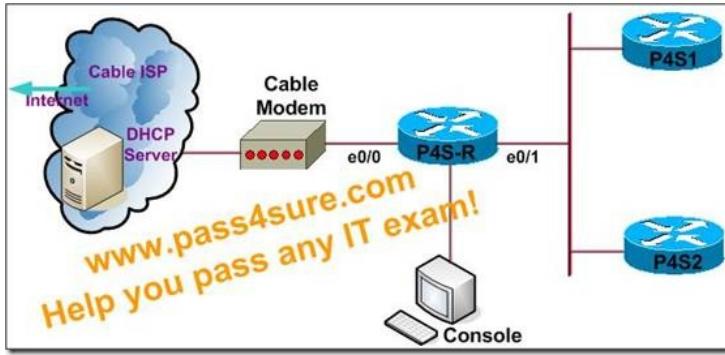


CCNP ISCW(642-825) Lab - PPPoE

Pass4sure is a small export company .This firm has an existing enterprise network that is made up exclusively of routers that are using EIGRP as the IGP. Its network is up and operating normally. As part of its network expansion, Pass4sure has decided to connect to the internet by a broadband cable ISP. Your task is to enable this connection by use of the information below.

Connection Encapsulation: PPP Connection Type: PPPoE client Connection Authentication: None Connection MTU: 1492 bytes Address: Dynamically assigned by the ISP Outbound Interface: E0/0 You will know that the connection has been successfully enabled when you can ping the simulated Internet address of 172.16.1.1 Note: Routing to the ISP: Manually configured default route



P4S-R# show ip route

```
....  
Gateway of last resort is not set  
192.168.1.0/27 is subnetted, 7 subnets  
C    192.168.1.0 is directly connected, Ethernet0/1  
D    192.168.1.32 [90/307200] via 192.168.1.2, 00:02:16,Ethernet0/1  
D    192.168.1.64 [90/307200] via 192.168.1.2, 00:02:17,Ethernet0/1  
D    192.168.1.96 [90/307200] via 192.168.1.2, 00:02:17,Ethernet0/1  
D    192.168.1.128 [90/307200] via 192.168.1.3, 00:02:17,Ethernet0/1  
D    192.168.1.192 [90/307200] via 192.168.1.3, 00:02:17,Ethernet0/1  
D    192.168.1.224 [90/307200] via 192.168.1.3, 00:02:17,Ethernet0/1
```

P4S-R# show run

```
....  
no service password-encryption
```

```
!  
hostname P4S-R
```

```
!  
boot-start-marker
```

```
boot-end-marker
```

```
!
```

```
no aaa new-model
```

```
resource policy
```

```
clock timezone PST 0
```

```
ip subnet-zero
```

```
no ip dhcp use vrf connected
```

```
!
```

```
interface Ethernet0/0
```

```
description link to cable modem
```

```
no ip address
```

```
shutdown
```

```
!
```

```
interface Ethernet0/1
```

```
description link to corporate nework
```

```
ip address 192.168.1.1 255.255.255.224
```

```
!
```

```
interface Ethernet0/2
```

```
no ip address
```

```
!
```

```
interface Ethernet0/3
```

```
no ip address
```

```
shutdown
```

```
!
```

```
router eigrp 1
```

```
network 192.168.1.0
```

```
auto-summary
```

```
!
```

```
line con 0
```

```
line vty 0 15
```

```
end
```

Solutions:

dial-pool-number 1

P4S-R(config-if)#encapsulation ppp

P4S-R(config-if)#ip mtu 1492

0.0.0.0 0.0.0.0 dialer1 <---- ip routing is default static to internet provider

given in the scenario:

P4S-R(config)#int e0/0

P4S-R(config-if)#no sh

P4S-R(config-if)#ip address negotiated

P4S-R(config-if)#no shut

0.0.0.0 0.0.0.0 dialer1 <---- if routing is default static to internet provider

P4S-R# ping 172.16.1.1

P4S-R(config-if)#pppoe enable

P4S-R(config-if)#exit

P4S-R(config-if)#ip address negotiated

P4S-R(config-if)#no shut

0.0.0.0 0.0.0.0 dialer1 <---- ip routing is default static to internet provider

P4S-R# ping 172.16.1.1

!!!! <---- if ping successful, you have completed this lab!

P4S-R(config-if)#exit

P4S-R(config-if)#ip route

0.0.0.0 0.0.0.0 dialer1 <---- ip routing is default static to internet provider

P4S-R# ping 172.16.1.1

!!!! <---- if ping successful, you have completed this lab!

P4S-R(config-if)#pppoe-client

P4S-R(config)#int dialer1

P4S-R(config-if)#dialer pool 1

P4S-R(config-if)#ip route

0.0.0.0 0.0.0.0 dialer1 <---- ip routing is default static to internet provider

P4S-R# ping 172.16.1.1

!!!! <---- if ping successful, you have completed this lab!

That is all, hope to helpful for you. Best Luck for ur ISCW 642-825 Exam. If you need the complete pass4sure test questions for 642-825 Exam, you can visit [Latest Pass4sure 642-825](#), maybe it helpful for ur exam!