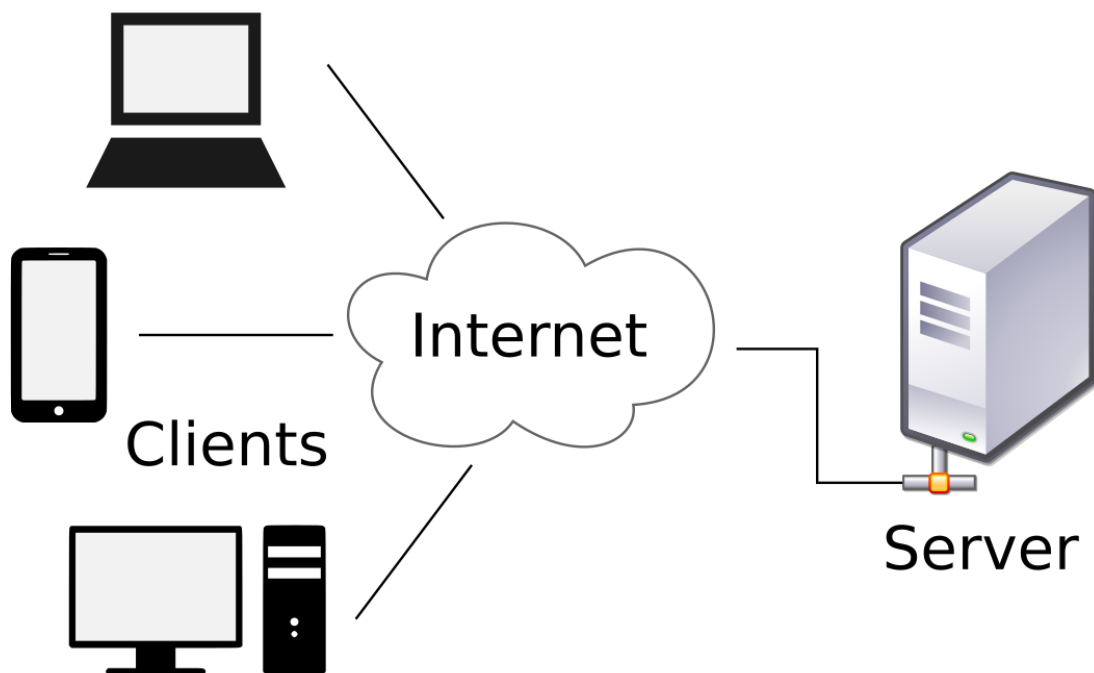# Web Server

A web server is software and hardware that uses HTTP (Hypertext Transfer Protocol) and other protocols to respond to client requests made over the World Wide Web. The main job of a web server is to display website content through storing, processing and delivering webpages to users. Besides HTTP, web servers also support SMTP (Simple Mail Transfer Protocol) and FTP (File Transfer Protocol), used for email, file transfer and storage.

Web server is a computer where the web content is stored. Basically web server is used to host the web sites but there exists other web servers also such as gaming, storage, FTP, email etc.

Apache HTTP Server

This is the most popular web server in the world developed by the Apache Software Foundation. Apache web server is an open source software and can be installed on almost all operating systems including Linux, UNIX, Windows, FreeBSD, Mac OS X and more. About 60% of the web server machines run the Apache Web Server.

Nginx

Nginx is a web server that can also be used as a reverse proxy, load balancer, mail proxy and HTTP cache. The software was created by Igor Sysoev and publicly released in 2004. Nginx is free and open-source software, released under the terms of the 2-clause BSD license.

Internet Information Services (IIS)

The Internet Information Server (IIS) is a high performance Web Server from Microsoft. This web server runs on Windows NT/2000 and 2003 platforms (and may be on upcoming new Windows version also). IIS comes bundled with Windows NT/2000 and 2003; Because IIS is tightly integrated with the operating system so it is relatively easy to administer it.

Install LAMP server in the CENTOS 7:

Disable SELINUX:

```
===========================

#vi /etc/selinux/config


Disabled

Esc

shift:x

#reboot

#getenforece



===========================
```

Install Apache:

```
#yum install httpd

#systemctl start httpd

#httpd -v

#firewall-cmd --permanent --add-service=http

#firewall-cmd --permanent --add-service=https
```

```
#firewall-cmd --reload
```

Virtual Hosting:

======================

```
#mkdir /var/www/html/dev.globallocaljobs.com/ -p

#chown -R apache:apache /var/www/html/dev.globallocaljobs.com/

#cd /etc/httpd/conf.d/

#vim dev.globallocaljobs.com.conf

 <VirtualHost *:80>

      ServerName dev.globallocaljobs.com

      DocumentRoot "/var/www/html/dev.globallocaljobs.com"

</VirtualHost>

<Directory "/var/www/html/dev.globallocaljobs.com">

      Options Includes ExecCGI FollowSymLinks MultiViews

      AllowOverride All

      Require all granted

</Directory>


Esc

shift :x

#apachectl -t

#systemctl restart httpd
```

Install mysql 5.7:

======================

```
#yum localinstall https://repo.mysql.com//mysql80-community-release-el7-7.noarch.rpm

#yum install mysql-community-server [Install mysql-community-server]

#systemctl start mysqld
```

```
#systemctl enable mysqld

#mysql -V

#grep "A temporary password" /var/log/mysqld.log | tail -1

#mysql_secure_installation

#mysql -u root -p [Login as root user]
```

Install PHP 7.2:

```
===========================

#sudo yum install http://rpms.remirepo.net/enterprise/remi-release-7.rpm

#sudo yum-config-manager --enable remi-php72

#yum install php php-common php-opcache php-mcrypt php-cli php-gd php-curl
php-mysql php-xmlrpc php-imap php-devel php-mbstring php-litespeed

#yum list installed | grep php [Check installed PHP packages]

#php -v
```