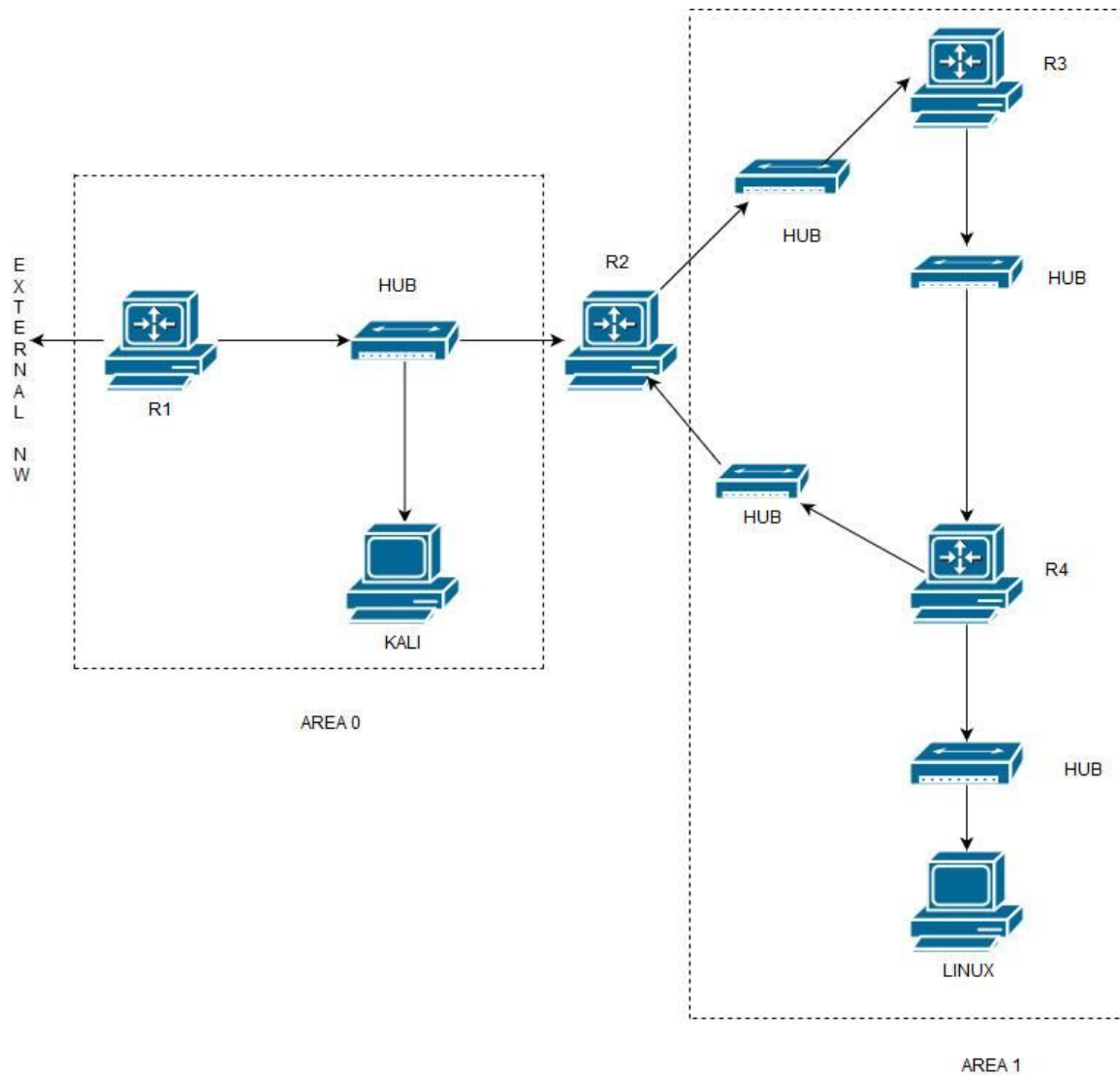# IP SUBNETTING AND STATIC ROUTING

In this lab we build the entire network as shown in the diagram below.

Similar to the subnetting lab completed earlier in the course, an IP block in the range 10.10.10.0 to 10.10.10.255 is given. Make the subnets in an efficient manner with no wastage of IP's.

Once the subnets are properly configured, static routes should be mentioned in the interfaces file so that R4 should be able to communicate with the Kali machine (Try the **ping** command).

Note: Make sure to avoid networking loops by making use of metrics when you add routes. All changes should be persistent (you need to make changes to the interfaces file). By default IP forwarding has been enabled on all the routers.

Submit screenshots of the interfaces file in all VM's. Also include screenshots for routing tables in R1, R2 and R4.