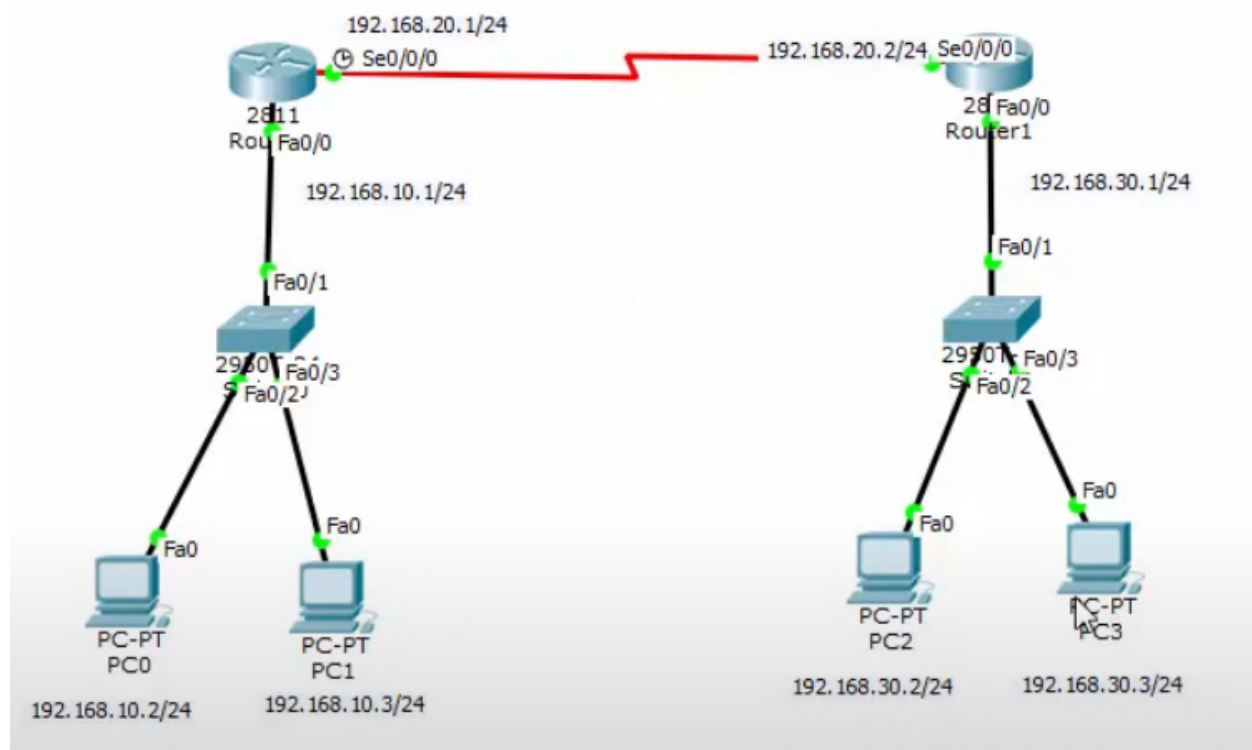


How to configure EIGRP in Cisco Packet Tracer?

EIGRP stands for Enhanced Interior Gateway Routing Protocol. It is an Advanced Research vector routing protocol that is used on computer networks for automatically making routing decisions and configurations. The age gap is dynamic routing protocol which routers automatically share route information. This is just the work of network manager or administrator who does not have to configure changes to routing table manually. GDP is distance vector and link state routing protocol that uses diffusion updates algorithm dual. To improve the efficiency of the protocol and to help prevent calculations error. When attempting to determine the best path to demote network.

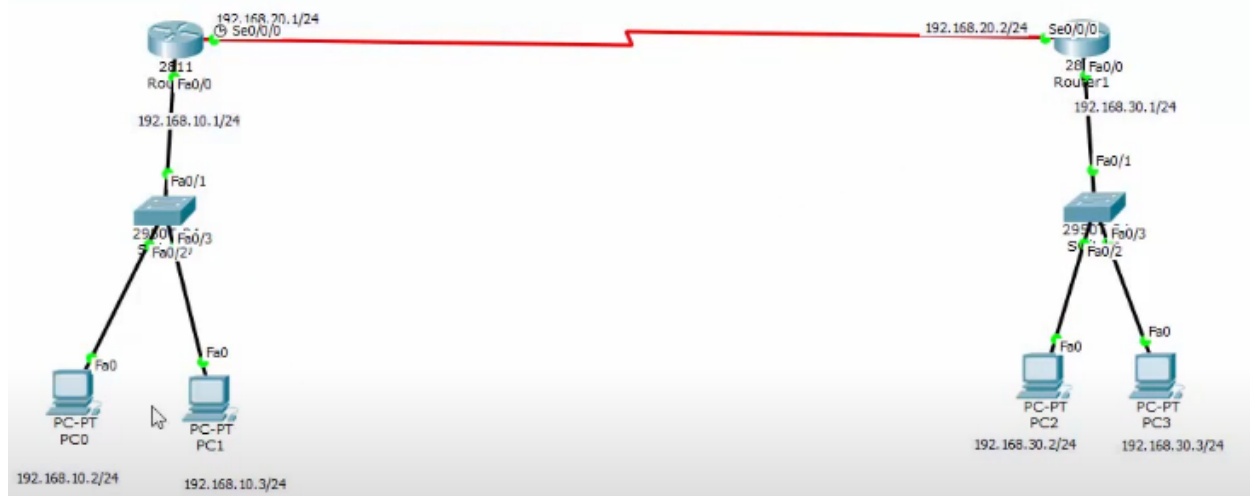


1. Take two 2811 routers.
 2. Take two 2950-24 switches. Take four PCs.
 3. Add W1C1T. From physical into routers configuration and switch on the port.
 4. Router to router is connected with serial cable, so connect serial 0/0 to serial 0/0.
 5. Router to switch is connected to Fast Ethernet.
 6. Open CLI command of router.
- First type enable.
Configure terminal.
Interface Fast Ethernet 0/0.
IP address 192.168.10.1 255.255.255.0
No, shut down.
Exit.
Interface serial 0/0/0.
IP address 192.168.20.1 255.255.255.0

Clock rate 128000.
No shutdown.
Exit.
Exit.
Copy running-config startup-config.
7 dot.Open second router CLI command.
Enable.
Configure terminal.
Interface Fast Ethernet 0/0.
IP address 192.168.30.1 255.255.255.0
No, shut down.
Exit.
Interface serial 0/0/0.
IP address.192.168.20.2. 255.255.255.0.
No shutdown.
Exit.
Exit.
Copy running-config startup-config.
8.Open CLI command in router zero once again.
Configure terminal.
Router Eigrp 10.
Network.192.168.10.0 255.255.255.0
Network.192.168.20.0 255.255.255.0
^Z
Copy running-config startup-config.
9.Open.See you like command for router one.
Configure terminal.
Router Eigrp 10.
Network.192.168.20.0 255.255.255.0
Network.192.168.30.0 255.255.255.0
^Z
Copy running-config startup-config.
Then.IP configuration.PC0.192.168.10.2.And default gateway.10.1.

How to configure OSPF configuration in Packet Tracer?

OSPF stands for Open Shortest Path First. It is a routing protocol of Internet Protocol network that uses link state routing algorithm and operates within a single autonomous system. OSPF can handle variable length, subnet masks, route summarization, authentication of routing updates and more.



1. take 2 2811 Routers.
2. Take two .2950.T.Switches.
3. Take four pcs
4. add W1C1T. From physical into routers configuration and switch on the port.
5. Router to router is connected with serial cable, so connect serial 00 to serial 00.
5. Router to switch is connected to. Fast Ethernet.

6. Open cli in router 0

First type enable.

Configure terminal.

Interface Fast Ethernet 0/0.

IP address 192.168.10.1 255.255.255.0

No, shut down.

Exit.

Interface serial 0/0/0.

IP address 192.168.20.1 255.255.255.0

Clock rate 72000.

No shutdown.

Exit.

Router OSPF one.

Network 192.168.10.0 0.0.0.255. Area 0.

Network 192.168.20.0 0.0.0.255. Area 0.

^Z

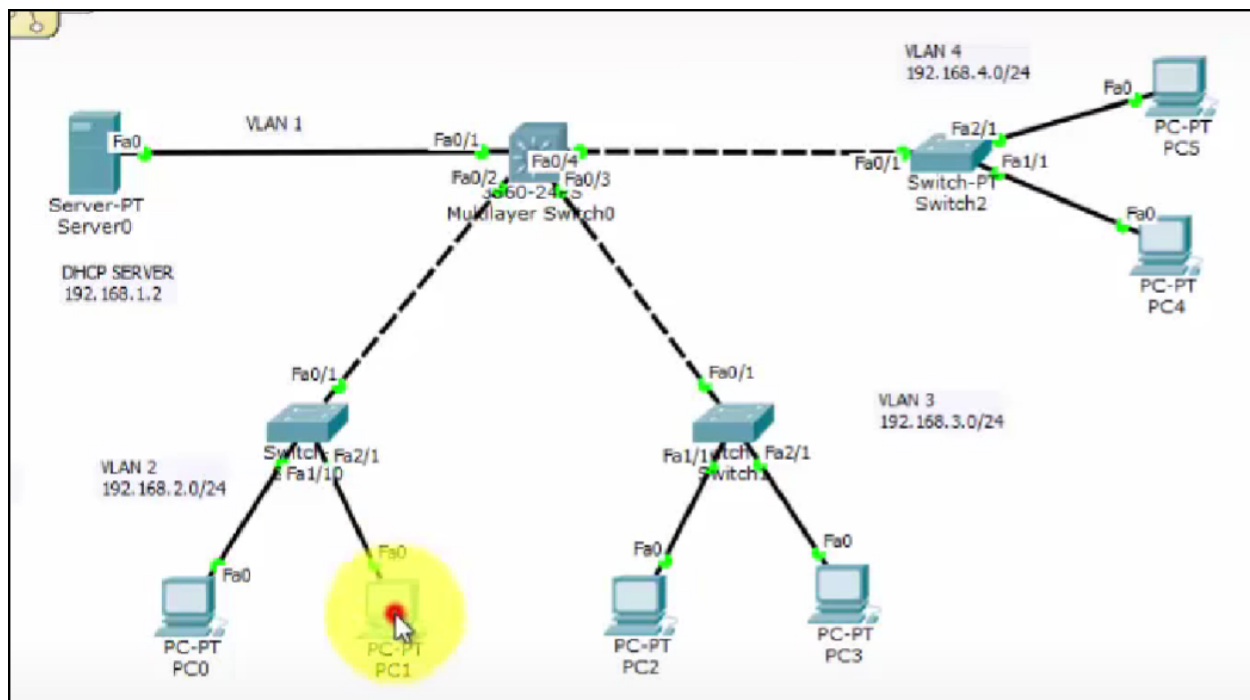
Copy running-config startup-config.

7. Open second router CLI command.

Enable.
 Configure terminal.
 Interface serial.0/0/0.
 IP address.192.168.20.2.255.255.255.0.
 No, shut down.
 Interface Fast Ethernet.0/0.
 IP address. 192.168.30.1.255.255.255.0.
 No, shut down.
 Exit.
 Router OSPF one.
 Network.192.168.30.0. 0..0 dot 0.255. Area 0.
 Network.192.168.20.0. 0.0.0.255. Area 0.
 ^Z
 Copy running-config startup-config.
 Assign IP addresses and default gateway.To each pc

Configure DHCP for many Vlans into Cisco Packet Tracer.

The Dynamic Host Configuration Protocol is a network management protocol used on Internet Protocol networks for automatically assigning IP addresses and other communication parameter to the devices connected to the network. Using client server architecture. These IP addresses are assigned from a pool of IP addresses.That has been previously assigned to the DHCP server.



- 1.Connect one server PT.One multilayer switch.3 switches.And six piece computers.
 - 2.Assign different V lens to different sections.
 - 3.Open multilayer switch CLI command.
- Enable.

Configure terminal.

Lan .2

VLAN.3.

BLAN 4.

Int. VLAN. 1.

IP address.192.168.1.1. 255.255.255.0.

No, shut down.

Int vlan 2

IP address 192.168.2.1. 255.255.255.0.

Exit.

Int. VLAN.3.

Ip address.192.168.3.1. 255.255.255.0.

Int vlan 4

IP address.192.168.4.1. 255.255.255.0.

exit

Open IP configuration in.Server.

Under the Static tab.IP address.192.168.1.2.

Default gateway.192.168.1.1.

DNS server.8.8.8.8

Under Services tab.Choose DHCP.

Enter.The pool name VL 2.

Gateway 192.168.2.1. and similarly for all others

For the server pool pool name.Changed default gateway to 192.168.1.1.And DNS server has 8.8.8.8.

Open CLI command in multilayer switch again.

```
Switch(config)#
Switch(config)#
Switch(config)#int fa0/3
Switch(config-if)#switch
Switch(config-if)#switchport trunk en
Switch(config-if)#switchport trunk encapsulation dot
Switch(config-if)#switchport trunk encapsulation dot1q
Switch(config-if)#switch
Switch(config-if)#switchport mode trunk
Switch(config-if)#switchport mode trunk
```

Int fa0/3

Int fa0/4

Exit

Open switch CLI command.

Enable.

Configure terminal.

VLAN.2.

VXLAN 3.VLAN 4.

Ex.
Int. fa1/1.
Switch
Switchport mode access.
Switch.
Switchport access VLAN 2.
Ex.
Int. FA.2/1.
Switchport mode access.
Switch.
Switchport access VLAN 2.
Ex.
Open the other.Switch CLI command.
Enable.
Configure terminal.
VLAN.2.
VXLAN 3.VLAN 4.
Ex.
Int. fa1/1.
Switch
Switchport mode access.
Switch.
Switchport access VLAN 3.
Ex.
Int. FA.2/1.
Switchport mode access.
Switch.
Switchport access VLAN 3.
^Z
Open the other CLI command of switch.
Enable.
Configure terminal.
switch
VLAN.2.
VXLAN 3.VLAN 4.
Ex.
Int. fa1/1.
Switch
Switchport mode access.
Switch.
Switchport access VLAN 4 .
Ex.
Int. FA.2/1.
Switchport mode access.

Switch.

Switchport access VLAN 4.

Ex.

Open CLI command of multilayer switch.

Configure terminal.

Int vlan 1

Ip help

IP helper-address 192.168.1.2

Int vlan 2

Ip help

IP helper-address 192.168.1.2

Int vlan 3

Ip help

IP helper-address 192.168.1.2

Int vlan 4

Ip help

IP helper-address 192.168.1.2

Ex

Ip routing

^Z

Wr

check