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**Applied Computing**

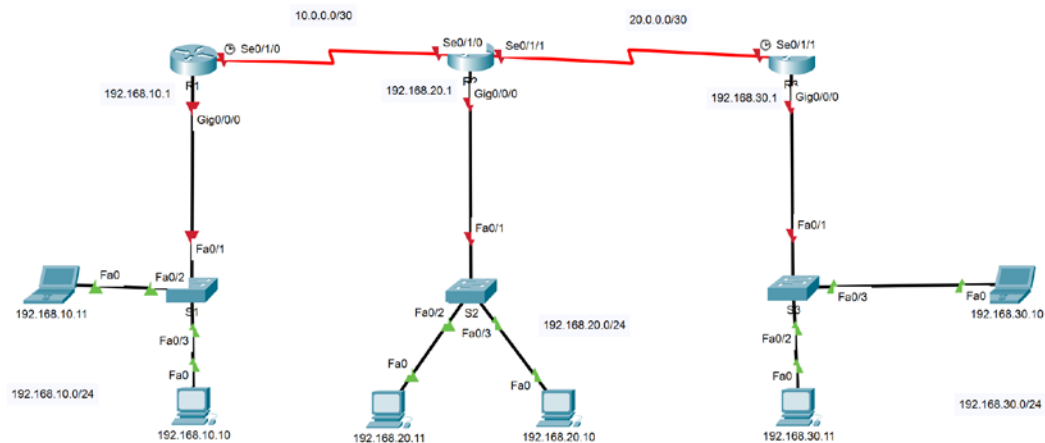
**Wales Institute of Science and Art (WISA)**

## **Advanced Networking (ACCA5024)**

### **Lab 8: Static Routing**

**Cisco | Networking Academy®**  
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Design the topology and execute basic configuration as stated below



Refer to the above topology for addressing information.

### Tasks:

#### 1. Set Up the Topology and Initialize Devices

#### 2. Configure Devices and Verify Connectivity

*Assign static IPv4 information to the PC interfaces.*

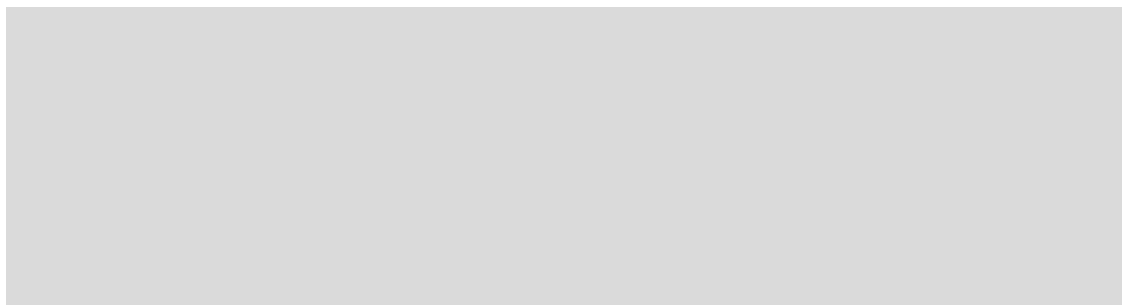
*Configure basic router settings. (Refer to our previous labs. Basic Configurations includes hostname, passwords, line configurations, device security, domain lookups, banners)*

*Configuring your network with complete information is highly recommended.*

*Verify network connectivity.*

#### 3. Configure Static, Default and Loopback addresses for all the routers

*Configure IPv4 Address for all the router interfaces.*



*Configure loopback address (Lo1) as 50.50.50.50/32 at Router R2.*

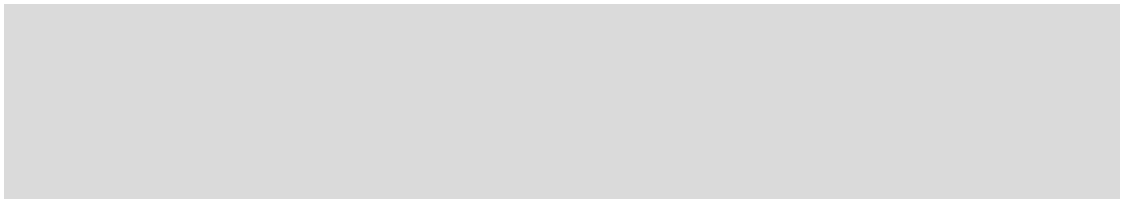
*On R1, R2 and R3 configure IPv4 static route to connect other networks. Do not include Lo1 network.*

*Configure default static route to reach Lo1 network using next-hop ip address at R1*

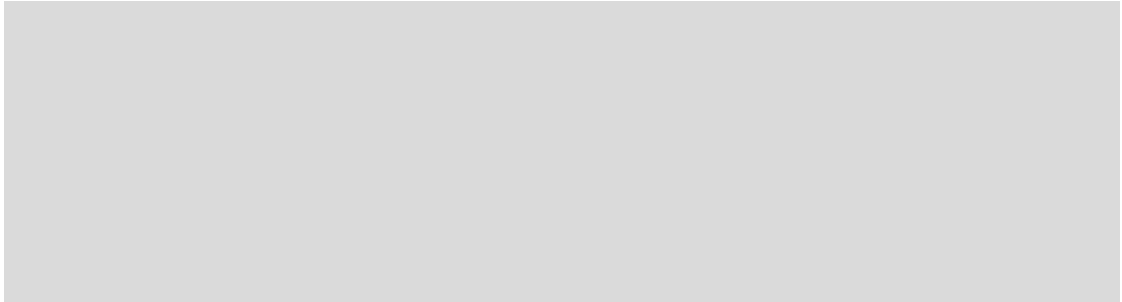
*Configure default static route to reach Lo1 network using exit interface at R3*

*Interpret the output from the routing table.*

*Verify the status of the interfaces.*



*Verify the status of the network connectivity.*



*Record your routers running configurations here!!!*

*Do it separately for R1, R2 and R3*