

Lab - Port Mapping

Part 1 — Run Nginx without port mapping (host curl should fail)

```
azureuser@vijaya-docker:~$ sudo docker container ls -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
eead263f2cc5	ubuntu	"/bin/bash"	8 minutes ago	Up 8 minutes		web-nomap

```
root@eead263f2cc5:/# curl -s http://localhost | head -n1
```

<h1>Hello from INSIDE the container (no mapping)</h1>

```
azureuser@vijaya-docker:~$ curl -v http://localhost
```

* Host localhost:80 was resolved.
* IPv6: ::1
* IPv4: 127.0.0.1
* Trying [::1]:80...
* connect to ::1 port 80 from ::1 port 58566 failed: Connection refused
* Trying 127.0.0.1:80...
* connect to 127.0.0.1 port 80 from 127.0.0.1 port 60806 failed: Connection refused
* Failed to connect to localhost port 80 after 0 ms: Couldn't connect to server
* Closing connection
curl: (7) Failed to connect to localhost port 80 after 0 ms: Couldn't connect to server

```
azureuser@vijaya-docker:~$ sudo docker rm -f web-nomap
```

web-nomap

Part 2 — Run Nginx with port mapping (host curl should work)

```
azureuser@vijaya-docker:~$ sudo docker container ls -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
38beb38b6c1d	ubuntu	"/bin/bash"	12 seconds ago	Up 11 seconds	0.0.0.0:8080->80/tcp, [::]:8080->80/tcp	web-mapped

```
azureuser@vijaya-docker:~$ sudo docker exec web-mapped curl -s http://localhost | head -n1
```

<h1>Hello from a mapped port (8080->80)</h1>

```
azureuser@vijaya-docker:~$ sudo docker rm -f web-mapped
```

web-mapped