

Final Project

You are required to design An Architecture required for one of the big Multinational Schools in Town.

They have 2 Buildings in Campus with many teams to support its function also they need to have their own published website and secure it .

Tasks :

First Week :

- You are required to design a network topology contains the needed devices (switches,routers,access points,end points...etc)
- Put a detailed IP scheme containing subnets and at least 3 Vlans in each building for departments (Teachers , HR ,Operation)

Second Week :

Configure network devices with the needed configuration included intervlan, OSPF routing .

- Configure Web server for the school and choose it's public IP
- Choose public IP for the school to access internet and do the needed natting to access web server

- Configure DNS server.
- Apply the required security measurement including : Port security, NTP server, Syslog server for monitoring logs and ACL to define who is permitted to access web server.

Third week :

- test the connectivity using ping, traceroutes...etc and do the needed troubleshooting.
- Prepare a detailed presentation explaining your design, segmentation and choices also included your recommendation for development to avoid potential attacks like ransomwares, social engineering...etc

Regards

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