

What is a server?

Computer or software that provide resources as a response to a request.

- What is the role of the domain name?

It represents an IP address to reach a requested resource, it's readable and easy to remember.

- What type of DNS record `www` is in `www.foobar.com`?

It's subdomain represented by CName record

- What is the role of the web server?

It sends static content mainly upon receiving requests

- What is the role of the application server?

It serves the business logic needed, to send dynamic content, based on request received.

- What is the role of the database?

It stores data in an organized way make it easy to reach stored data

- What is the server using to communicate with the computer of the user requesting the website?

It's using HTTP language to communicate.

- You must be able to explain what the issues are with this infrastructure:

- SPOF

There is no load balancer, so there might be issues related to overload, and no extra servers in case of one of them is down, no firewalls and that is a great issue.

- Downtime when maintenance needed (like deploying new code web server needs to be restarted)

There would be a great downtime as no redundancy for the server to replace the servers, no load balancer.

- Cannot scale if too much incoming traffic

Can't scale much for having a single server