

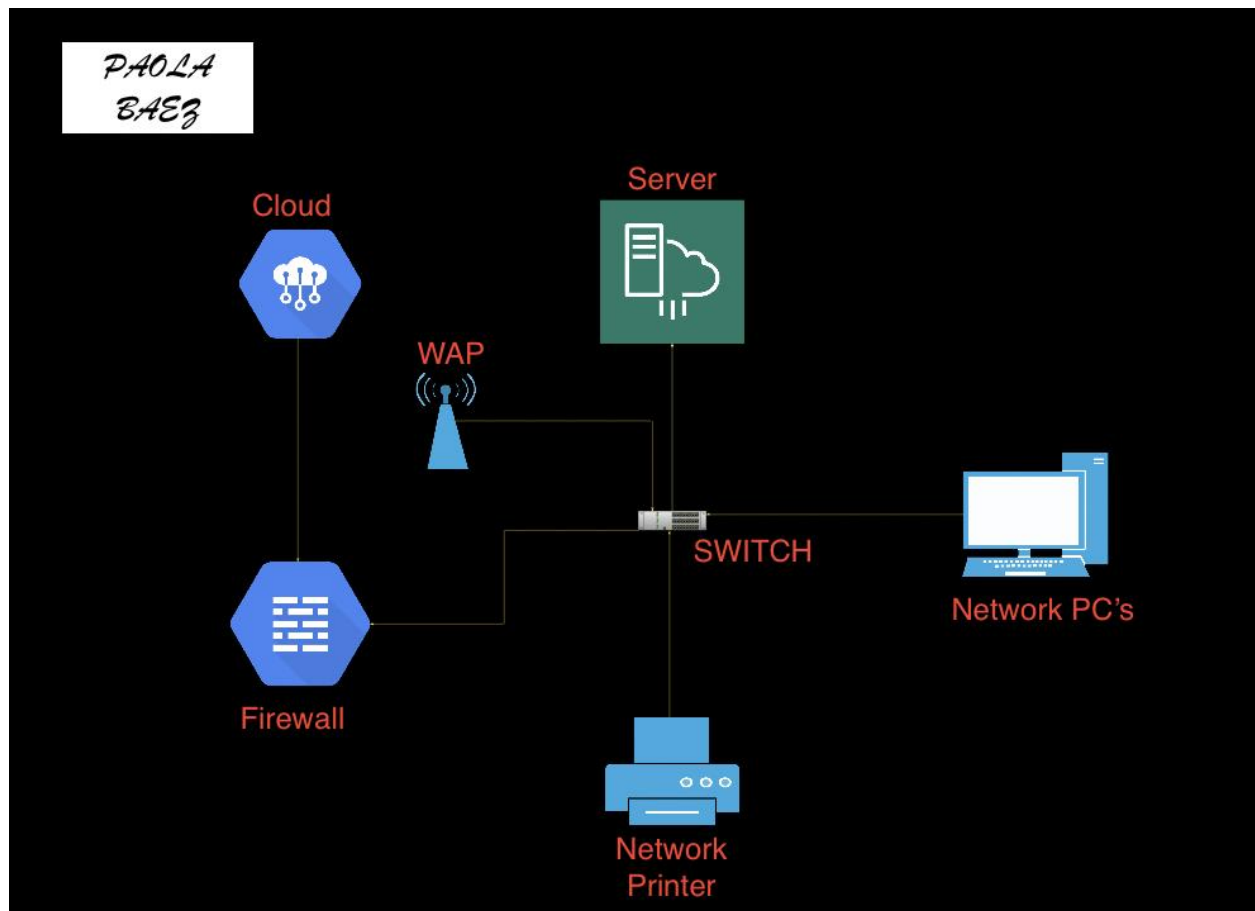
Paola Baez

Lab 1 - Building a Network Diagram

Task 1: Download and install Microsoft Visio

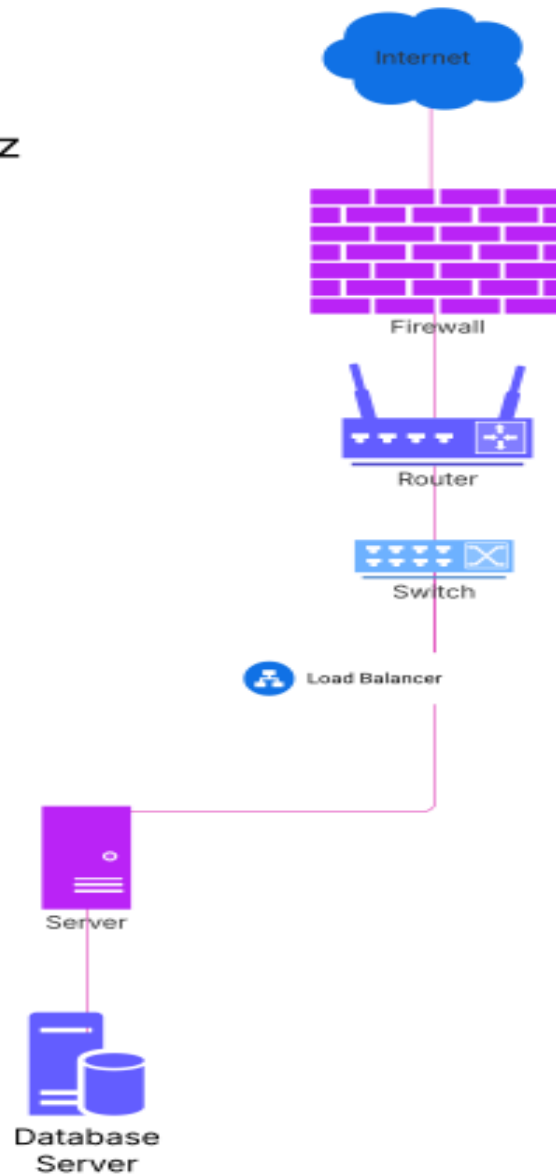
DELIVERABLE: There is no deliverable for this task.

Task 2: Build a basic network diagram



Task 3: Create your own network diagram

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Lab Write up

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

I constructed my network the way I did to ensure there's security and efficiency. The firewall is at the front to help block any suspicious traffic right away as it's supposed to. The router goes below the firewall to help manage data flow between the different parts of the network. The switch is added to create a smooth connection between devices. This is designed to assist with internal communication. The load balancer takes fourth place as a key component to distribute traffic between servers. The database was placed last to keep sensitive information protected from outside threats.

What did you learn about constructing a secure network?

I learned that it is crucial to remember that building a secure network involves more than just adding firewalls; it also requires layers of protection. The placement of each component is very important. Keeping the database server behind the web server adds an extra layer of security. I also got to learn how essential load balancers are for maintaining performance during high traffic. Using switches helps to organize the network internally and reduces the risks if anything goes wrong with a device. Designing a network teaches the importance of balancing security, efficiency, and performance.