

Dockers 101 – Series 9 of N – How to setup Apache and NGinx server using docker

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- **Requirement:**
 - Setup Apache and NGinx server using docker
- **Strategy:**
 - First of all create source folders and html files for Apache and NGinx on the host drive so that it is used as mount/volume for the Apache and NGinx containers respectively
 - Use docker run command with -v and -p options to specify the volume and port mapping
 - Test the containers
- **Solution:**
 - Create source folders and html files for Apache and NGinx on the host
 -

```

rootPath=$(pwd)
hostNginxPath="$rootPath/docker/www/nginx"
containerNginxPath="/usr/share/nginx/html"
hostNginxHtml="$rootPath/docker/www/nginx/index.html"
hostHttpdPath="$rootPath/docker/www/httpd"
hostHttpdHtml="$rootPath/docker/www/httpd/index.html"
containerHttpdPath="/usr/local/apache2/htdocs"

```

```

test -d $hostNginxPath && echo "$hostNginxPath exists, continuing..." || echo "$hostNginxPath
does not exist, creating..." && mkdir -p $hostNginxPath
echo "

```

```

<html>
<head>
<title>Custom test page – My NGinx Server... </title>
</head>
<body>
<hr/>
<h1>This is a custom test page from My NGinx Server...</h1>
<hr/>
</body>
</html>
" > $hostNginxHtml
cat $hostNginxHtml

```

```

test -d $hostHttpdPath && echo "$hostHttpdPath exists, continuing..." || echo "$hostHttpdPath
does not exist, creating..." && mkdir -p $hostHttpdPath
echo "

```

```

<html>
<head>
<title>Custom test page – My Httpd Server... </title>
</head>
<body>
<hr/>
<h1>This is a custom test page from My Httpd Server...</h1>
<hr/>
</body>
</html>
" > $hostHttpdHtml
cat $hostHttpdHtml

```

- Use docker run command with -v and -p options

- - docker stop \$(docker ps -a -q)
 - docker rm \$(docker ps -a -q)
 - docker rmi \$(docker images -q)
 - docker run -d --name mynginxserver -p 8080:80 -v \$hostNginxPath:\$containerNginxPath nginx:latest
 - docker exec mynginxserver cat \$containerNginxPath/index.html
 - docker run -d --name myhttpdsrvr -p 8090:80 -v \$hostHttpdPath:\$containerHttpdPath httpd:latest
 - docker exec myhttpdsrvr cat \$containerHttpdPath/index.html

- Test the containers
 - `curl http://localhost:8080 (http://localhost:8080)`
 - `curl http://localhost:8090 (http://localhost:8090)`

docker images

```
[user@mnaseemiddiqui5 ~]$ curl http://localhost:8080
<html>
<head>
<title>Custom test page - My NGinx Server... </title>
</head>
<body>
<hr/>
<h1>This is a custom test page from My NGinx Server...</h1>
<hr/>
</body>
</html>

[user@mnaseemiddiqui5 ~]$ curl http://localhost:8090
<html>
<head>
<title>Custom test page - My Httpd Server... </title>
</head>
<body>
<hr/>
<h1>This is a custom test page from My Httpd Server...</h1>
<hr/>
</body>
</html>

[user@mnaseemiddiqui5 ~]$
[user@mnaseemiddiqui5 ~]$ docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
nginx                latest             cd5239a0906a       26 hours ago       100MB
httpd                latest             fb2f3851a571       5 weeks ago        177MB

[user@mnaseemiddiqui5 ~]$ docker ps -a
CONTAINER ID        IMAGE               COMMAND             CREATED             STATUS              PORTS               NAMES
3c55680ca6d2       httpd:latest       "httpd -foreground" 1 second ago        Up Less than a second    0.0.0.0:8090->80/tcp    myhttpdserver
87371acec215       nginx:latest       "nginx -g 'daemon ..." 10 seconds ago      Up 9 seconds         0.0.0.0:8080->80/tcp    mynginxserver
```

docker ps -a

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