Module-6: Containerization using Docker Part - I

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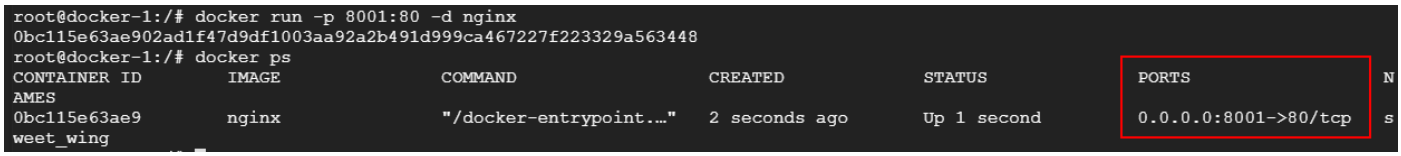
DEMO-2: Port Binding

Note: All commands are executed as root.

1. To start a container with its port exposed to one of host ports:

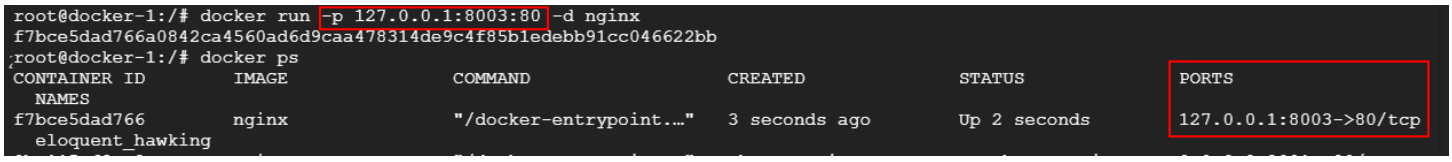
```
$ docker run -p <hostPort>:<containerPort> -d <imageName>

# check the container id and the port it is exposed on

$ docker ps
```



2. To start a container with its port exposed to a specific IP

```
$ docker run -p <IP>:<hostPort>:<containerPort> -d <imageName>
```

Note: To assign a particular Host IP to a container the Host network driver is required. This will be taught in a later module. For this example we will expose the container on the localhost i.e. 127.0.0.1



3. To verify if the container has been deployed on the said port we can curl the exposed port:

```
$ curl <IP>:<hostPort>
```

```
root@docker-1:/# curl 127.0.0.1:8003
<!DOCTYPE html>
<html>
<head>
<title>Welcome to nginx!</title>
<style>
    body {
        width: 35em;
        margin: 0 auto;
        font-family: Tahoma, Verdana, Arial, sans-serif;
    }
</style>
</head>
<body>
<h1>Welcome to nginx!</h1>
<p>If you see this page, the nginx web server is successfully installed and
working. Further configuration is required.</p>

<p>For online documentation and support please refer to
<a href="http://nginx.org/">nginx.org</a>.<br/>
Commercial support is available at
<a href="http://nginx.com/">nginx.com</a>.</p>

<p><em>Thank you for using nginx.</em></p>
</body>
</html>
```