

What is Apache web server?

OR

HTTPD web Server ?

- Apache web server or Apache http server is one of the most widely used on the Internet.
- It is developed and maintained by Apache Software Foundation, Apache is an open source software available for free.
- A web server generally hosts the web content, and responds to requests for this content from web browsers such as Internet explorer, Google chrome and Firefox.

Is httpd the same Apache?

- httpd is the same as apache2. It depends on the OS you use. For example in RHEL 6.2 it is called httpd and in Ubuntu it is called apache2.

How many web Servers we have in market ?

- 1- apache web server,
 - 2- IIS web server
 - 3- Nginx webserver and litespeed web server.
- Beside Apache, IIS and Nginx also among the most common web servers in use today.
 - As reported (July 18, 2016) the web server statistics shows that from the entire internet web, there are 46% web server running in Apache, 29% in Microsoft IIS and 19% in Nginx.

- The http protocol is sent over the wire in clear text, using port 80/TCP by default (though other ports can be used).
- There is also a TLS/SSL encrypted version of the protocol called https that uses port 443/TCP by default.

What is the difference between Apache and Tomcat?

- Apache Tomcat is used to deploy your Java Servlets and JSPs. So in your Java project you can build your WAR (short for Web ARchive) file, and just drop it in the deploy directory in Tomcat.
- So basically Apache is an HTTP Server, serving HTTP.
- Tomcat is a Servlet and JSP Server serving Java technologies.

What is Ngnix ? OR Nginx (pronounced “engine-x”) ?

- Developed by Russian developer Igor Sysoev, Nginx is a free, open-source HTTP server which can also be used as a reverse proxy, mail proxy, and a generic TCP/UDP proxy server.
- Support, bug fixes, and application development in Apache HTTP server is managed and maintained by a community of users from around the world and coordinated by the Apache Software Foundation. Support and maintenance of Nginx is handled by a company of the same name which was founded in 2011.
- Apache has been the prominent leader in web server market since its debuted in 1995. It hit the 100-million websites mark in 2009.

Types of website in markets ?

1- local website

2- global website

Types of Hosting ?

1- Name based hosting

2- IP Based Hosting

Service Profile ?

Package name: httpd

Daemon: httpd

Port number: 80 { http } and 443 { https }

File : /etc/httpd/conf/httpd.conf

Log: /var/log/httpd/access.log

/var/log/httpd/error.log

Document root place: /var/www/html

Page name: index.html OR index.php

What is HTTPS ?

- HTTPS stands for **Hyper Text Transfer Protocol Secure**.
- It is a protocol for securing the communication between two systems e.g. the browser and the web server.
- It is the protocol where encrypted HTTP data is transferred over a secure connection. By using secure connection such as Transport Layer Security or Secure Sockets Layer.
- The principal motivations for HTTPS are authentication of the accessed website, and protection of the privacy and integrity of the exchanged data while in transit.
- It protects against man-in-the-middle attacks, and the bidirectional encryption of communications between a client and server protects the communications against eavesdropping and tampering.
- It uses the port no. 443 for Data Communication. It allows the secure transactions by encrypting the entire communication with SSL.