



World University of Bangladesh

Course Title : Computer Networks Lab
Code : CSE 1006

Assignment

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Question 1. Analysis and Comparative Study for Developing Computer Network in Terms of Routing Protocols Having IPv6 Network Using Cisco Packet Tracer.

Must be following this step. which is given below:

- a) Steps/Processes
- b) Methodology (Hardware/Software or Both)
- c) Result

Answer.

The routing protocol means how routers communicate with another router. They transfer information between each other which let them decide that which next node they would select.

Basically they are two types of routing:

- I. Static
- II. Dynamic

The dynamic section contains the following:

- I. RIP
- II. OSPF
- III. ISIS
- IV. EIGRP

I. RIP : The full meaning of it is "Routing information protocol". This is a distance vector routing protocol. This is a distance vector routing protocol that uses router hop count as the metric. It is a classful routing protocol that does not support VLSM or CIDR. It contains three type of timers. It has several stability features.

Serial 0/0.221:2001:ABAD:BEEF:1221::2/64
Serial /0.223:2001:ABAD:BEEF:2332::2/64
loopback 0:2001:ABAD:BEEF:2002:1/64

R2

R3

R1

Se 0/0 322:2001:ABAD:BEEF:2332::3/64
loopback 0:2001:ABAD:BEEF:3003::1/64

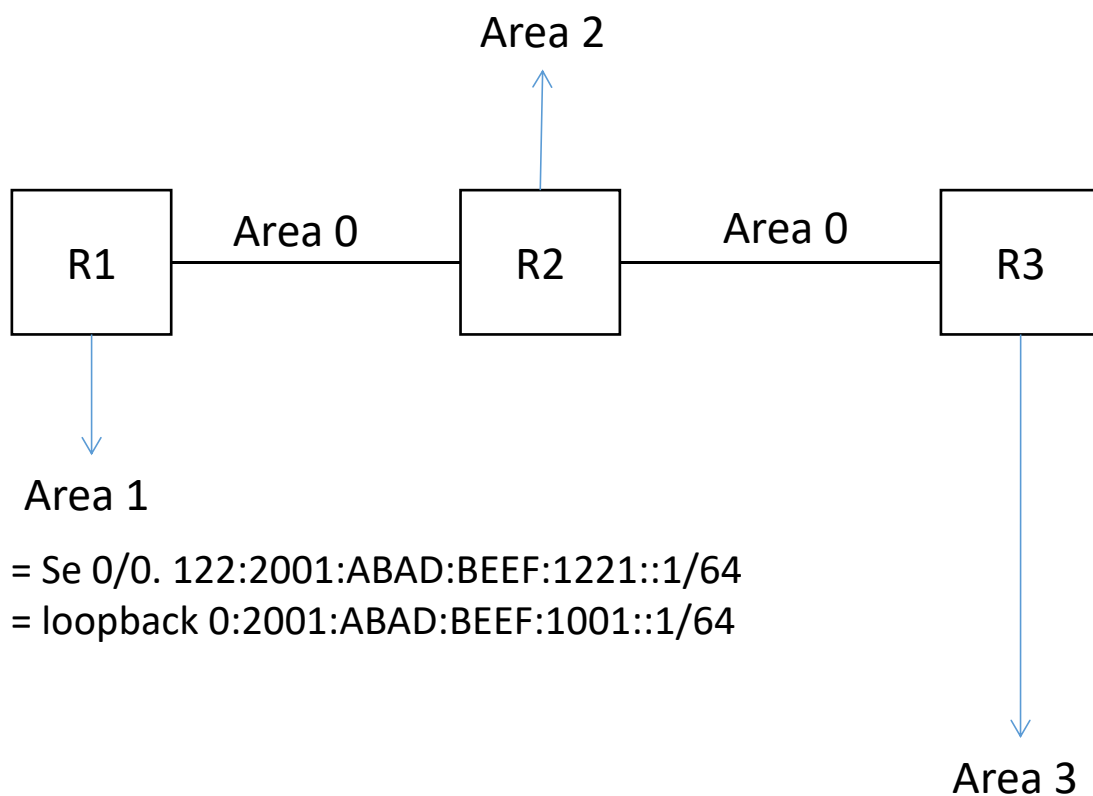
Se 0/0. 122:2001:ABAD:BEEF:1221::1/64
loopback 0:2001:ABAD:BEEF:1001::1/64

II. OSPF : The full meaning of OSPF is "Open shortest path first". The ospf is a link state routing protocol that use the shortest path first algorithm to put data in the table.

Area 0 = Serial 0/0.221:2001:ABAD:BEEF:1221::2/64

Area 0 = Serial /0.223:2001:ABAD:BEEF:2332::2/64

Area 2 = loopback 0:2001:ABAD:BEEF:2002:1/64



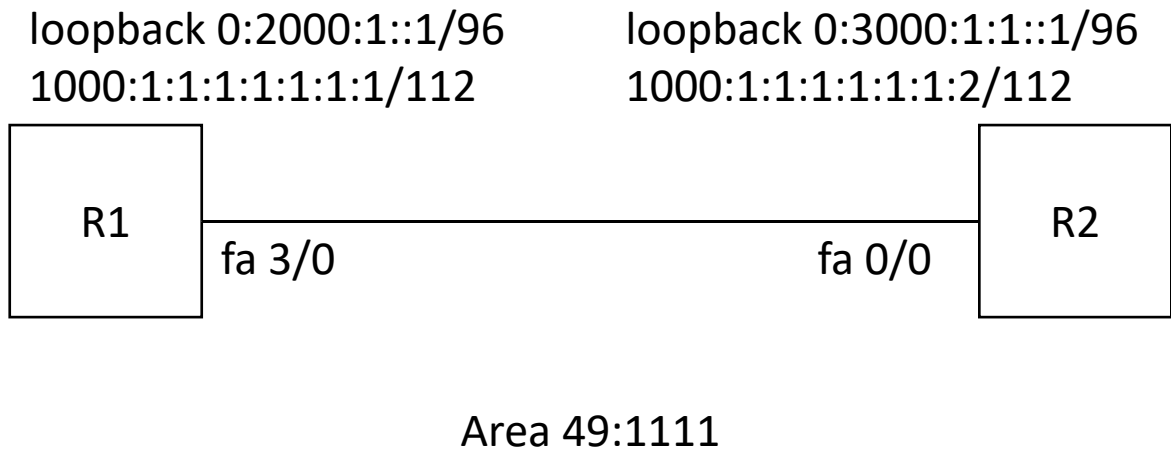
Area 0 = Se 0/0. 122:2001:ABAD:BEEF:1221::1/64

Area 1 = loopback 0:2001:ABAD:BEEF:1001::1/64

Area 0 = Se 0/0 322:2001:ABAD:BEEF:2332::3/64

Area 3 = loopback 0:2001:ABAD:BEEF:3003::1/64

III. ISIS : The full form of ISIS is "Intermediate system to intermediate system". This is a kind of routing protocol designed to transfer information easily inside a computer network.



IV. EIGRP : The full meaning of EIGRP is "Enhanced interior gateway routing protocol". This is some kind of advanced routing protocol that is used in the computer network for automating routing decisions as well configuration.

