You must be able to explain some specifics about this infrastructure:

• For every additional element, why you are adding it

load balancer

- Handle the high volume traffic at the site by distribute it among the servers

2 servers

- 1 server to hosting the load balance
- 1 server for support the site
- What distribution algorithm your load balancer is configured with and how it works
 Round Robin Scheduling, The Requests are served by the server sequentially one after
 another. After sending the request to the last server, it starts from the first server again.
- Is your load-balancer enabling an Active-Active or Active-Passive setup, explain the difference between both
 - Round Robin algorithm for load balancing typically indicates an active-active setup -Active-Active Setup: Multiple load balancers handle traffic simultaneously, increasing capacity and providing high availability.
 - -Active-Passive Setup: One load balancer is active, distributing traffic, while another remains idle as a backup. It provides failover protection for high availability.
- How a database Primary-Replica (Master-Slave) cluster works
 - -a query write to the leader, the leader then replicate the updated data to the follower, both leader and follower must commits before the right is considered a successful
- What is the difference between the Primary node and the Replica node in regard to the application
 - -Primary Node: Responsible for handling read and write operations, maintaining the primary copy of data, and enforcing consistency rules.
 - -Replica Node: Stores duplicate data, provides fault tolerance, serves read requests, and reduces the load on the primary node.