Day Five Task

LAMP Stack Deployment – Team Project

You will be working with a total of three servers: one for the webserver, one for the database, and one for monitoring. The webserver should run either Apache2 or Nginx to host PHP-based websites that interact with a MySQL database.

Your task includes setting up monitoring, adhering to security best practices, and implementing a deployment process that allows easy updates. Use DNS names instead of IP addresses for accessing the servers. Additionally, install Certbot to automate the renewal of SSL certificates. You may use free domains from https://freedomain.one/ for this purpose.

What are the trainers expecting?

- A clear understanding of web servers, their roles, and how they function.
- Awareness of security best practices when deploying and managing web and database servers.
- An explanation of why SSL protection is necessary for websites.
- A fully functional website that is accessible, communicates properly with the database, and runs over HTTPS with SSL enabled.
- An explanation of the importance of monitoring systems and identification of key metrics to track within the LAMP stack infrastructure. A monitoring plan is sufficient, but implementation is a bonus.
- A backup and restore strategy to ensure business continuity in case of disasters. A detailed plan is enough, though implementation is encouraged.