1. After fresh OS installation, first do run yum update to patch all packages to latest available updates:

**$yum update -y**

1. Install apache and make sure to enable it on startup. Also check its version whether it is as per client’s requirement or not.

**$yum install httpd24**

**$chkconfig httpd on**

**$httpd -v**

1. Install MySQL locally if required by client. Do check with correct version. Disable MySQL root login remotely. Give complicated password and the same should be generated by human only. Do not use any ready made tools to generate new password.

**$yum install mysql mysql-server**

**$mysql\_secure\_installation**

**Set new root password: Y**

**Disallow root login remotely: Y**

**Remove test database and access to it: Y**

**Reload all privileges: Y**

1. Install php along with required php modules. PHP version should be according to client’s requirement. Verify whether php binaries are under /usr/bin/. Also verify whether php working properly or not by adding info.php page under /var/www/html/.

**$yum install php56 php56-mysql php56-gd php56-mbstring php56-mcrypt php56-xml**

1. Apache tweaking: Check mpm.prefork and increase **MaxClient** according RAM available on server. Set “**AllowOverride FileInfo Indexes**” and “**Allow from all**” for document directory. If required install mod\_evasive and mod\_security along with core rule sets. Currently mod\_evasive works with Apache2.2, for Apache2.4 have to built it manually through source code.
2. Check if any unwanted processes are listening on any ports:   
   **netstat -tunlp**. Stop it if not required.
3. Set server time zone to IST:   
   **$ln -sf /usr/share/zoneinfo/Aisa/Kolkata /etc/localtime**
4. Set time stamp for bash history:   
   **$echo 'export HISTTIMEFORMAT="%d/%m/%y %T "' >> ~/.bash\_profile**
5. If it is on premise Linux server then setup firewall.sh. If it is AWS server, make sure that access is restricted at Security Group.
6. If server is behind ELB(Elastic Load Balancer), then change log format for apache logs by adding/replacing below lines in /etc/httpd/conf/httpd.conf file:  
   **LogFormat "%{X-Forwarded-For}i %h %l %u %t \"%r\" %>s %b \"%{Referer}i\" \"%{User-Agent}i\"" combined  
   LogFormat "%{X-Forwarded-For}i %h %l %u %t \"%r\" %>s %b" common**
7. Make sure to restart apache after adding/replacing above lines in httpd.conf or vhost.conf.
8. In case client needs phpMyAdmin: do change phpmyadmin alias with other respective name. Make it run on another port number for security measures.

**$mkdir /var/www/vhosts/dbadmin**

**$cd /var/www/vhosts/dbadmin**

**$wget** [**https://files.phpmyadmin.net/phpMyAdmin/4.7.4/phpMyAdmin-4.7.4-all-languages.zip**](https://files.phpmyadmin.net/phpMyAdmin/4.7.4/phpMyAdmin-4.7.4-all-languages.zip)

**$mv phpMyAdmin-4.7.4-all-languages.zip [phpmyadminalias]**

**$Add below line in /etc/httpd/conf/httpd.conf file  
 Listen 8222**

**$Add below code in /etc/httpd/conf.d/vhosts.conf  
 <VirtualHost \*:8222>**

**ServerName <www.domainname.com>**

**DocumentRoot /var/www/vhosts/dbadmin**

**</VirtualHost>**