

TASK 0 answer file

JPG LINK: <https://imgur.com/a/tMHHbtj>

ABOUT THIS INFRASTRUCTURE:

- **What is a server?**

A server is piece of computer hardware or software (physical or virtual) that runs an OS provides services for other devices or programs, and is typically located in a data center.

- **What is the role of the domain name?**

DNS's role is to map domain names into IP addresses

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

It is a canonical name that points to an A record that is mapped into an IP address

- **What is the role of the web server?**

To serve the static content of web pages.

- **What is the role of the application server?**

To serve (compute) the dynamic content of web pages.

- **What is the role of the database?**

To store the application data

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

TCP/IP network protocol

ISSUES WITH THIS INFRASTRUCTURE:

1. The server is a single point of failure because nothing is redundant.
2. Downtime when maintenance needed (like deploying new code web server needs to be restarted)
3. Cannot scale if too much incoming traffic