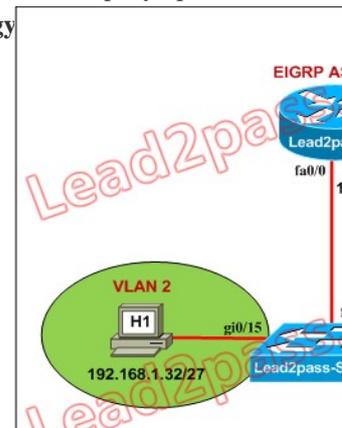


CCNP SWITCH(642-813) Lab – MLS + EIGRP(New)

[Scenario] You have been tasked with configuring multilayer SwitchC, which has a partial configuration and has been attached to RouterC as shown in the topology diagram. **You need to configure SwitchC so that Hosts H1 and H2 can successfully ping the server S1. Also SwitchC needs to be able to ping server S1.** Due to administrative restrictions and requirements you should not add/delete vlans or create trunk links. Company policies forbid the use of static or default routing. All routes must be learned via EIGRP 65010 routing protocol. You do not have access to RouterC; assume that RouterC is correctly configured. The following subnets are available to implement this solution. Routed interfaces MUST use the lowest available IP address on a subnet. 172.16.1.0/24, 192.168.3.32/27, 192.168.3.64/27 and 192.168.3.96/27. Host H1 and H2 are configured with the correct IP address and Default Gateway. SwitchC uses **cisco** as the enable password. The current VLAN configuration on SwitchC should not be **deleted** or **modified**. Routing must **only** be enabled for the specific subnet shown in the diagram. **Note:** Due to administrative restrictions and requirements you should not add/delete vlans, change vlan port assignments or create trunk links. Company policies forbid the use of static or default routing. All routes must be learned via the eigrp routing protocol. **[Topology]**



[Solution 1. Find the following details from question] AS no = 65010 VLAN2 IP = 192.168.3.33 255.255.255.224 VLAN3 IP = 192.168.3.65 255.255.255.224 gig 0/1 IP = 172.16.1.1 255.255.255.0 [It is instructed to use the lowest IP of the given subnets for the routed interfaces and the SVIs] Note that we can not do modify any vlan configurations in the switch/PCs. All are configured with the correct names and IPs. We need to implement following tasks: - Configure all 3 routed interfaces. - Enable IP routing

and configure EIGRP in the switch. **2. Configurations on MultiLayer Switch [MLS]:** int gig 0/1 no shutdown ip address 172.16.1.1 255.255.255.0 no shutdown int vlan 2 ip address 192.168.3.33 255.255.255.224 no shutdown int vlan 3 ip address 192.168.3.65 255.255.255.224 no shutdown ip routing router eigrp 65010 network 192.168.3.32 0.0.0.31 network 192.168.3.64 0.0.0.31 network 172.16.1.0 0.0.0.255 no auto-summary copy running-config startup-config **3. Verification:** We should be able to ping from MLS to the gateway called ?Server S1? [208.77.188.166] Note: The copy run start is not work in may LABS. It is not an issue for the examination. Just do it.