

ALX WEB INFRASTRUCTURE DESIGN PROJECT

TASK 0

0-Simple Web Stack

- ⇒ **What is a server:** - A server is a computer program or device that provides a service to another computer program and its user, also known as the client. In a data center, the physical computer that a server program runs on is also frequently referred to as a server.
- ⇒ **What is the role of the domain name** :- The DNS translates domain names into IP addresses
- ⇒ What type of DNS record **www** is in www.foobar.com :- It is a 'CNAME'
- ⇒ **What is the role of the web server:** - The web server uses HTTP (Hypertext Transfer Protocol) and other protocols to respond to client requests made over the World Wide Web. The main job of the web server is to display the website content through storing, processing and delivering webpages to users.
- ⇒ **What is the role of the application server:** - The application server acts as host for generating the dynamic contents by executing server-side codes such as Python, PHP etc.
- ⇒ **What is the role of the database:** - Database is used for storing, maintaining and accessing data.
- ⇒ **What is the server using to communicate with the computer of the user requesting the website:** - The server communicates with the user's computer using HTTP Protocol

ISSUES

SPOF: - Multiple single-point of failure is a great limitation to this sort of server.

Downtime when maintenance needed: - There would be a longer downtime during maintenance due to a single codebase and less redundancy

Cannot scale if too much incoming traffic: - This server cannot handle too much traffic due to low availability cluster and low redundancy