

ALX

WEB INFRASTRUCTURE DESIGN

Task 1

1. Additional Components:

Reason: Afford the system robust features

- a. **Server:** To better handle multiple requests that would otherwise overwhelm a single server
 - b. **SSL Certificate:** Facilitates secure communication through authenticating valid server to host on establishing of the connection
 - c. **Firewalls:** Server as a control system to regulate services and proceeds allowed into the system
- 2. **HTTPS:** Offers end-to-end encryption of communications
 - 3. **Monitoring:** Automates detection and diagnosis of problems on systems
 - 4. **Monitoring functionality:** Collects logs of the activities in the server
 - 5. **Monitoring QPS:** Monitor from the network and application level

Issues

- 1. Duplication across multiple nodes:
 - Solving for a bug now requires double the effort