

# How to install Apache, PHP and MySQL on CentOS 7 (LAMP)

## 1. Apache

### (1). Install Apache

a. clean-up yum:

```
$ sudo yum clean all
```

b. As a matter of best practice we'll update our packages:

```
$ sudo yum -y update
```

c. Installing Apache is as simple as running just one command:

```
$ sudo yum -y install httpd
```

### (2) Allow Apache Through the Firewall

Allow the default HTTP and HTTPS port, ports 80 and 443, through firewall:

```
$ sudo firewall-cmd --permanent --zone=public --add-port=80/tcp
```

```
$ sudo firewall-cmd --permanent --zone=public --add-port=443/tcp
```

And reload the firewall:

```
$ sudo firewall-cmd --reload
```

### (3) Configure Apache to Start on Boot

And then start Apache:

```
$ sudo systemctl start httpd
```

Be sure that Apache starts at boot:

```
$ sudo systemctl enable httpd
```

To check the status of Apache:

```
$ sudo systemctl status httpd
```

To stop Apache:

```
$ sudo systemctl stop httpd
```

### (4) 此時會出現下列的錯誤訊息：

```
[AvatarHQ@localhost ~]$ apachectl -k restart
Passing arguments to httpd using apachectl is no longer supported.
You can only start/stop/restart httpd using this script.
If you want to pass extra arguments to httpd, edit the
/etc/sysconfig/httpd config file.
AH00558: httpd: Could not reliably determine the server's fully qualified domain name, using localho
st.localdomain. Set the 'ServerName' directive globally to suppress this message
(13)Permission denied: AH00558: Error retrieving pid file /run/httpd/httpd.pid
AH00559: Remove it before continuing if it is corrupted.
[AvatarHQ@localhost ~]$
```

解決方法：

1. 編輯 /etc/httpd/conf/httpd.conf 檔案，將 ServerName 行的註解取消，並給予伺服器網址名稱 (ex: [www.yourwebserver.com](http://www.yourwebserver.com))。

```
$ vi /etc/httpd/conf/httpd.conf for ServerName
#.....
ServerName www.yourwebserver.com:80

# ....
```

2. 編輯 /etc/hosts 檔案，加入伺服器網址名稱和真實 IP 的宣告。

```
$ vi /etc/hosts
127.0.0.1      yourwebserver
x.x.x.x        www.yourwebserver.com ← x.x.x.x 為真實 IP
```

3. Restart httpd.

```
$ systemctl restart httpd.service
```