

Task 2.

Definitions and Explanations.

1. **For every additional element, why are adding it:** we have added three new parts; a firewall for every server to shield them from being gone after and taken advantage of, 1 SSL declaration to server `www.foobar.com` over HTTPS and three observing clients that will gather logs and send them to our information authority Sumologic.
2. **What are firewalls for:** is an organization security framework that screens and controls approaching and active organization traffic in view of foreordained security rules. It fundamentally lays out an obstruction between a confided in network and an untrusted network.
3. **Why is the traffic served over HTTPS;** since already the traffic was disregarded Hypertext Move Convention (HTTP) which moves information in plain text while HTTPS is secure where the information is scrambled utilizing Move Layer Security (TLS).
4. **What monitoring is used for;** it gives the capacity to distinguish and analyze any web application execution issues proactively.
5. **How the monitoring tool is collecting data:** it gathers logs of the application server, MySQL Information base and Nginx web server. A sign in a processing setting is the consequently created and time-stepped documentation of occasions pertinent to a specific framework.
6. **Explain what to do if you want to monitor your web server QPS;** one web server handles 1K questions each second (QPS), I would fundamentally screen it from the organization and application level.

Issues

- A. **Why terminating SSL at the load balancer level is an issue;** it is an issue since decoding is asset and computer chip escalated. Putting the unscrambling trouble on the heap balancer empowers the server to spend handling power on application errands yet to be straightforward I don't know see the issue frankly (I will refresh this).
- B. **Why having only one MySQL server capable of accepting writes is an issue;** since once it is down it implies do information can be added or refreshed significance a few elements of the application won't work.
- C. **Why having servers with all the same components (database, web server and application server) might be a problem;** this is on the grounds that once you have a bug in one of the parts in one of the servers then the bug will be substantial in different servers.