Information Technology for Logistics

Objective

- Deploying and mangaing cloud applications.
 - Web application (PHP)
 - Automation tool (n8n)
 - Enterprise resource planning software (ERPNext)
- Designing integrated IT workflow connecting these systems for logistics operations.

Skill

- Cloud service and networking.
- System administration
- Logistics/business-flow design

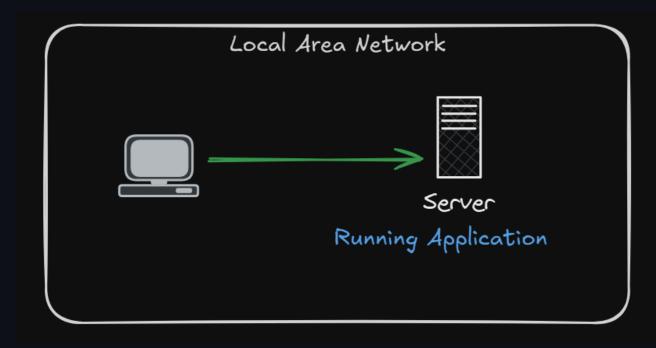
Work

- Assignment (25%)
- Project (25%)

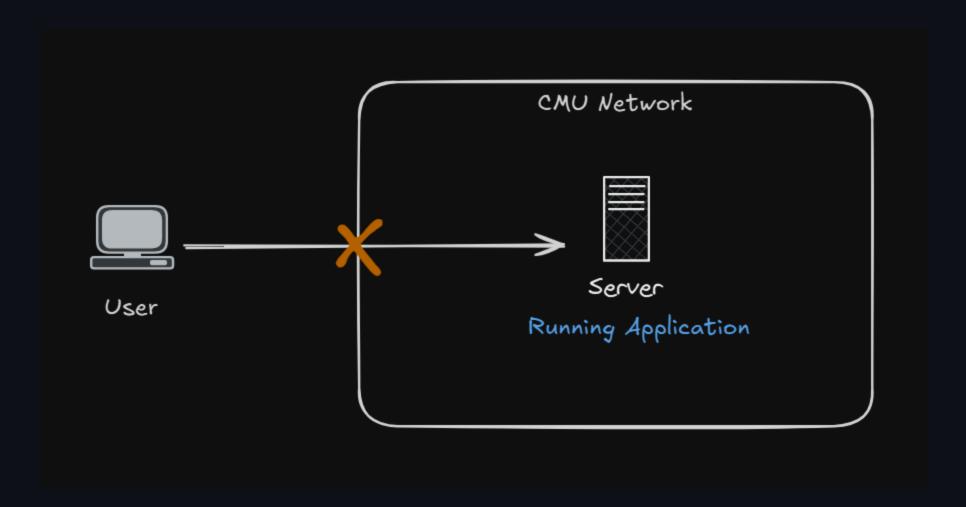
Part 1: Cloud Service

Within Same LAN

 Computers within the same LAN can connect.



Outside LAN



Outside LAN

- CMU gateway (router) would not allow it.
 - For security
- Share public IP problem.

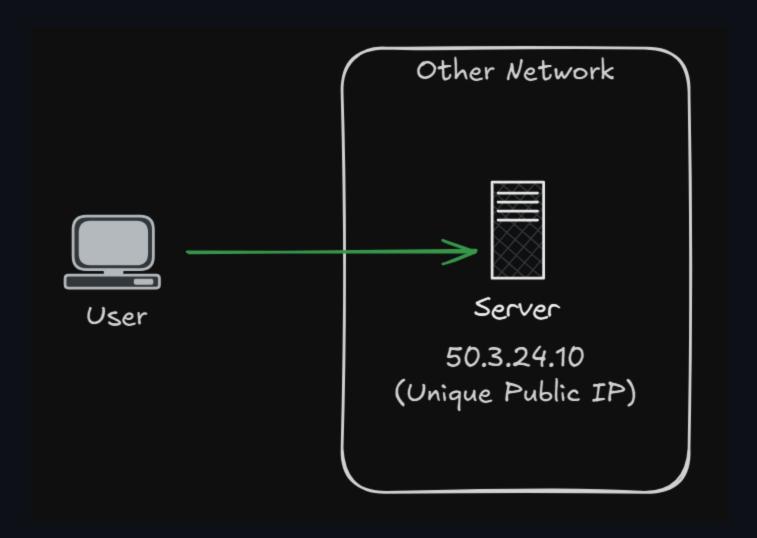
Test Connectivity - ping

- ping google.com (working)
- Trying ping your computer's public IP.

DNS

- Domain Name System
- Internet protocol that translates human-readable domain names (like example.com) into machine-readable IP addresses (like 93.184.216.34)
- dig google.com

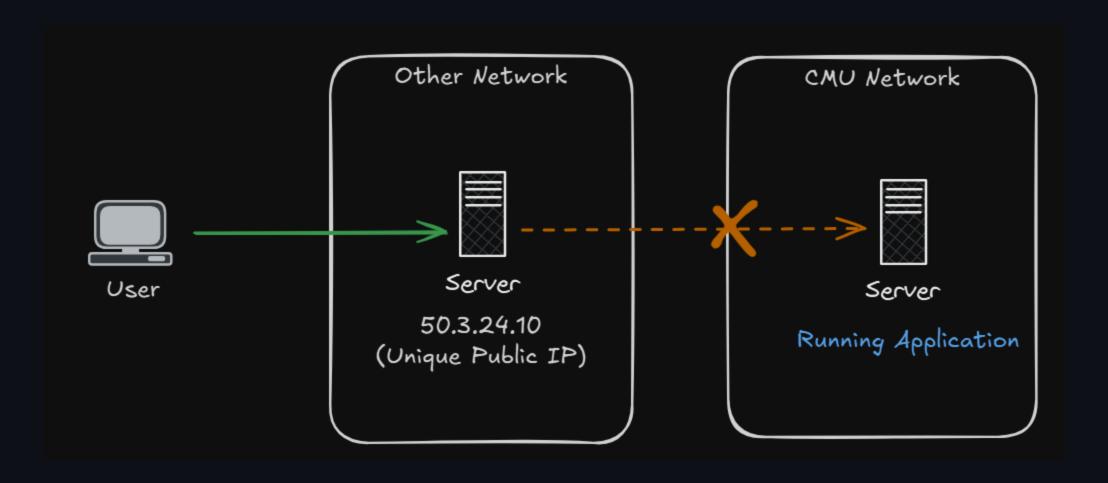
Server with Public IP



Test Server Connection

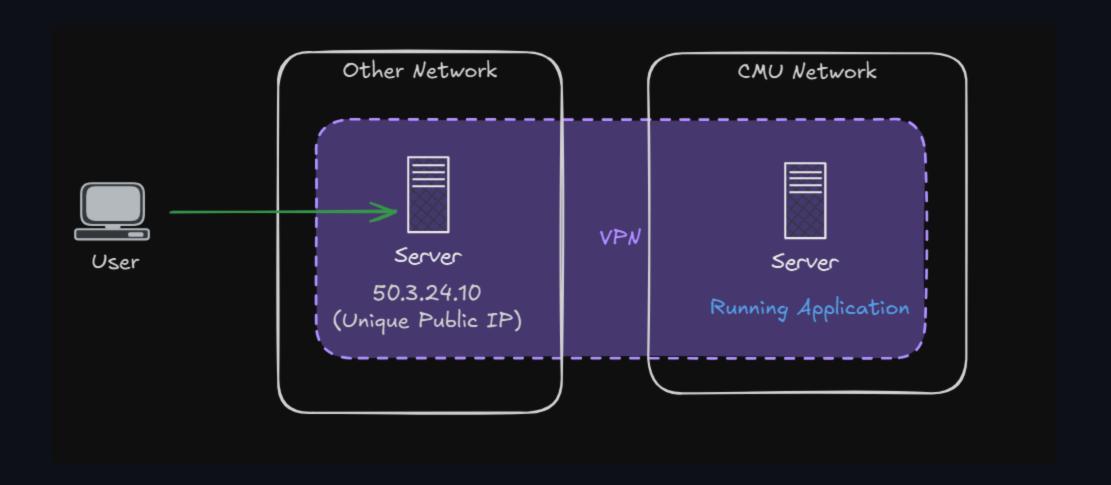
- ping iecmu.com
- Can you find out what the ip address is?

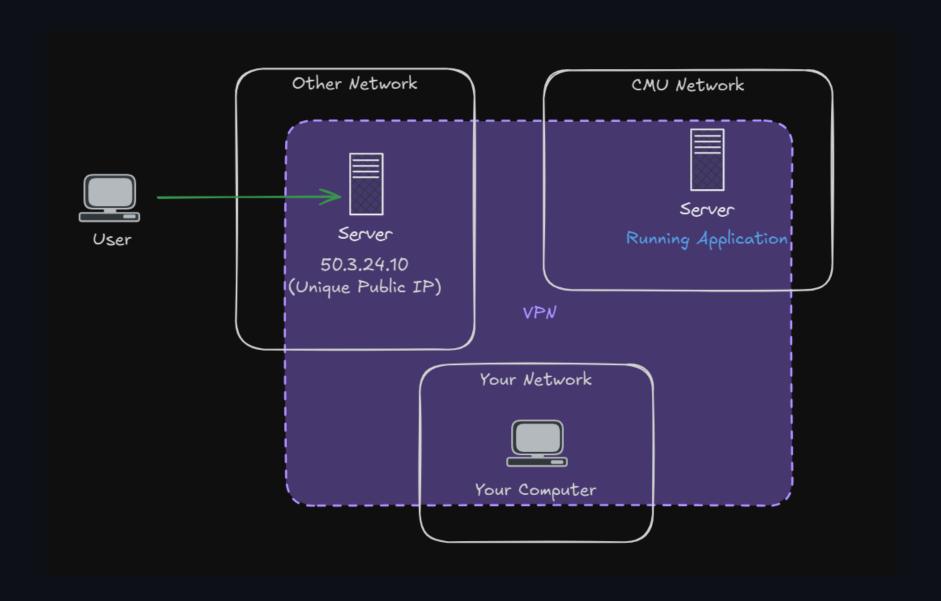
Same Problem



VPN

- Virtual Private Network
- Technology that creates a secure, encrypted connection over the internet
 - Allowing private network access from remote or public locations.
- As if computers are in the same LAN.





Task: VPN Connection

- Connect to VPN.
- You should be able to ping the server IP and local URL.
- Can you find out the ip address in the VPN?

Linux fundamentals

- Log into the your server.
 - ssh admin@10.66.66.x
- Perform basic tasks
 - Navigation
 - o nano
 - o sudo concept