ALX Project Task :

0. Simple web stack

What is a server:

A server is a device real or virtual that provide services for clients(other devices).

What is the role of the domain name:

The domain name help to identify easily a device with a text instead of an address.

What type of DNS record www is in www.foobar.com:

This type is called cname .

What is the role of the web server:

It's a server that host and serve web pages when a client requests it using HTTP protocol.

What is the role of the application server:

It executes a type of a server-side code to show o dynamic content.

What is the role of the database:

A database is a place(device) where any type of data can be stored and accessed and updated.

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

In this case we use HTTP protocol.

The issues with some infrastructures:

SPOF: In case an infrastructure has a single application server, web server or one copy of an important device in the infrastructure, if it fails the entire system can be stoped.

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

If the downtime goes longer then the users can not access the service , like a website or an application.

Cannot scale if too much incoming traffic:

This problem can be a cause of having one DNS server for example that can't response to too many users requests, so many users and traffic will be lost and maybe the server will be attacked with a DOS attack.