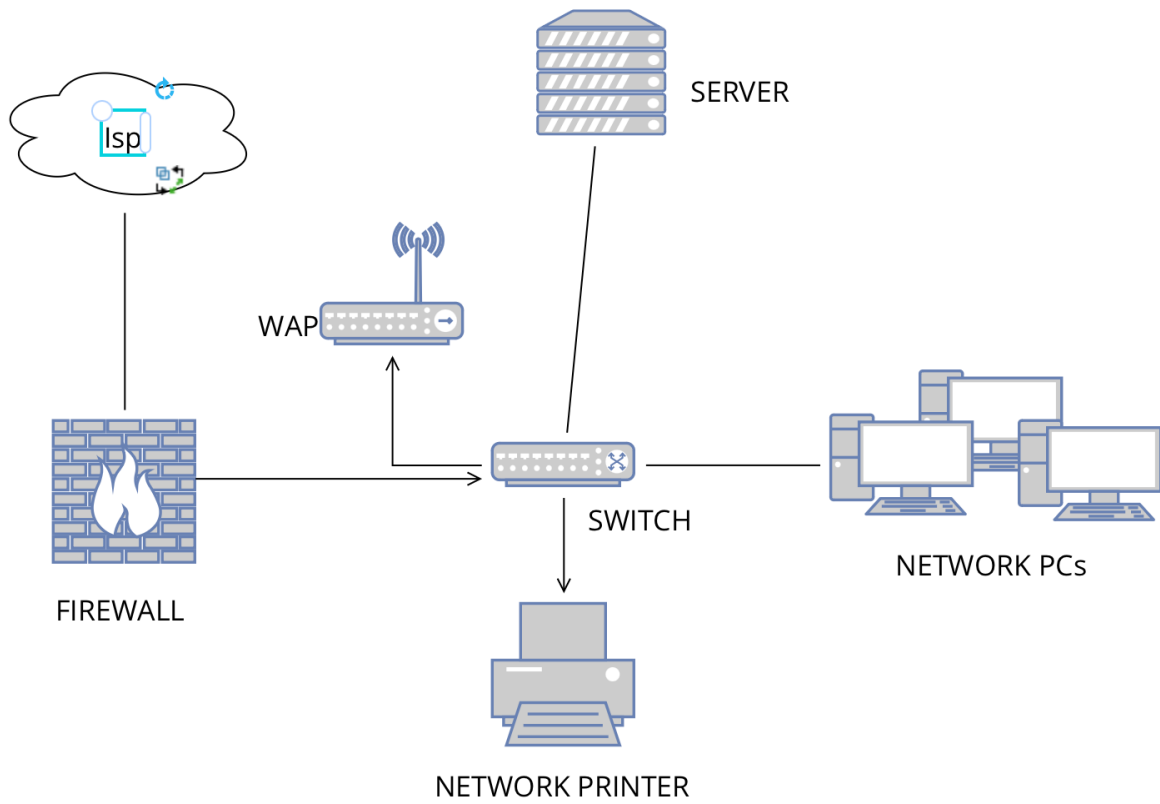


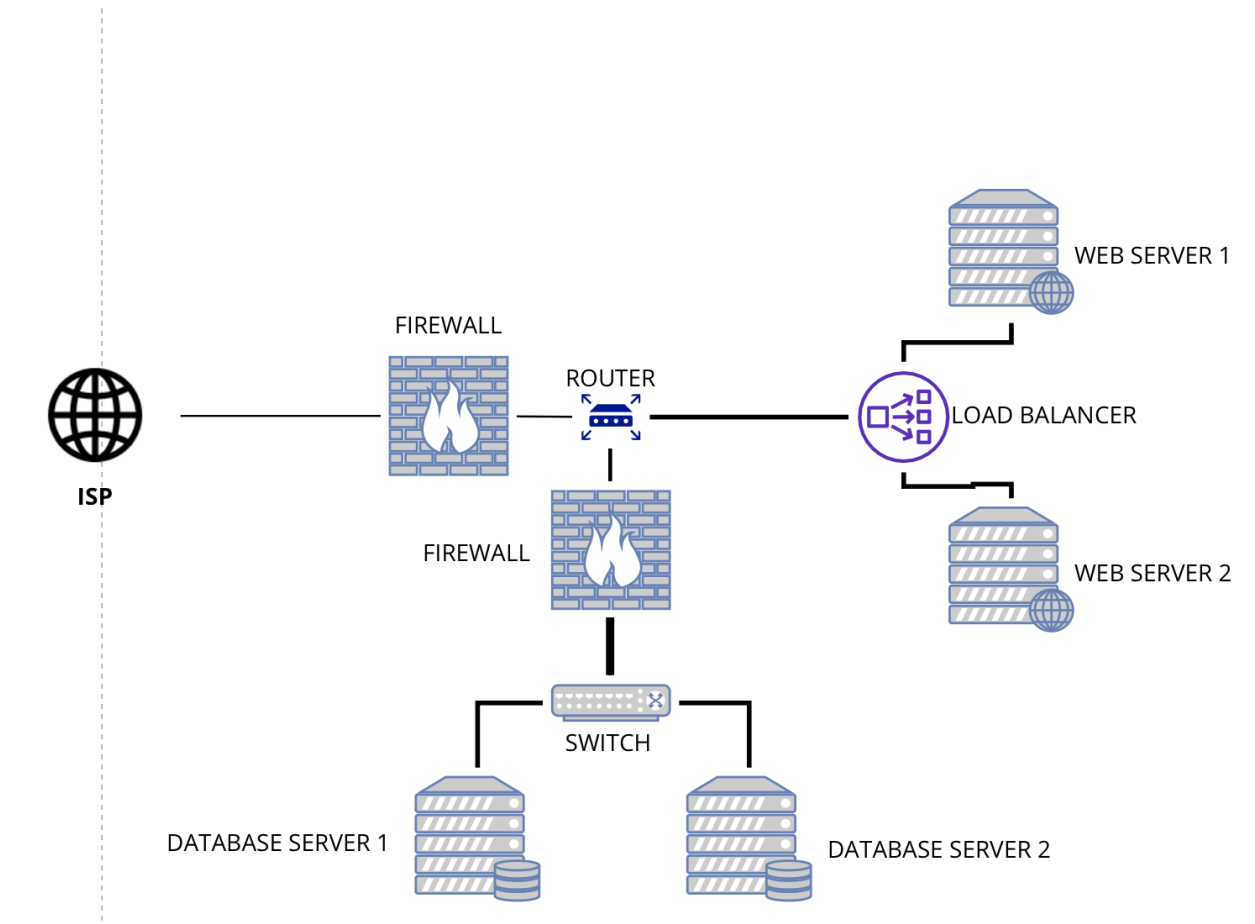
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NSE lab 1
9/3/21

Task 2: Build a basic network diagram



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Task 3: Create your own network diagram



Lab Write up

After adding your screenshots from previous tasks, answer the following questions related to the lab:

1. Why did you construct your network the way that you did?

I designed my network with security and reliability in mind. I did this to keep the network safe and to ensure the network services will always be available. Firstly, I placed a firewall between the Internet and the router. This way all unwanted traffic is filtered out before it reaches the

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network. The outgoing traffic will also be filtered this way before it leaves the network. There is another firewall filtering traffic to and from the switch for the database servers. This is an added layer of protection to safeguard confidential information on the database servers. This network Diagram includes a backup database server and a backup web server. The load balancer will evenly distribute traffic to the web servers.

2. What did you learn about constructing a secure network?

I learned that you want to have a firewall to cover all paths to your server farm. I also learned that It's okay to have web servers in the DMZ if you have a firewall between the DMZ and the internet. Another thing I learned is that networks can have multiple firewalls. This is used to create secure enclaves. That's why I put another firewall in front of the database servers. In summary, I learned that designing a network topology is important for defense in depth.