Week 3 - Operating Systems and Networking Basics

Topics :

- Linux and Windows environments.
- General networking concepts: DNS, IPs, firewalls, HTTP/HTTPS.
- Web servers: Nginx, Apache.

Assignments:

1. **Configure a Linux VM with the following:**
   - ➢ Nginx as a reverse proxy.
   - ➢ Firewall rules to allow only HTTP/HTTPS traffic.
   - ➢ A custom 404 error page.
2. **Design and implement a basic networking topology:**
   - ➢ Set up two VMs with private IPs.
   - ➢ Configure one VM as a web server and the other as a client.
   - ➢ Use SSH to securely transfer files between them.

Resources:
- [Networking for Beginners](#)
- [Advanced Networking](#)
- [Apache HTTP Server Documentation](#)