

---

---

# Web Application Basic Architecture and Automation

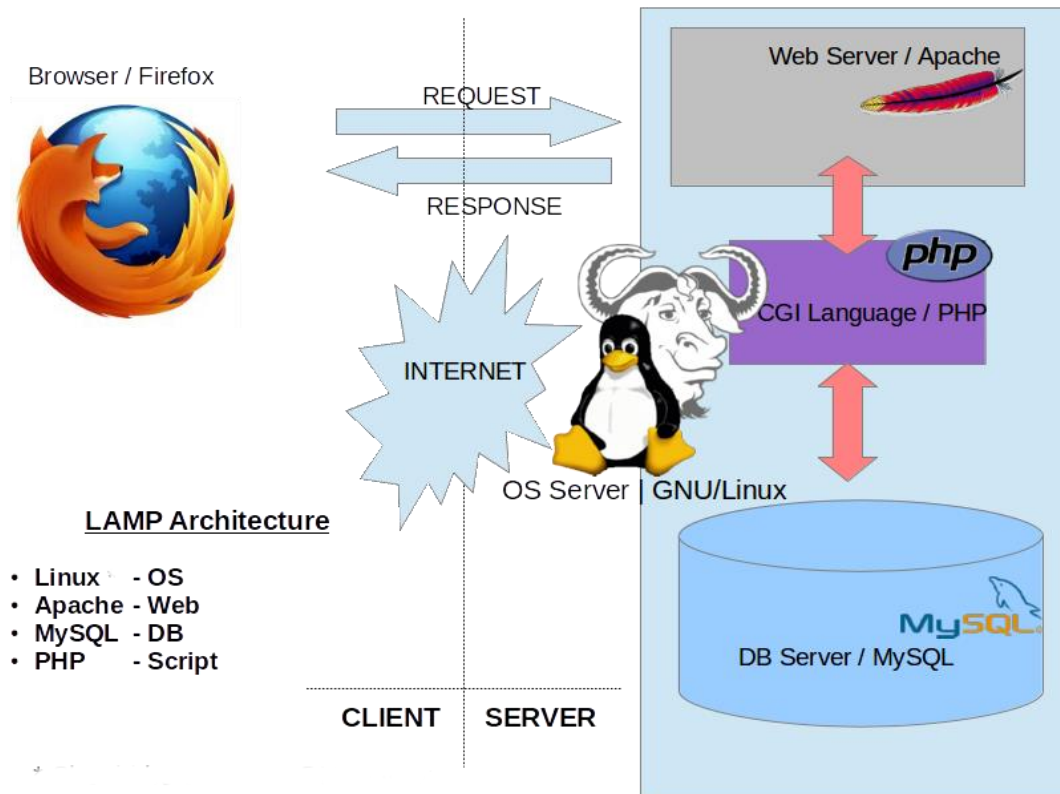
---

---



1159 Sonora Court Suite 205, Sunnyvale CA, 94086 USA  
Tel. +1 (408) 220 9912 Ext 1 [www.qauber.com](http://www.qauber.com)

# LAMP



# knowing about LAMP server

LAMP stands for Linux, Apache, MySQL, PHP

Linux is OS

Apache is HTTP Server

MySQL is Database

PHP is scripting language that is especially suited for web development

# Linux Commands

- List files “ls”
- Make directory “mkdir”
- Linux OS can be Ubuntu, CentOS(RHEL)
- In CentOS, applications are installed through rpms
- In CentOS rpms can be installed using installer called yum
- yum will install these rpms from a centralized location called yum repository

# Install Apache

```
yum install httpd httpd-devel  
/etc/init.d/httpd start
```

To make sure everything installed correctly we will now test Apache to ensure it is working properly.

Open up any web browser and then enter the following into the web address:  
`http://localhost/`

You should see a folder entitled `apache2-default/`. Open it and you will see a message saying "It works!" , congrats to you!

# Install MySQL

```
yum install mysql mysql-server mysql-devel
```

```
/etc/init.d/mysqld start  
mysql
```

```
mysql> USE mysql;  
mysql> UPDATE user SET Password=PASSWORD('newpassword') WHERE user='root';  
mysql> FLUSH PRIVILEGES;
```

```
mysql -u root -p  
Enter Password: <your new password>
```

# Create demo User in MySQL

To create a new mysql user 'guest' with 'all privileges' on the database 'demo':

```
mysql > create database demo
```

```
mysql > GRANT ALL PRIVILEGES ON demo.* TO 'guest'@'localhost' IDENTIFIED  
BY 'guest' WITH GRANT OPTION;
```

```
mysql> UPDATE user SET Password=PASSWORD('guest') WHERE user='guest';
```

# Install PHP

```
yum install php php-mysql php-common php-gd php-mbstring php-mcrypt  
php-devel php-xml
```

```
/etc/init.d/httpd restart
```



# Test PHP

Create a file named `/var/www/html/test.php` with the following `phpinfo()` function inside php quotes.

```
// test.php
```

```
<?php  
phpinfo();  
?>
```

Then point your browser to `http://ip.address/test.php`.

That's it! You should see a php configuration file displaying all kind of paths and installed modules.

# Install phpMyAdmin

phpMyAdmin is a free web based MySQL database Administration Tool. Without phpMyAdmin it is almost impossible to mysql db operations in the command line. phpMyAdmin has become so convenient and it is absolutely sought by most webmasters to be present along with the mysql server.

```
yum install phpmyadmin
```

Point your browser to: <http://ip.address/phpmyadmin>.

# Save Settings for reboots

We want the Apache and mysql to be loaded at every boot so we switch them on using chkconfig:

```
chkconfig httpd on
```

```
chkconfig mysqld on
```