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EIGRP on Packet Tracer

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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.

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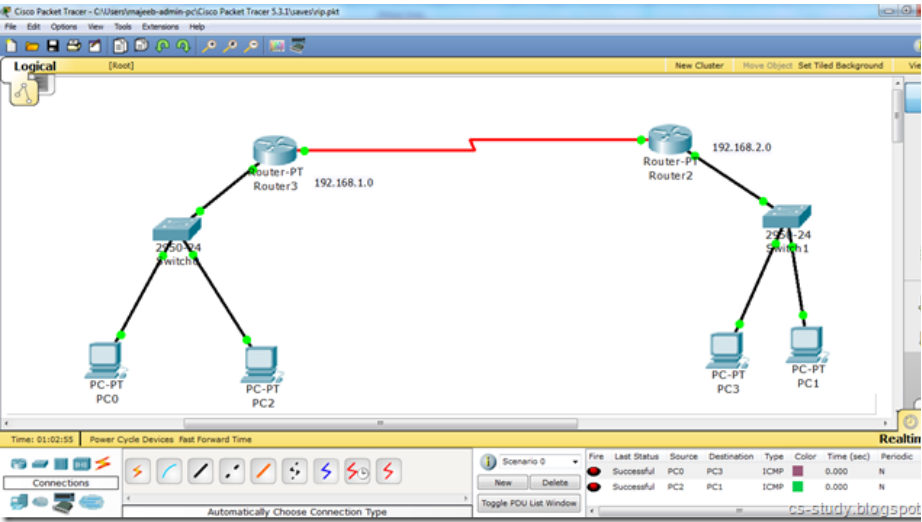
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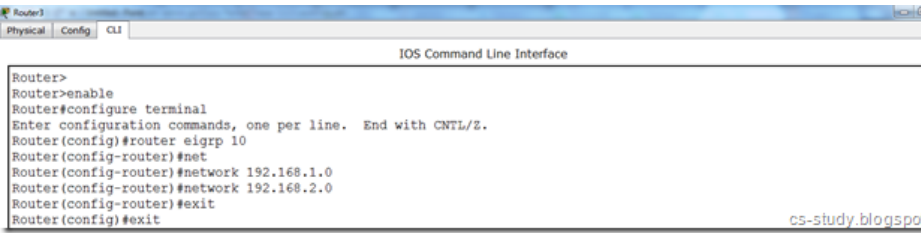
Now, we are going to apply EIGRP on the following topology.



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.

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Anonymous [March 14, 2014 at 9:34 PM](#)
what does process id mean?
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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

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mayur [April 8, 2015 at 11:46 PM](#)

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

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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.

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Latha Karthigaa Murugesan [September 17, 2015 at 4:57 PM](#)

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