EIGRP on Packet Tracer

4:11 AM Packet Tracer Tutorial 6 comments

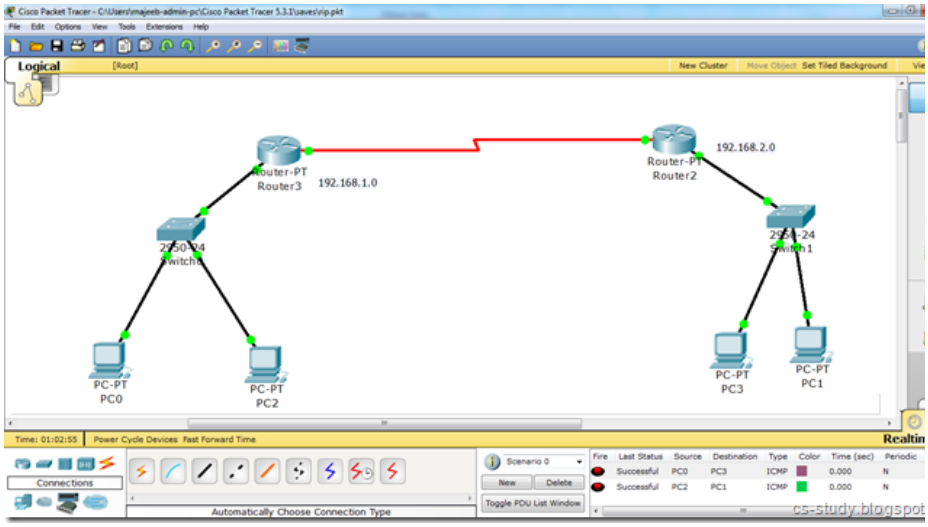
Hi everyone, today we are going to apply Enhanced Interior Gate Way Routing Protocol (EIGRP) on packet tracer. Here are the basic set of commands that we can apply on router CLI mode in order to apply EIGRP on router.

`Router(config)#router eigrp 100`	Turns on the EIGRP process. 100 is the autonomous system number, which can be a number between 1 and 65,535.
	All routers in the same autonomous system must use the same autonomous system number.
`Router(config-router)#network 10.0.0.0`	Specifies which network to advertise in EIGRP.
`Router(config-if)#bandwidth x`	Sets the bandwidth of this interface to *x* kilobits to allow EIGRP to make a better metric calculation.
	TIP: The **bandwidth** command is used for metric calculations only. It does not change interface performance.
`Router(config-router)#no network 10.0.0.0`	Removes the network from the EIGRP process.

Also, look at some additional commands.

`Router#show ip eigrp neighbors`	Displays the neighbor table.
`Router#show ip eigrp neighbors detail`	Displays a detailed neighbor table.
	TIP: The **show ip eigrp neighbors detail** command verifies whether a neighbor is configured as a stub router.
`Router#show ip eigrp interfaces`	Shows information for each interface.
`Router#show ip eigrp interfaces serial 0/0`	Shows information for a specific interface.
`Router#show ip eigrp interfaces 100`	Shows information for interfaces running process 100.
`Router#show ip eigrp topology`	Displays the topology table.
	TIP: The **show ip eigrp topology** command shows you where your feasible successors are.
`Router#show ip eigrp traffic`	Shows the number and type of packets sent and received.
`Router#show ip route eigrp`	Shows a routing table with only EIGRP entries.

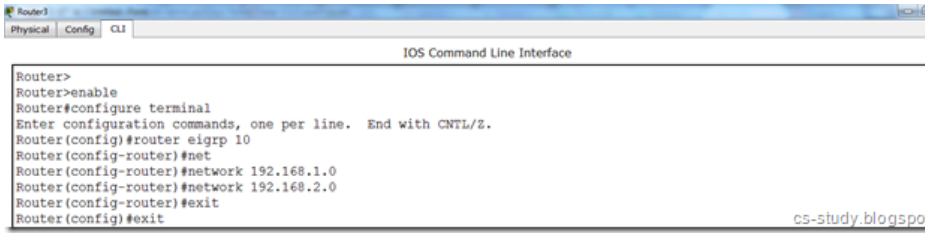
Now, we are going to apply EIGRP on the following topology.



Now, after successfully applying IP addresses like in this topology, we will apply following commands.

```
Router(config)#router eigrp 10
Router(config-router)#network 192.168.1.0
Router(config-router)#network 192.168.2.0
Router(config-router)#exit
```

Apply the above set of commands on both routers like this.



And eigrp protocol has been applied on this topology. Notice the following command.

router eigrp 10

This number '10' is the process ID.

Technorati Tags: eigrp protocol on Packet Tracer,Packet tracer tutorial,Packet tracer networking,networking on Packet tracer,networking topology on Packet tracer,Packet tracer activity,eigrp on PT,ehanced interior gateway protocol on Packet Tracer,education,networks,networking

Reactions: funny (0) interesting (0) cool (0)

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6 comments:

Anonymous March 14, 2014 at 9:34 PM

what does process id mean?

Reply

Replies

Usman Ashraf March 14, 2014 at 10:40 PM

Process id differentiate between different eigrp instances. Means u can have multiple instances in one router . It also provides security . One process id

cannot communicate with other process id

Anonymous March 15, 2014 at 3:14 AM

thank you sir

Reply

mayur April 8, 2015 at 11:46 PM

hi sir,can u pls tell me step by step procedure to configure EIGRP protocol?

Reply

Replies

Usman Ashraf April 9, 2015 at 4:00 AM

Follow this tutorial for all the detailed configurations.

http://cs-study.blogspot.com/2012/10/rip-on-packet-tracer.html

And instead of applying routing protocol RIP , Apply EIGRP . Hope that helps.

Reply

Latha Karthigaa Murugesan September 17, 2015 at 4:57 PM

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