

3. Scale up

- You must add:
 - 1 server
 - 1 load-balancer (HAproxy) configured as cluster with the other one
 - Split components (web server, application server, database) with their own server
- You must be able to explain some specifics about this infrastructure:
 - For every additional element, why you are adding it

Why we added another load balancer: It helps in handling increased traffic across the entire infrastructure.

Why we added another server: For increased redundancy. We are also able to separate each component (the Nginx WebServer, the Application Server and the MySQL Server) with its own server. The additional server, which has all components, serves as a backup for each component in case of failure. All servers are monitored and each has a firewall.