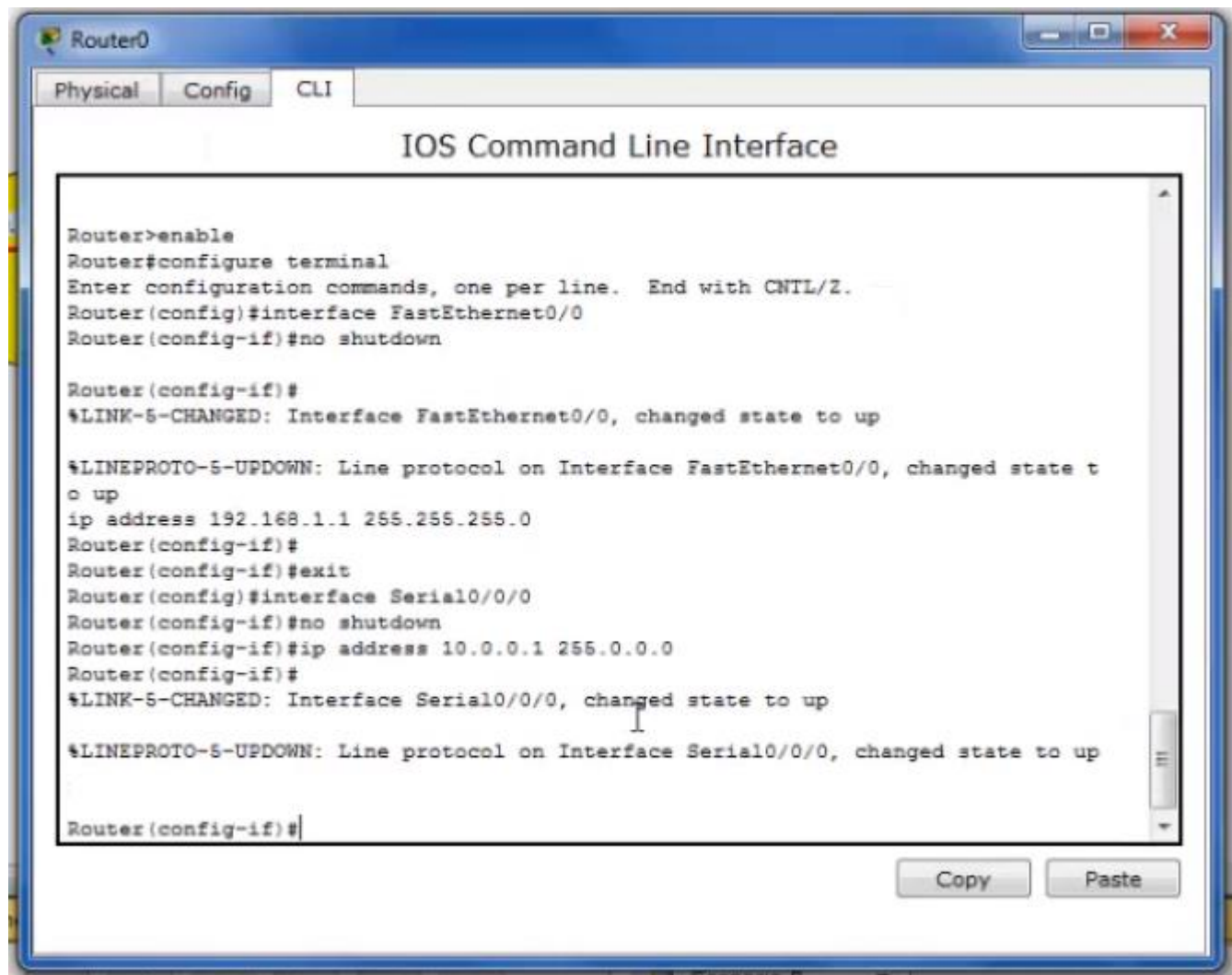
```
R1
Physical Config CLI
IOS Command Line Interface

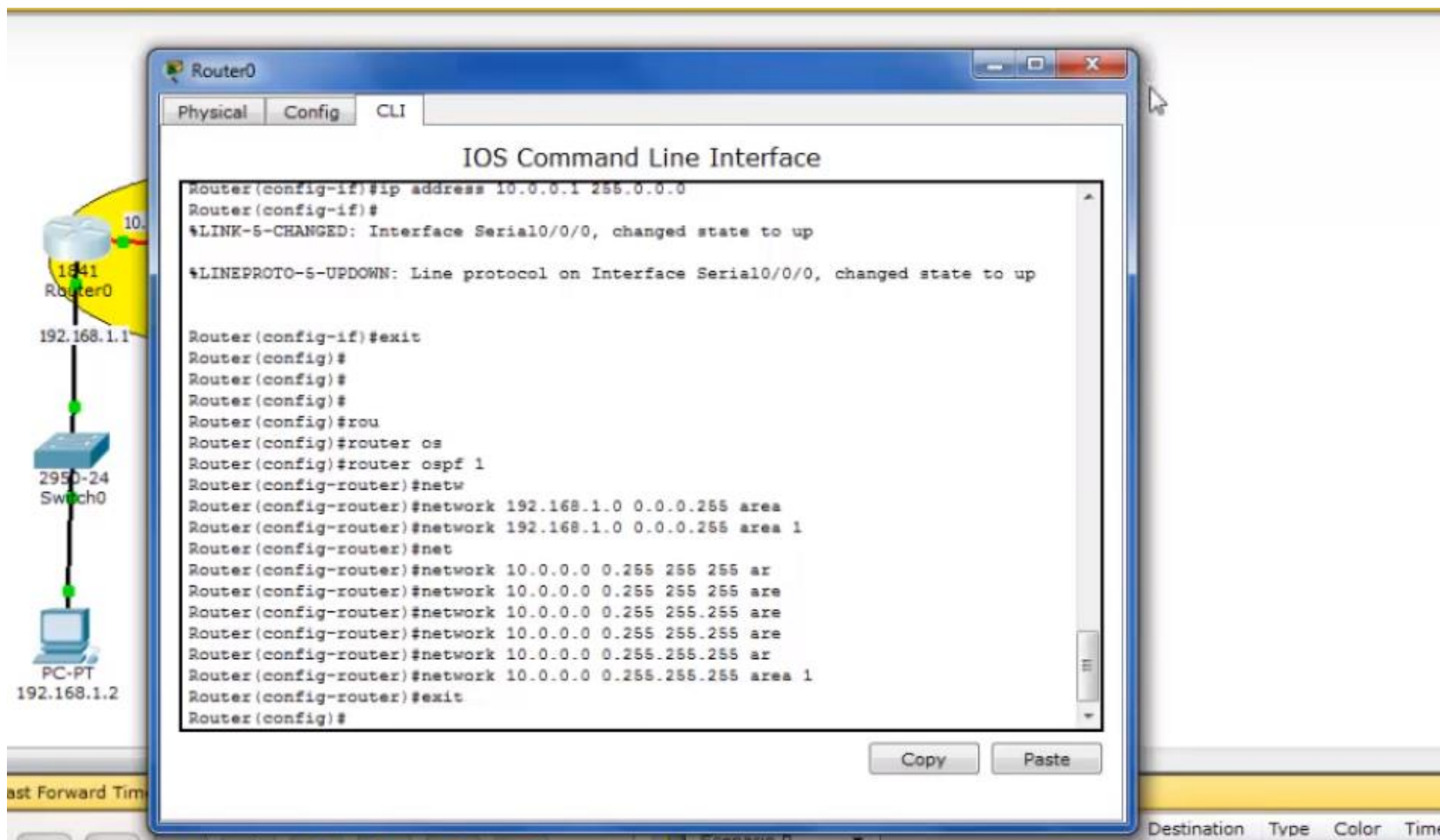
R1(config)#router bgp 65001
R1(config-router)#ne
R1(config-router)#nei
R1(config-router)#neighbor 192.168.1.2 ?
  next-hop-self  Disable the next hop calculation for this
  remote-as      Specify a BGP neighbor
R1(config-router)#neighbor 192.168.1.2 re
R1(config-router)#neighbor 192.168.1.2 remote-as 65002
R1(config-router)#exit
R1(config)#
R1(config)#%BGP-5-ADJCHANGE: neighbor 192.168.1.2 Up

R1(config)#
R1(config)#^Z
R1#
%SYS-5-CONFIG_I: Configured from console by console

R1#
R1#
R1#ping 192.168.1.2|

Copy Paste
```





Router0

Physical Config CLI

IOS Command Line Interface

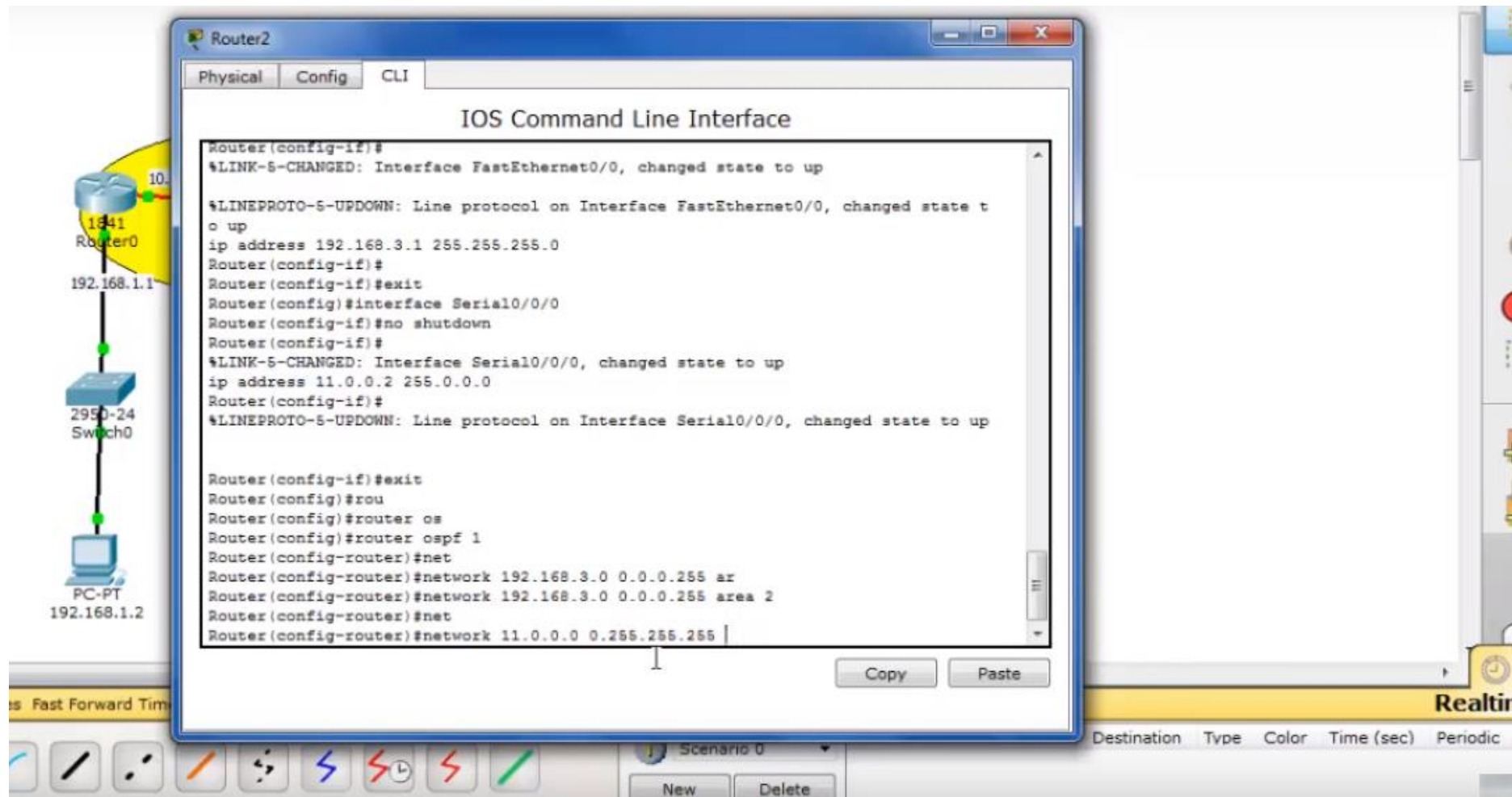
```
Router(config-if)#ip address 10.0.0.1 255.0.0.0
Router(config-if)#
%LINK-5-CHANGED: Interface Serial0/0/0, changed state to up

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

Router(config-if)#exit
Router(config)#
Router(config)#
Router(config)#
Router(config)#rou
Router(config)#router os
Router(config)#router ospf 1
Router(config-router)#netw
Router(config-router)#network 192.168.1.0 0.0.0.255 area
Router(config-router)#network 192.168.1.0 0.0.0.255 area 1
Router(config-router)#net
Router(config-router)#network 10.0.0.0 0.255.255.255 ar
Router(config-router)#network 10.0.0.0 0.255.255.255 are
Router(config-router)#network 10.0.0.0 0.255.255.255 are
Router(config-router)#network 10.0.0.0 0.255.255.255 are
Router(config-router)#network 10.0.0.0 0.255.255.255 ar
Router(config-router)#network 10.0.0.0 0.255.255.255 area 1
Router(config-router)#exit
Router(config)#
```

Copy Paste

Destination Type Color Time



The image shows a network diagram on the left and a CLI window titled "Router1" on the right. The network diagram includes a router (Router0) with IP 192.168.1.1, a switch (2950-24 Switch0), and a PC (PC-PT) with IP 192.168.1.2. The CLI window displays the "IOS Command Line Interface" with the following content:

```
Router1
Physical Config CLI
IOS Command Line Interface

Router(config)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console

Router#
Router#
Router#sh rou
Router#sh rout
Router#sh ip rou
Router#sh ip route

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
       D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
       N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
       E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
       i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
       * - candidate default, U - per-user static route, o - ODR
       P - periodic downloaded static route

Gateway of last resort is not set

C    10.0.0.0/8 is directly connected, Serial0/0/0
C    11.0.0.0/8 is directly connected, Serial0/0/1
O    192.168.1.0/24 [110/65] via 10.0.0.1, 00:02:29, Serial0/0/0
C    192.168.2.0/24 is directly connected, FastEthernet0/0
O    192.168.3.0/24 [110/65] via 11.0.0.2, 00:00:57, Serial0/0/1
Router#
```

At the bottom of the CLI window, there are "Copy" and "Paste" buttons. The bottom status bar of the application shows "Time: 00:11:42", "Power Cycle Devices", "Fast Forward Time", and a table with columns "Destination", "Type", "Color", and "Tir".

Logical [Root] New Cluster Move Object Set Tiled Background Viewport

192.168.1.0

Switch

PC-PT
PC0

Router1

Physical Config CLI

IOS Command Line Interface

```
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up
Router(config-if)#exit
Router(config)#interface FastEthernet0/0
Router(config-if)#
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#no clock rate
This command applies only to DCE interfaces
Router(config-if)#ip address 10.10.0.3 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up
Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#
```

Copy Paste

Time: 00:12:37 Power Cycle Devices Fast Forward Tim

Realtime

Destination	Type	Color	Time (sec)	Periodic	Num
-------------	------	-------	------------	----------	-----

192.168.1.0

Switch

PC-PT
PC0

Router1

Physical Config CLI

IOS Command Line Interface

```
Router(config-if)#exit
Router(config)#interface Serial2/0
Router(config-if)#no clock rate
This command applies only to DCE interfaces
Router(config-if)#ip address 10.10.0.3 255.0.0.0
Router(config-if)#no shutdown
Router(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Router(config-if)#
Router(config-if)#
Router(config-if)#
Router(config-if)#exit
Router(config)#
Router(config)#
Router(config)#
Router(config)#
Router(config)#router rip
Router(config-router)#network 192.168.2.0
Router(config-router)#network 10.0.0.0
Router(config-router)#
Router(config-router)#
Router(config-router)#exit
Router(config)#
```

Copy Paste

Time: 00:13:02 Power Cycle Devices Fast Forward Tim

Scenario 0

Realtime

Destination	Type	Color	Time (sec)	Periodic	Num
-------------	------	-------	------------	----------	-----