

Gateway

PhysicalConfigCLIAttributes

IOS Command Line Interface

Press RETURN to get started!

Router>enable
Router#config t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface s0/0
Router(config-if)#ip address 132.101.0.1 255.255.255.252
Router(config-if)#no shutdown

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

Router(config-if)#
Router(config-if)#exit
Router(config)#i
%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0, changed state to up
Router(config)#interface fa0/0
Router(config-if)#ip address 10.101.10.1 255.255.255.0
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)#exit
Router#
%SYS-5-CONFIG_I: Configured from console by console
Router#

Ctrl+F6 to exit CLI focus

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☐ Top

PC0

PhysicalConfigDesktopProgrammingAttributes

IP Configuration

IP Configuration

☐ DHCP

☒ Static

IP Address

10.101.10.2

Subnet Mask

255.255.255.0

Default Gateway

10.101.10.1

DNS Server

0.0.0.0

IPv6 Configuration

☐ DHCP

☐ Auto Config

☒ Static

IPv6 Address

/

Link Local Address

FE80::230:F2FF:FE16:1C65

IPv6 Gateway

IPv6 DNS Server

☐ Top

PC1

Physical Config Desktop Programming Attributes

IP Configuration X

IP Configuration

☐ DHCP ☒ Static

IP Address 10.101.10.3

Subnet Mask 255.255.255.0

Default Gateway 10.101.10.1

DNS Server 0.0.0.0

IPv6 Configuration

☐ DHCP ☐ Auto Config ☒ Static

IPv6 Address /

Link Local Address FE80::260:3EFF:FE35:1377

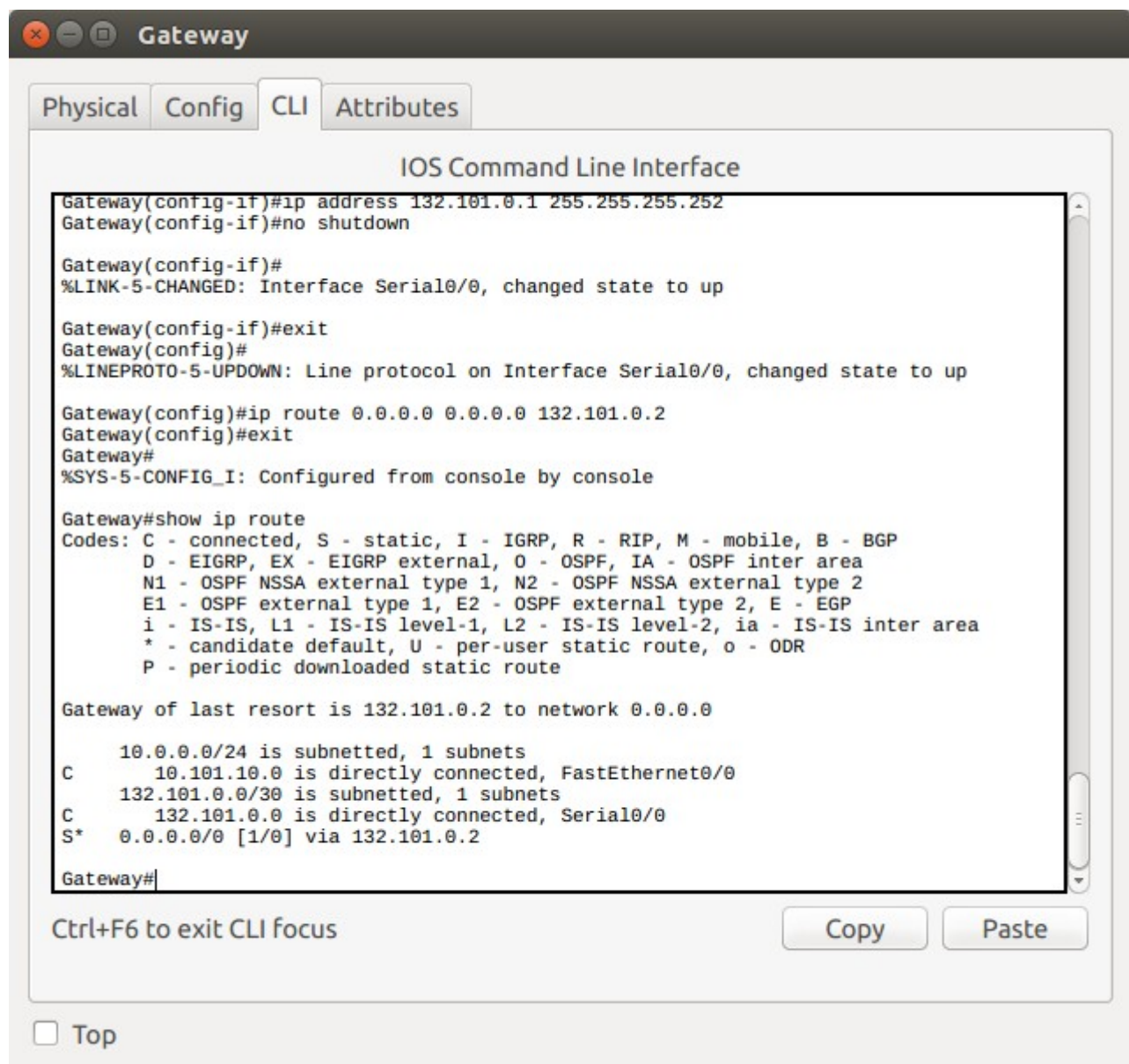
IPv6 Gateway

IPv6 DNS Server

☐ Top

Успешно ли выполнен эхо-запрос с узла 1? Да.

Успешно ли выполнен эхо-запрос с узла 1? Да.



ISP

PhysicalConfigCLIAttributes

IOS Command Line Interface

Gateway of last resort is not set

132.101.0.0/30 is subnetted, 1 subnets

C 132.101.0.0 is directly connected, Serial0/0

172.16.0.0/32 is subnetted, 1 subnets

C 172.16.1.26 is directly connected, Loopback1

ISP#config t

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

ISP(config)#ip route 10.101.10.0 255.255.255.0 132.101.0.1

ISP(config)#exit

ISP#

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

ISP#show 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

10.0.0.0/24 is subnetted, 1 subnets

S 10.101.10.0 [1/0] via 132.101.0.1

132.101.0.0/30 is subnetted, 1 subnets

C 132.101.0.0 is directly connected, Serial0/0

172.16.0.0/32 is subnetted, 1 subnets

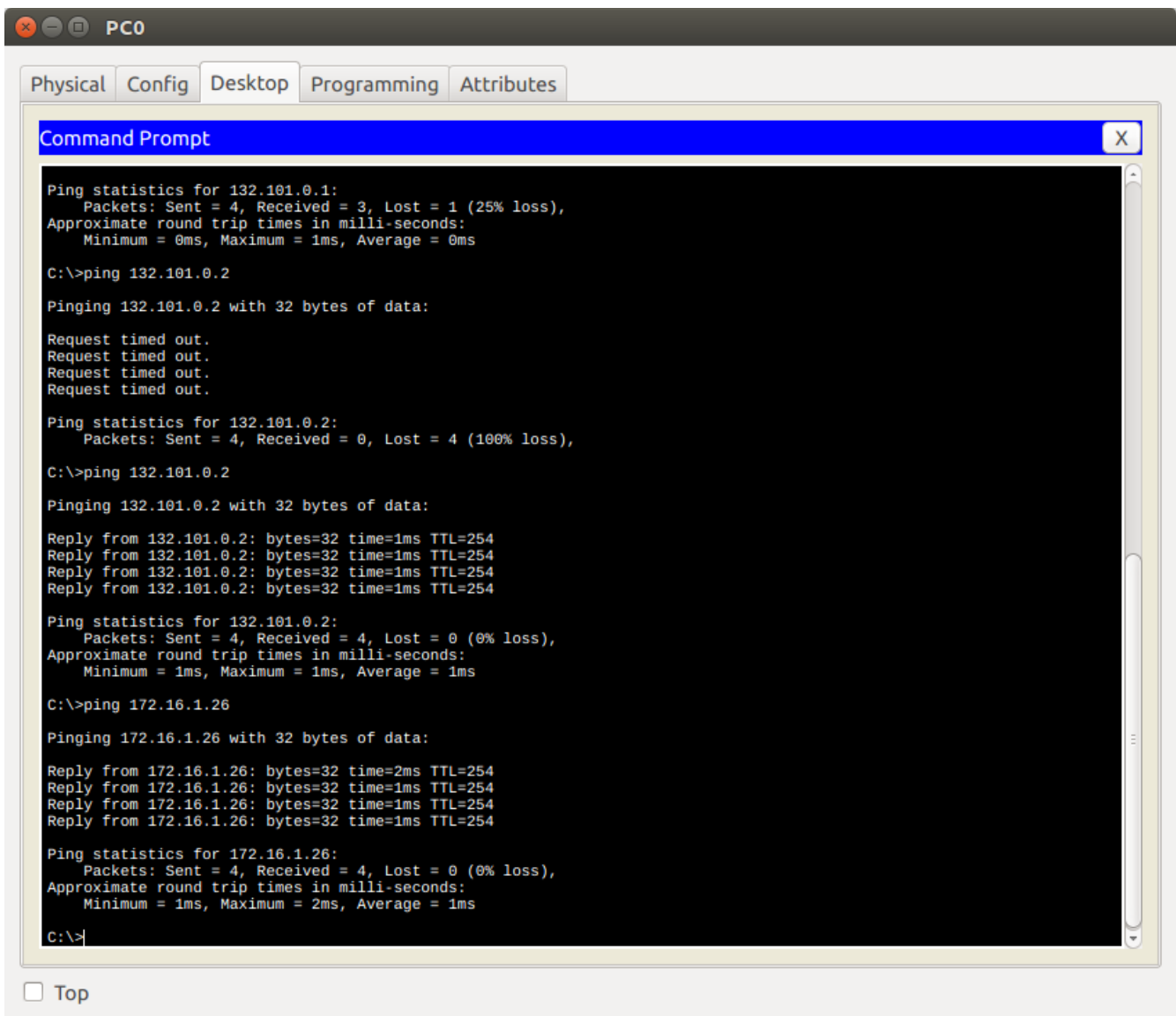
C 172.16.1.26 is directly connected, Loopback1

ISP#

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Gateway

PhysicalConfigCLIAttributes

IOS Command Line Interface

```
Gateway(config)#ip route 0.0.0.0 0.0.0.0 132.101.0.2
Gateway(config)#exit
Gateway#
%SYS-5-CONFIG_I: Configured from console by console

Gateway#show 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 132.101.0.2 to network 0.0.0.0

    10.0.0.0/24 is subnetted, 1 subnets
C      10.101.10.0 is directly connected, FastEthernet0/0
    132.101.0.0/30 is subnetted, 1 subnets
C      132.101.0.0 is directly connected, Serial0/0
S*    0.0.0.0/0 [1/0] via 132.101.0.2

Gateway#config t
Enter configuration commands, one per line. End with CNTL/Z.
Gateway(config)#ip nat pool public_access 132.101.0.1 132.101.0.1 netmask
255.255.255.252
Gateway(config)#access-list 1 permit 10.101.10.0 0.0.0.255
Gateway(config)#ip nat inside source list 1 pool public_access overload
Gateway(config)#interface fa0/0
Gateway(config-if)#ip nat inside
Gateway(config-if)#interface s0/0
Gateway(config-if)#ip nat outside
Gateway(config-if)#
```

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PhysicalConfigCLIAttributes

IOS Command Line Interface

```
Gateway(config)#interface fa0/0
Gateway(config-if)#ip nat inside
Gateway(config-if)#interface s0/0
Gateway(config-if)#ip nat outside
Gateway(config-if)#exit
Gateway(config)#exit
Gateway#
%SYS-5-CONFIG_I: Configured from console by console
show ip nat statistics
Total translations: 8 (0 static, 8 dynamic, 8 extended)
Outside Interfaces: Serial0/0
Inside Interfaces: FastEthernet0/0
Hits: 8 Misses: 8
Expired translations: 0
Dynamic mappings:
-- Inside Source
access-list 1 pool public_access refCount 8
pool public_access: netmask 255.255.255.252
start 132.101.0.1 end 132.101.0.1
type generic, total addresses 1 , allocated 1 (100%), misses 0
Gateway#show ip nat statistics
Total translations: 4 (0 static, 4 dynamic, 4 extended)
Outside Interfaces: Serial0/0
Inside Interfaces: FastEthernet0/0
Hits: 12 Misses: 12
Expired translations: 8
Dynamic mappings:
-- Inside Source
access-list 1 pool public_access refCount 4
pool public_access: netmask 255.255.255.252
start 132.101.0.1 end 132.101.0.1
type generic, total addresses 1 , allocated 1 (100%), misses 0
Gateway#
```

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```
show ip nat statistics
Total translations: 8 (0 static, 8 dynamic, 8 extended)
Outside Interfaces: Serial0/0
Inside Interfaces: FastEthernet0/0
Hits: 8 Misses: 8
Expired translations: 0
Dynamic mappings:
-- Inside Source
access-list 1 pool public_access refCount 8
pool public_access: netmask 255.255.255.252
start 132.101.0.1 end 132.101.0.1
type generic, total addresses 1, allocated 1 (100%), misses 0
Gateway#show ip nat statistics
Total translations: 4 (0 static, 4 dynamic, 4 extended)
Outside Interfaces: Serial0/0
Inside Interfaces: FastEthernet0/0
Hits: 12 Misses: 12
Expired translations: 8
Dynamic mappings:
-- Inside Source
access-list 1 pool public_access refCount 4
pool public_access: netmask 255.255.255.252
start 132.101.0.1 end 132.101.0.1
type generic, total addresses 1, allocated 1 (100%), misses 0
Gateway#show ip nat translations
Gateway#show ip nat translations
Pro Inside global Inside local Outside local Outside global
icmp 132.101.0.1:10 10.101.10.3:10 172.16.1.26:10 172.16.1.26:10
icmp 132.101.0.1:11 10.101.10.3:11 172.16.1.26:11 172.16.1.26:11
icmp 132.101.0.1:12 10.101.10.3:12 172.16.1.26:12 172.16.1.26:12
icmp 132.101.0.1:9 10.101.10.3:9 172.16.1.26:9 172.16.1.26:9
Gateway#
```

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