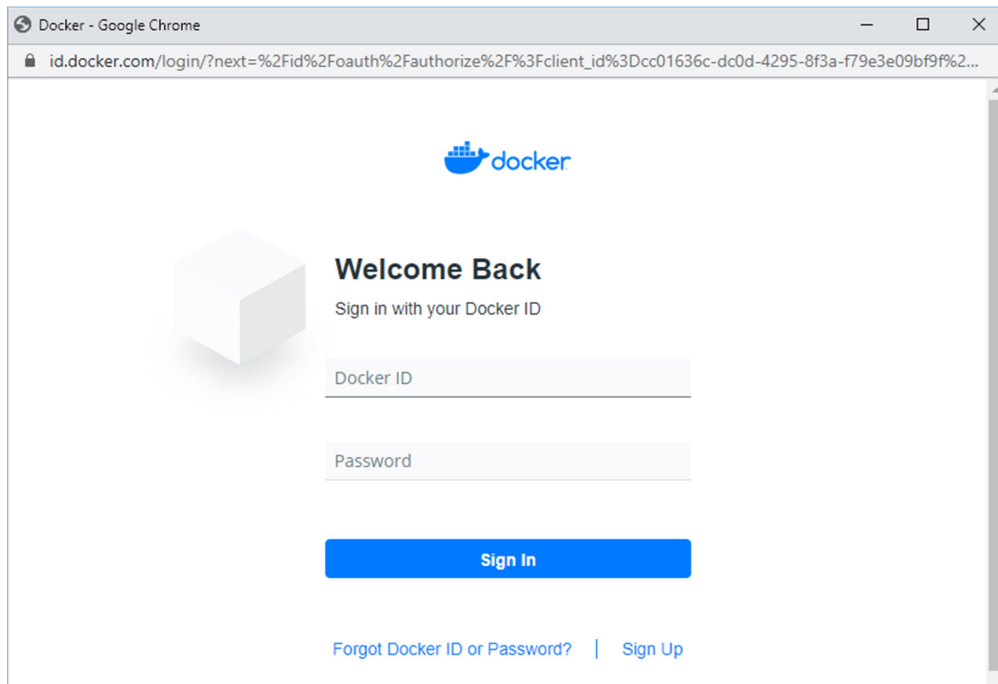


## Practical 9 (Backing Services)

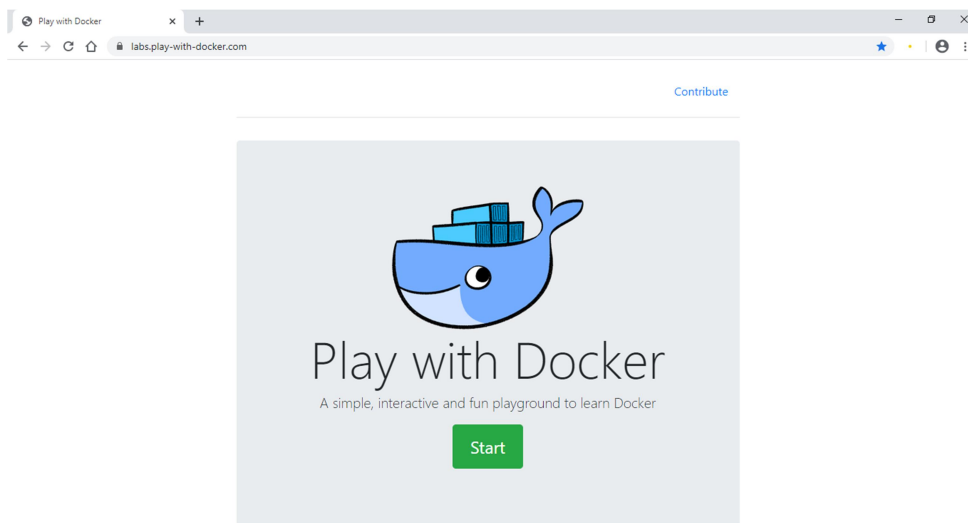
### Running Location Service in Docker

(create docker hub login first to use it in play with docker)

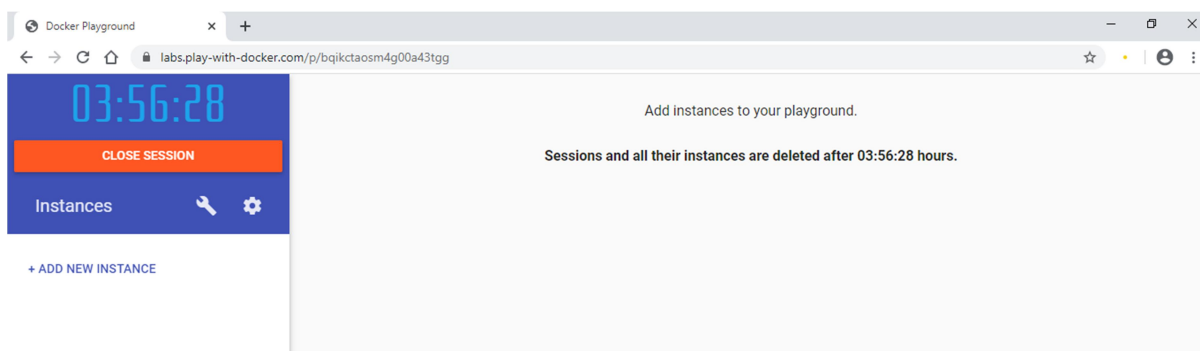
Now login in to Play-With-Docker

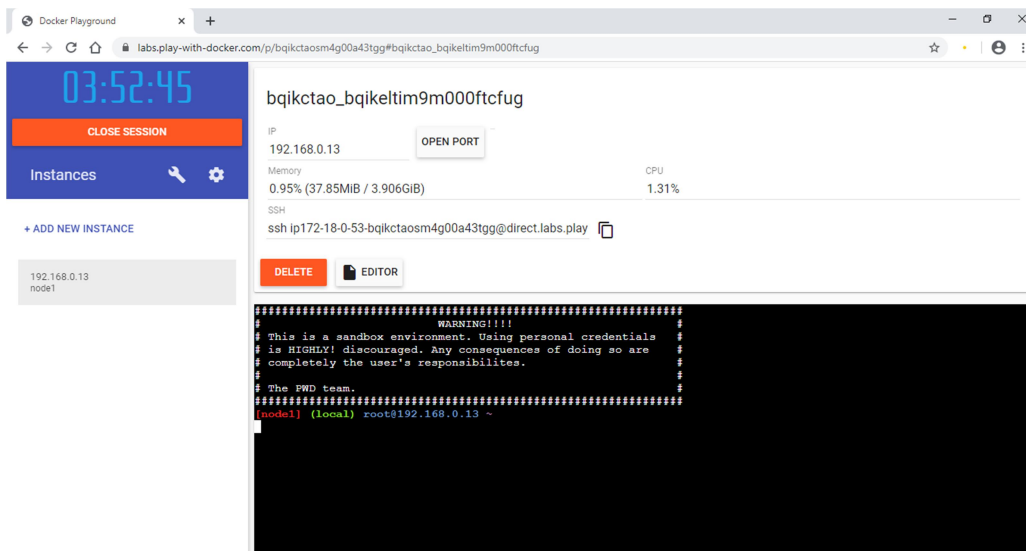


Click on Start



Click on Add New Instance





Start typing following commands

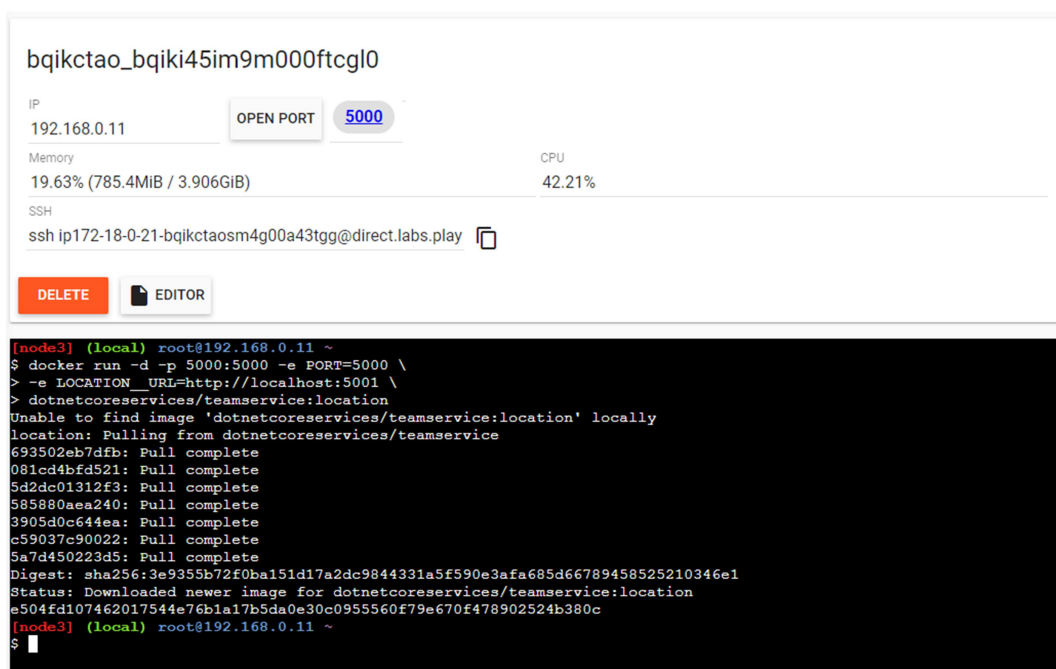
**Command : To run teamservice**

`docker run -d -p 5000:5000 -e PORT=5000 \`

`-e LOCATION__URL=http://localhost:5001 \`

`dotnetcoreservices/teamservice:location`

**output: (you can observe that it has started port 5000 on top)**



**Command: to run location service**

`docker run -d -p 5001:5001 -e PORT=5001 \`

`dotnetcoreservices/locationservice:nodb`

output: (now it has started one more port that is 5001 for location service)

IP  
192.168.0.11

OPEN PORT  
5001 5000

Memory  
7.09% (283.6MiB / 3.906GiB)

CPU  
1.19%

SSH  
ssh ip172-18-0-21-bqikctaosm4g00a43tgg@direct.labs.play

DELETE EDITOR

Command : to check running images in docker

docker images

output:

```
[node3] (local) root@192.168.0.11 ~
$ docker images
REPOSITORY                TAG                IMAGE ID           CREATED           SIZE
dotnetcoreservices/teamservice  location          b27d0de8f2de      3 years ago      886MB
dotnetcoreservices/locationservice  nodb              03339f0ea9dd      3 years ago      883MB
[node3] (local) root@192.168.0.11 ~
$
```

Command: to create new team

curl -H "Content-Type:application/json" -X POST -d \

'{"id":"e52baa63-d511-417e-9e54-7aab04286281","name":"KC"}' <http://localhost:5000/teams>

Output:

```
[node3] (local) root@192.168.0.11 ~
$ curl -H "Content-Type:application/json" -X POST -d \
> '{"id":"e52baa63-d511-417e-9e54-7aab04286281","name":"KC"}' http://localhost:5000/teams
{"name":"KC","id":"e52baa63-d511-417e-9e54-7aab04286281","members":[]} [node3] (local) root@192.168.0.11 ~
$
```

**Command :**To confirm that team is added

curl http://localhost:5000/teams/e52baa63-d511-417e-9e54-7aab04286281

**Output**

```
[node3] (local) root@192.168.0.11 ~
$ curl -H "Content-Type:application/json" -X POST -d \
> '{"id":"e52baa63-d511-417e-9e54-7aab04286281", "name":"KC"}' http://localhost:5000/teams
{"name":"KC","id":"e52baa63-d511-417e-9e54-7aab04286281","members":[]} [node3] (local) root@192.168.0.11 ~
$ curl http://localhost:5000/teams/e52baa63-d511-417e-9e54-7aab04286281
{"name":"KC","id":"e52baa63-d511-417e-9e54-7aab04286281","members":[]} [node3] (local) root@192.168.0.11 ~
$
```

**Command :** to add new member to team

curl -H "Content-Type:application/json" -X POST -d \

'{"id":"63e7acf8-8fae-42ce-9349-3c8593ac8292", "firstName":"Kirti", "lastName":"Bhatt"}'
http://localhost:5000/teams/e52baa63-d511-417e-9e54-7aab04286281/members

**Output:**

```
[node1] (local) root@192.168.0.23 ~
$ curl -H "Content-Type:application/json" -X POST -d \
> '{"id":"63e7acf8-8fae-42ce-9349-3c8593ac8292", "firstName":"Kirti", "lastName":"Bhatt"}' http://localhost:5000/
teams/e52baa63-d511-417e-9e54-7aab04286281/members
{"teamID":"e52baa63-d511-417e-9e54-7aab04286281","memberID":"63e7acf8-8fae-42ce-9349-3c8593ac8292"} [node1] (local
) root@192.168.0.23 ~
$
```

**Command :**To confirm member added

curl <http://localhost:5000/teams/e52baa63-d511-417e-9e54-7aab04286281>

**output:**

```
[node1] (local) root@192.168.0.23 ~
$ curl http://localhost:5000/teams/e52baa63-d511-417e-9e54-7aab04286281
{"name":"KC","id":"e52baa63-d511-417e-9e54-7aab04286281","members":[null,{"id":"63e7acf8-8fae-42ce-9349-3c8593ac8
292","firstName":"Kirti","lastName":"Bhatt"}]} [node1] (local) root@192.168.0.23 ~
$
```

**Command :** To add location for member

curl -H "Content-Type:application/json" -X POST -d \

'{"id":"64c3e69f-1580-4b2f-a9ff-2c5f3b8f0e1f", "latitude":12.0,"longitude":12.0,"altitude":10.0,
"timestamp":0,"memberId":"63e7acf8-8fae-42ce-9349-3c8593ac8292"}' <http://localhost:5001/locations/63e7acf8-8fae-42ce-9349-3c8593ac8292>

## Output:

```
[node1] (local) root@192.168.0.23 ~
$ curl -H "Content-Type:application/json" -X POST -d \
> '{"id":"64c3e69f-1580-4b2f-a9ff-2c5f3b8f0e1f", "latitude":12.0,"longitude":12.0,"altitude":10.0, "timestamp":0,
"memberId":"63e7acf8-8fae-42ce-9349-3c8593ac8292"}' http://localhost:5001/locations/63e7acf8-8fae-42ce-9349-3c859
3ac8292
{"id":"64c3e69f-1580-4b2f-a9ff-2c5f3b8f0e1f","latitude":12.0,"longitude":12.0,"altitude":10.0,"timestamp":0,"memb
erID":"63e7acf8-8fae-42ce-9349-3c8593ac8292"} [node1] (local) root@192.168.0.23 ~
$
```

**Command :** To confirm location is added in member

curl <http://localhost:5001/locations/63e7acf8-8fae-42ce-9349-3c8593ac8292>

## output:

```
[node1] (local) root@192.168.0.23 ~
$ curl http://localhost:5001/locations/63e7acf8-8fae-42ce-9349-3c8593ac8292
[{"id":"64c3e69f-1580-4b2f-a9ff-2c5f3b8f0e1f","latitude":12.0,"longitude":12.0,"altitude":10.0,"timestamp":0,"mem
berID":"63e7acf8-8fae-42ce-9349-3c8593ac8292"}] [node1] (local) root@192.168.0.23 ~
$
```