

# ALX

## WEB INFRASTRUCTURE DESIGN

### Task 0

#### 1. **Server:**

Server is a super computer that provides computing resources to clients

#### 2. **Role of a domain name:**

Domain name is a human readable identifier to a unique server

#### 3. **Type of DNS record in [www.foobar.com](http://www.foobar.com):** cname

#### 4. **Role of application server:**

Provides the business logic of the application to clients

#### 5. **Role of database:** Persists data in an orderly fashion.

#### 6. **What is the server using to communicate with the computer:** HTTP protocol

### Issues

#### 1. **SPOF:**

The system is ideally in a single failure domain. This could be catastrophic as failure emanating from any single component leads to failure in all the other components.

#### 2. **Limited scalability:**

The single unit, server, can only enjoy so much scalability

#### 3. **Limited performance**

The stub unit can only handle so many communications before it is overwhelmed