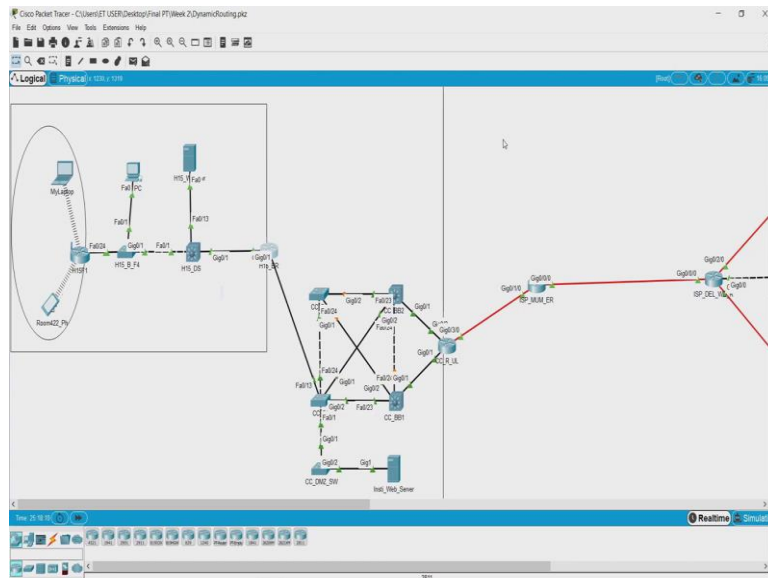**Demystifying Networking**
Prof. Sridhar Iyer
Department of Computer Science and Engineering
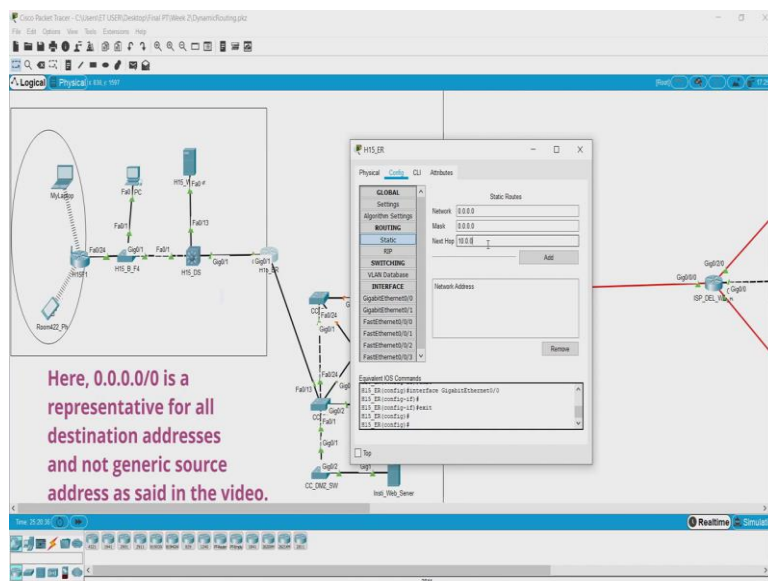**Indian Institute of Technology, Bombay**

Lecture – 43
How to Add Static Route in a Router? (CPT)

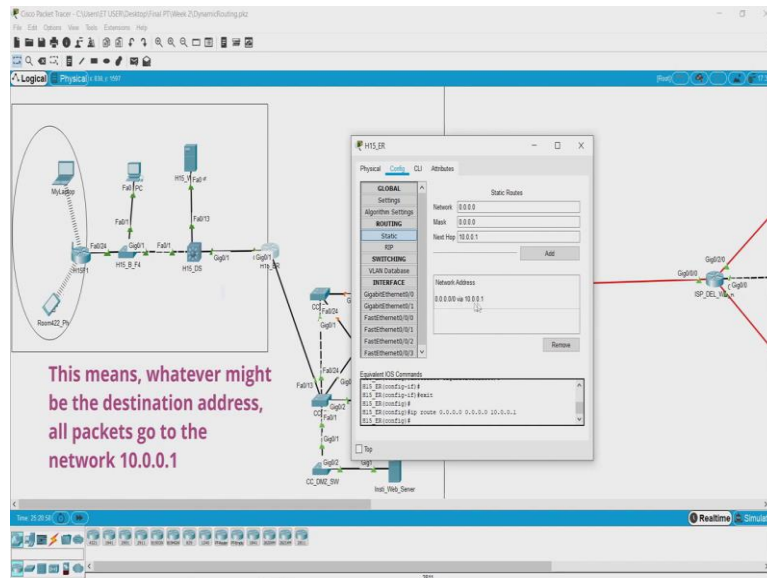(Refer Slide Time: 00:01)

Now, let us see how to add Static Routes in a Router.

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Now, I know that this interface is, this interface is 'GigabitEthernet0/0', which has the IP address of the series, '10.10'. And since I want all the traffic generated from these network to be forwarded on that port, what I am doing is, I am specifying that 0, this is a representative for all the IP addresses, that is, network traffic generated from all the IP addresses and this is the, sorry, this is the generic mask. Now, this should go to the 10 series network.
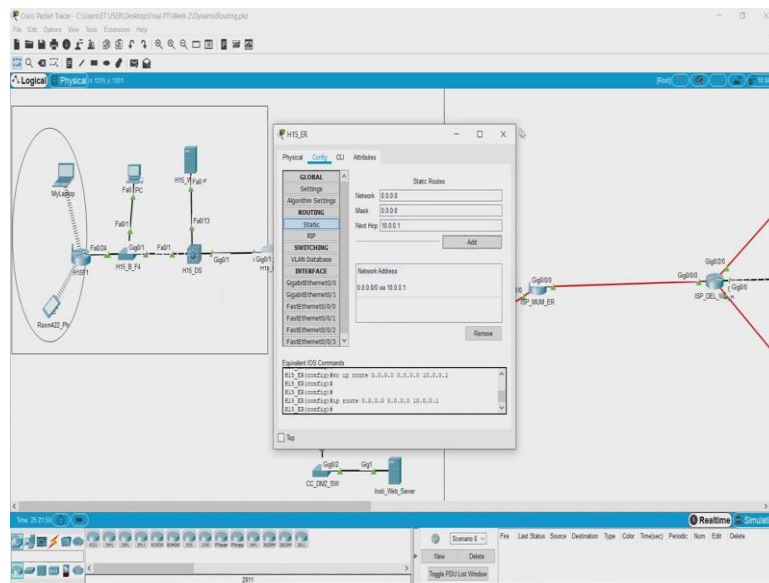
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So, I specified the next hop as 10 series network, the network address of that and then I am going to add. Now we have a static route called '0.0.0.0/0' via this port. It has been added.

Without this static route, if I try to send a packet from this to, say this, it would fail as it can be seen here from the status. Now I will add the route.

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And now let me try to send a packet and see that it is successful, because now there is a route between these two devices.

We just saw how switches are sending packets from source to the nearest routers and how routers direct those packets to its destination, to the router nearest to its destination.

And to do so, we saw that each router has something called the routing table and using the routing table, the router is able to determine on which interface the packet is supposed to leave. Now this is the correct time for a quiz.