

Task 1: Distributed Web Infrastructure

Description:

This project implements a distributed web infrastructure for www.foobar.com.

Components:

- 2 servers
- 1 web server (Nginx)
- 1 application server
- 1 load balancer (HAproxy)
- 1 set of application files (code base)
- 1 database (MySQL)

Explanations:

- ****Server 1****: Hosts web server, application server, and load balancer.
- ****Server 2****: Hosts application server and database.
- ****Web Server (Nginx)****: Handles HTTP requests and serves static content.
- ****Application Server****: Executes dynamic code.
- ****Load Balancer (HAproxy)****: Distributes traffic across servers.
- ****Database (MySQL)****: Primary-Replica cluster for data redundancy.

Issues:

- Single Point of Failure (SPOF)
- Lack of security measures (no firewall, no HTTPS)
- Absence of monitoring