Internet Technology

WEB SERVERS

Submitted By: Vedprakash Maliarya (20201429)

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Web Server?

In simple terms, a web server is a computer that stores, processes, and delivers website files to web browsers.

Through this process, web servers load and deliver the requested page to the user's browser – Google Chrome, for example.

Web servers also use Simple Mail Transfer Protocol (SMTP) and File Transfer Protocol (FTP) to process files for email or storage.

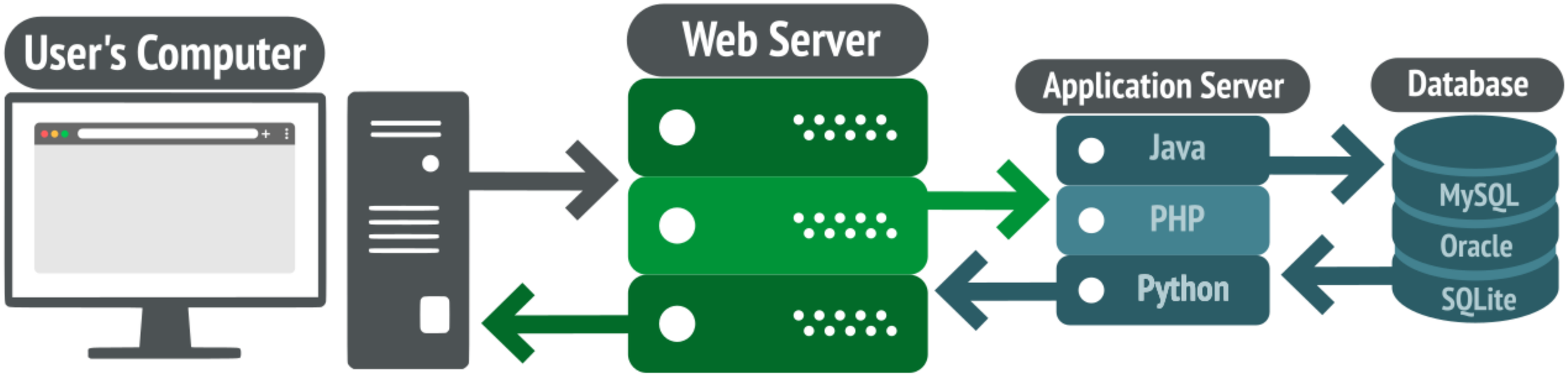
Web Server Made Up Of?

On the hardware side, a web server connects to the internet, which enables it to exchange data or files between other devices that are likewise connected.

This data can come in different forms, such as HTML files, images, JavaScript files, or CSS stylesheets.

Web server hardware also stores web server software.

Web Server Works:



To process web client's requests, web servers follow a few steps:

1.**When a web user wants to load a website’s content, their web browser requests access through the internet. This is called an HTTP request.**

2. **The web browser looks for the requested website’s IP address by translating the URL of the web pages via the Domain Name System (DNS) or by searching through its cache. This process locates the web server where the site’s files are hosted.**

3. The web server receives the HTTP request and processes it through its HTTP server.

4. Once its HTTP server accepts the request, it will search through server files to obtain the relevant data.

5. After that, the web server returns the site files to the web browser that sent the request. Then, the web user sees the website content.

However, if the HTTP server fails to find or process the requested files, it responds to the web browser with an error message.

One of the most common is a 404 error, but a 403 error may also appear if there are permission issues.

On the other hand, if a web server fails to receive a timely response from another server acting as a proxy or gateway, a 504 error occurs.

Oops, you found our page_404 page

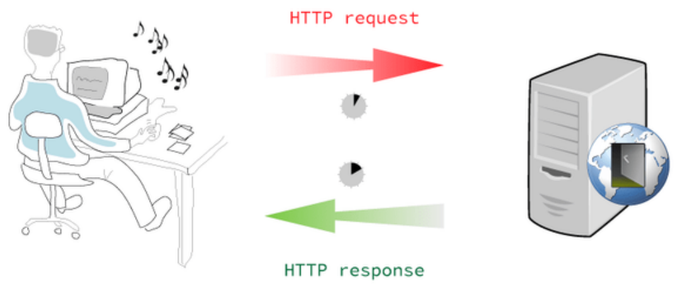
This is not a fault, just an accident that was not intentional.
However, we doubt that this is the page you're looking for
and we apologize profusely for it.

Go to homepage

Static Vs Dynamic Website

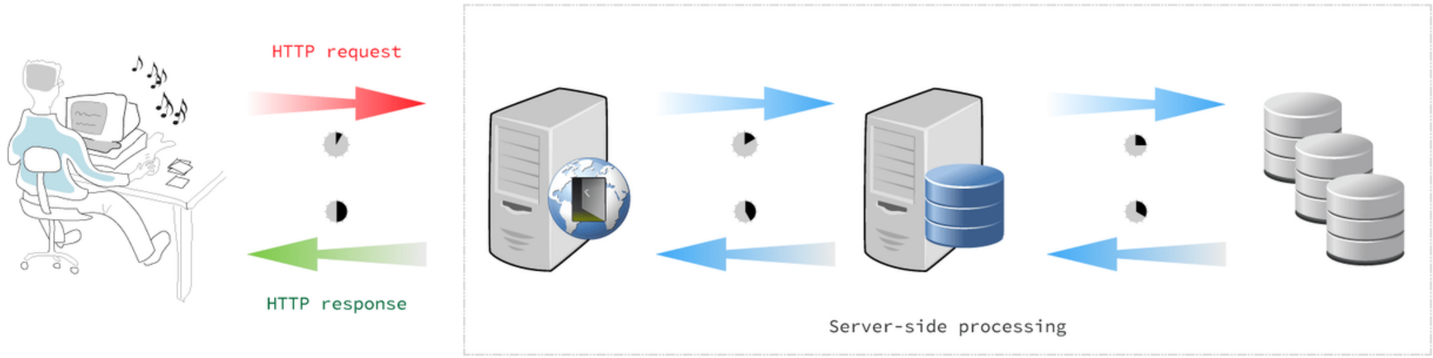
Scheme A

Static Website



Scheme B

Dynamic Website



Conclusions:

A web server is a computer that stores, processes, and delivers website files. It consists of a hardware and a software side, with each playing a distinct role in processing files.

Moreover, different types of web servers can deliver dynamic content or static content to a browser. Regardless of the type, web servers come with some standard features, including:

- File logging
- Authentication
- Bandwidth limiting
- Storage space

THANK
YOU