Web server

* Web server is a computer that runs in website.
* One content for the end user which providing via internet called web server.
* The basic objective of webserver is store ,process and delivers the webpages to the users.
* The intercommunication is done by http(hypertext transfer protocol)
* The webpages are mostly static contents that include html documents ,images ,stylesheets.

Components of webservers:

1. 1.physical server.
2. Request handler
3. Interpreter
4. Storage
5. File storage

Application server

* It encompasses Web container as well as EJB container.
* system, hosting the applications and services for users, IT services and organizations. In this, user interface similarly as protocol and RPC/RMI protocols are used.

Difference between webserver and application server:

| **Sr. No.** | **Key** | **Web Server** | **Application Server** |
| --- | --- | --- | --- |
| 1 | Purpose | Web Server contains Web container only. | Application Server contains Web Container plus EJB Container. |
| 2 | Useful | A web server is good in case of static contents like static html pages. | Applcation server is relevant in case of dynamic contents like bank websites. |
| 3 | Resource Consumption | Web server consumes less resources like CPU, Memory etc. as compared to application server. | Application server utilizes more resources. |
| 4 | Target Environment | Web Server provides the runtime environment for web applications. | Application server provides the runtime environment for enterprise applications. |
| 5 | Multithreading support | Multithreading is not supported. | Multithreading is supported. |
| 6 | Protocol(s) supported | Web Server supports HTTP Protocol. | Application Server suppots HTTP as well as RPC/RMI protocols. |
| 7 | Example | Apache Web Server. | Weblogic, JBoss. |

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How to Install nginx in ubuntu:

Step 1: install nginx

sudo apt update

sudo apt install nginx

step 2: adjusting the fire wall:

sudo ufw app list

Text

Description automatically generated

Step 3:To check nginx is active or not:

Text

Description automatically generated

Step 4: host you ip in your browser:

Graphical user interface, text, application

Description automatically generated

Step 5 managing the nginx process:

To stop the webserver type:

sudo systemctl stop nginx

Text

Description automatically generated

To start the webserver that you stopped:

sudo systemctl start nginx Text

Description automatically generated

to stop and restart the nginx again:

sudo systemctl restart nginx

if you are simply Makeing configuration changes ,apache can often reload without dropping connection to do this commend

sudo systemctl reload nginx

by default nginx is configured to start automatically when the server boots if you don’t want use this commend to disable

sudo systemctl reload nginx

to enable this service to start up boot type

sudo systemctl enable nginx

How to Install apache in ubuntu:

Step 1: install apache

sudo apt update

sudo apt install apache2

step 2: adjusting the fire wall:

sudo ufw app list

Text

Description automatically generated

Step 3: check status of apache2 active or not:

Text

Description automatically generated

Step 4:host your ip in crome:

Graphical user interface, text, email

Description automatically generated

Step 5: manages the apache2:

To stop apache use this commend

sudo systemctl stop apache2

Text

Description automatically generated

To start you stopped apache2 use this commend

Sudo systemctl start apache2

Text

Description automatically generated

if you are simply Makeing configuration changes ,nginx can often reload without dropping connection to do this commend

sudo systemctl reload apache2

by default nginx is configured to start automatically when the server boots if you don’t want use this commend to disable

sudo systemctl reload apache2

to enable this service to start up boot type

sudo systemctl enable apache2