

Assignment - 4

Assignment Date	22 October 2022
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Maximum Marks	2 Marks

Question:

Pull an Image from docker hub and run it in docker playground.

Solution:

Step-1: go-to labs.play-with-docker.com



Step-2: Login using docker hub account & create new instance

```
#####  
# WARNING!!!! #  
# This is a sandbox environment. Using personal credentials #  
# is HIGHLY! discouraged. Any consequences of doing so are #  
# completely the user's responsibilities. #  
# #  
# The PWD team. #  
#####  
(node1) (local) root@192.168.0.8 ~  
$ docker version  
Client:  
Version:      20.10.17  
API version:  1.41  
Go version:   go1.17.11  
Git commit:   100c701  
Built:        Mon Jun 6 22:56:42 2022  
OS/Arch:      linux/amd64  
Context:      default  
Experimental: true  
Server: Docker Engine - Community  
Engine:
```

Step-3: pull docker/getting-started from docker hub using `` docker pull docker/getting-started ``

```
[node1] (local) root@192.168.0.8 ~
$ docker pull docker/getting-started
Using default tag: latest
latest: Pulling from docker/getting-started
df9b9388f04a: Pull complete
5867cba5fcbd: Pull complete
4b639e65cb3b: Pull complete
061ed9e2b976: Pull complete
bc19f3e8eeb1: Pull complete
4071be97c256: Pull complete
79b586f1a54b: Pull complete
0c9732f525d6: Pull complete
Digest: sha256:b558be874169471bd4e65bd6eac8c303b271a7ee8553ba47481b73b2bf597aae
Status: Downloaded newer image for docker/getting-started:latest
docker.io/docker/getting-started:latest
```

Step-4: run docker/getting-started using ``docker run -d -p 80:80 docker/getting-started ``

```
[node1] (local) root@192.168.0.8 ~
$ docker run -d -p 80:80 docker/getting-started
e72f4f210616fb8853e62e2f789a96a4fdbf46954df3e14e000aced037e6a6ed
[node1] (local) root@192.168.0.8 ~
```

Step-5: open the port

The screenshot shows the Direct Labs interface. On the left, there's a sidebar with a clock showing 03:52:40, a 'CLOSE SESSION' button, and an 'Instances' section. Below that, there's a '+ ADD NEW INSTANCE' button and a list of instances, including '192.168.0.8 node1'. The main panel shows details for the instance 'cd95hcm0_cd95hcm0' with IP '192.168.0.8'. It includes a 'Memory' and 'CPU' section, an 'SSH' section with a terminal icon, and a 'DELETE' button. A modal dialog is open, asking 'What port would you like to open?' with '80' entered. Below the modal, there's an 'EDITOR' button. At the bottom, there's a terminal window showing the command 'docker pull docker/getting-started'.

Output:

The screenshot shows the 'Getting Started' page on the dockerLabs website. The page has a dark theme and a blue header. The main content area is titled 'Getting Started' and contains the text 'The command you just ran'. Below this, it says 'Congratulations! You have started the container for this tutorial! Let's first explain the command that you just ran. In case you forgot, here's the command:'. The command is shown in a code block: `docker run -d -p 80:80 docker/getting-started`. Below the command, it says 'You'll notice a few flags being used. Here's some more info on them:'. There are three bullet points:

- `-d` - run the container in detached mode (in the background)
- `-p 80:80` - map port 80 of the host to port 80 in the container
- `docker/getting-started` - the image to use

 There is a 'Pro tip' section with a blue background and a white icon. It says 'You can combine single character flags to shorten the full command. As an example, the command above could be written as:'. Below this, the command is shown in a code block: `docker run -dp 80:80 docker/getting-started`. On the right side, there is a 'Table of contents' section with links to 'The command you just ran', 'The Docker Dashboard', 'What is a container?', and 'What is a container image?'. On the left side, there is a 'Getting Started' section with links to 'Getting Started', 'Our Application', 'Updating our App', 'Sharing our App', 'Persisting our DB', 'Using Bind Mounts', 'Multi-Container Apps', 'Using Docker Compose', 'Image Building Best Practices', and 'What Next?'.

