

## Web infrastructure design Project

### Task 3: 3-scale\_up

Url link = [3-scale\\_up - Google Docs](#)

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#### Definitions and Explanations.

Exploring the Need for Additions: Each time we introduce a new element, there's a rationale behind it. In this instance, we've brought in an extra server and integrated a load balancer. The introduction of this new server has a specific purpose—to separate distinct components: the web server (Nginx), the application server (code base), and the database (MySQL), each residing on its dedicated server. Yet, we've also set up an extra server that accommodates all components, poised to serve as a backup in case of component or server malfunctions. Vigilant monitoring and reinforced firewalls are in place for each server. Furthermore, we've added an additional load balancer to effectively manage amplified traffic flow across the entirety of the infrastructure.

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