# Task 0: Simple Web Stack

#### **Description:**

This project implements a simple web infrastructure using a LAMP stack.

### **Components:**

- 1 server
- 1 web server (Nginx)
- 1 application server
- 1 application files (code base)
- 1 database (MySQL)
- 1 domain name foobar.com configured with a www record pointing to server IP 8.8.8.8

# **Explanations:**

- \*\*Server\*\*: Provides hosting for all components.
- \*\*Domain Name\*\*: Maps human-readable domain (foobar.com) to server IP.
- \*\*www DNS Record\*\*: Points the domain to the web server.
- \*\*Web Server (Nginx)\*\*: Handles HTTP requests and serves static content.
- \*\*Application Server\*\*: Executes dynamic code and interacts with the database.
- \*\*Database (MySQL)\*\*: Stores website data.

### Issues:

- Single Point of Failure (SPOF)
- Downtime during maintenance
- Limited scalability with increased traffic