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**NETWORKING & SYSTEM ADMINISTRATION LAB****Experiment No: 25****Aim**

Setting Up an Apache Container.

**Procedure**

Step 1:

```
$ sudo docker run -dit --name tecmint-web -p 8080:80 -v /home/user/website/:/usr/local/apache2/htdocs/ httpd:2.4
```



```
mca@537:~$ sudo docker run -dit --name tecmint-web -p 8080:80 -v /home/user/website/:/usr/local/apache2/htdocs/ httpd:2.4
[sudo] password for mca:
Unable to find image 'httpd:2.4' locally
2.4: Pulling from library/httpd
214ca5fb9032: Pull complete
7cf31a2eeec6: Pull complete
bf666e57b9f2: Pull complete
c15a4e94ae6b: Pull complete
dc25474c7f97: Pull complete
Digest: sha256:2d1f8839d6127e400ac5f65481d8a0f17ac46a3b91de40b01e649c9a0324dea0
Status: Downloaded newer image for httpd:2.4
c2b0deacbf11f686ce010bba42261bd118c2be4f36d8c149a25d7be57ab8f397
```

Pull Docker Apache Container

At this point, our Apache container should be up and running.

Step 2:

**\$ sudo docker ps**



```
mca@537:~$ sudo docker ps
CONTAINER ID   IMAGE     COMMAND                  CREATED        STATUS        PORTS                               NAMES
c2b0deacbf11   httpd:2.4 "httpd-foreground"      7 minutes ago Up 7 minutes  0.0.0.0:8080->80/tcp, :::8080->80/tcp tecmint-web
```

Check Apache Docker Container

**Step 3:** Now let's create a simple web page named docker.html inside the /home/user/website directory.

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**\$ sudo gedit /home/user/website/docker.html**

Add the following sample HTML content to the file.

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Learn Docker at Tecmint.com</title>

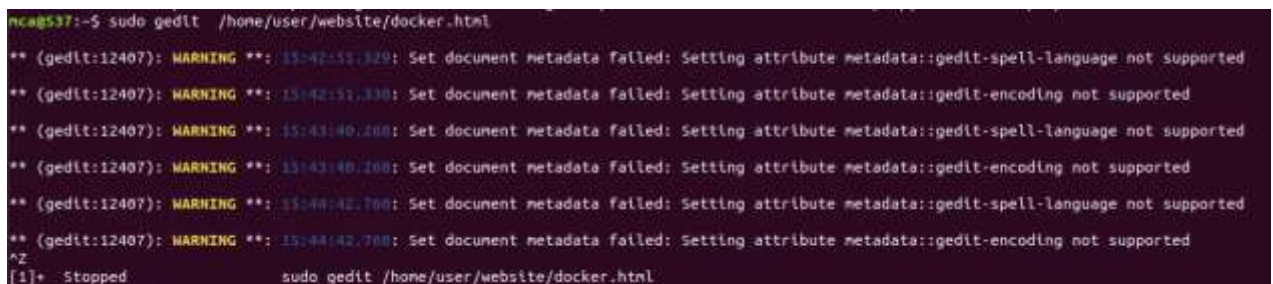
</head>

<body>

    <h1>Learn Docker With Us</h1>

</body>

</html>
```



```
nc@8537:~$ sudo gedit /home/user/website/docker.html
** (gedit:12407): WARNING **: 15:42:51.329: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported
** (gedit:12407): WARNING **: 15:42:51.330: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:12407): WARNING **: 15:43:40.100: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported
** (gedit:12407): WARNING **: 15:43:40.100: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
** (gedit:12407): WARNING **: 15:44:42.700: Set document metadata failed: Setting attribute metadata::gedit-spell-language not supported
** (gedit:12407): WARNING **: 15:44:42.700: Set document metadata failed: Setting attribute metadata::gedit-encoding not supported
^Z
[1]+  Stopped                  sudo gedit /home/user/website/docker.html
```

Step 4: Next, point your browser to **Server-IP:8080/docker.html** (where **Server-IP** is your host's public IP address). You should be presented with the page we created previously.



# Learn Docker With Us

Check Apache Page

Step 5: If you wish, you can now stop the container.

```
$ sudo docker stop tecmint-web
```

```
mca@S37:~$ sudo docker stop tecmint-web  
tecmint-web
```

Step 6: Remove it:

```
$ sudo docker rm tecmint-web
```

```
mca@S37:~$ sudo docker rm tecmint-web  
tecmint-web
```

Step 7: To finish cleaning up, you may want to delete the image that was used in the container (omit this step if you're planning on creating other **Apache 2.4** containers soon).

**\$ sudo docker image remove httpd:2.4**

```
mca@S37:~$ sudo docker image remove httpd:2.4
Untagged: httpd:2.4
Untagged: httpd@sha256:2d1f8839d6127e400ac5f65481d8a0f17ac46a3b91de40b01e649c9a0324dea0
Deleted: sha256:c58ef9bfb5789a9882cee610ba778b1368d21b513d6caf32e3075542e13fe81
Deleted: sha256:312672a18b7ce4fbbaa736a0e87a4a1cef47e3341b50cb3a0c5a865457347c10
Deleted: sha256:d67e67a5fbad035b2603029110722ed2af07c5ae52e741663c2d09cf6cc90e2c
Deleted: sha256:eb38b82c45692bc0a2e14adece681e2673d35f9ee5d047f498d0077d17a3bf68
Deleted: sha256:c21e2c36645f68249254b6d72c2ae0af5c1ba110a92d7b7b05c67ee4705cea49
Deleted: sha256:fd95118eade99a75b949f634a0994e0f0732ff18c2573fabdfc8d4f95b092f0e
```