

Practical no: 5

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Batch-Roll no: C1-13

Subject: Introduction to Cloud Security Lab

Date of Execution: 09/03/2024

Aim: Open Ended: Implement container management with Kubernetes/Docker

The screenshot displays the Docker Playground web interface. On the left sidebar, there is a digital clock showing 03:28:34, a 'CLOSE SESSION' button, and a section for 'Instances' with a '+ ADD NEW INSTANCE' button. Below the instances list, there is a 'GIVE FEEDBACK' link. The main panel shows details for a container named 'cnm257i9_cnm25aq91nsg00blkdg0'. It lists the IP address as 192.168.0.13, memory usage as 1.70% (67.97MiB / 3.906GiB), and CPU usage as 0.52%. An 'OPEN PORT' button is visible. Below these details is an SSH command: 'ssh ip172-18-0-54-cnm257i91nsg00blkdf0@direct.labs.play'. At the bottom of the main panel, there are 'DELETE' and 'EDITOR' buttons. The terminal window at the bottom shows a warning message, followed by a command to run 'hello-world' using Docker. The output indicates that the image was pulled from the library and is now running. The terminal also shows the Docker version and the status of the installation.

```
#####  
# 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@192.168.0.13 ~  
$ docker container run hello-world  
Unable to find image 'hello-world:latest' locally  
latest: Pulling from library/hello-world  
c1ec31eb5944: Pull complete  
Digest: sha256:d000bc569937abbe195e20322a0bde6b2922d805332fd6d8a68b19f524b7d21d  
Status: Downloaded newer image for hello-world:latest  
  
Hello from Docker!  
This message shows that your installation appears to be working correctly.
```

03:27:58

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.13
node1

GIVE FEEDBACK

cnm257i9_cnm25aq91nsg00blkdg0

IP
192.168.0.13

OPEN PORT

Memory
1.70% (68.02MiB / 3.906GiB)

CPU
0.76%

SSH
ssh ip172-18-0-54-cnm257i91nsg00blkdf0@direct.labs.play

DELETE

EDITOR

To generate this message, Docker took the following steps:

1. The Docker client contacted the Docker daemon.
2. The Docker daemon pulled the "hello-world" image from the Docker Hub.
(amd64)
3. The Docker daemon created a new container from that image which runs the executable that produces the output you are currently reading.
4. The Docker daemon streamed that output to the Docker client, which sent it to your terminal.

To try something more ambitious, you can run an Ubuntu container with:

```
$ docker run -it ubuntu bash
```

Share images, automate workflows, and more with a free Docker ID:
<https://hub.docker.com/>

For more examples and ideas, visit:
<https://docs.docker.com/get-started/>

Tomorrow's high
Near record

Search

ENG
IN

14:51
09-03-2024

03:27:35

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.13
node1

GIVE FEEDBACK

cnm257i9_cnm25aq91nsg00blkdg0

IP
192.168.0.13

OPEN PORT

Memory
1.70% (68.05MiB / 3.906GiB)

CPU
0.32%

SSH
ssh ip172-18-0-54-cnm257i91nsg00blkdf0@direct.labs.play

DELETE

EDITOR

```
https://docs.docker.com/get-started/

[node1] (local) root@192.168.0.13 ~
$ docker image pull alpine
Using default tag: latest
latest: Pulling from library/alpine
4abcf2066143: Pull complete
Digest: sha256:c5b1261d6d3e43071626931fc004f70149baeba2c8ec672bd4f27761f8e1ad6b
Status: Downloaded newer image for alpine:latest
docker.io/library/alpine:latest
[node1] (local) root@192.168.0.13 ~
$ docker image ls
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
alpine        latest   05455a08881e   6 weeks ago   7.38MB
hello-world   latest   d2c94e258dcb   10 months ago 13.3kB
[node1] (local) root@192.168.0.13 ~
$ docker container run alpine ls -l
bin
```

Tomorrow's high
Near record

Search

ENG
IN

14:51
09-03-2024

03:27:04

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.13
node1

GIVE FEEDBACK

cnm257i9_cnm25aq91nsg00blkdg0

IP
192.168.0.13

OPEN PORT

Memory
1.70% (68.06MiB / 3.906GiB)

CPU
0.92%

SSH
ssh ip172-18-0-54-cnm257i91nsg00blkdf0@direct.labs.play

DELETE

EDITOR

```
dev
etc
home
lib
media
mnt
opt
proc
root
run
sbin
srv
sys
tmp
usr
var
[node1] (local) root@192.168.0.13 ~
$ docker container run alpine echo "hello from alpine"
```

Tomorrow's high
Near record

Search

ENG
IN

14:52
09-03-2024

03:26:25

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.13
node1

GIVE FEEDBACK

cnm257i9_cnm25aq91nsg00blkdg0

IP
192.168.0.13

OPEN PORT

Memory
1.70% (68.14MiB / 3.906GiB)

CPU
0.64%

SSH
ssh ip172-18-0-54-cnm257i91nsg00blkdf0@direct.labs.play

DELETE

EDITOR

```
hello from alpine
[node1] (local) root@192.168.0.13 ~
$ docker container run alpine /bin/sh
[node1] (local) root@192.168.0.13 ~
$ docker container run -it alpine /bin/sh
/ # echo "hello world" > hello.txt
/ # ls
bin      hello.txt  media      proc       sbin       tmp
dev      home      mnt        root       srv        usr
etc      lib       opt        run        sys        var
/ # exit
[node1] (local) root@192.168.0.13 ~
$ docker container run alpine ls
bin
dev
etc
home
lib
```

35°C
Sunny

Search

ENG
IN

14:53
09-03-2024

03:25:46

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.13
node1

GIVE FEEDBACK

cnm257i9_cnm25aq91nsg00blkdg0

IP
192.168.0.13

OPEN PORT

Memory
1.68% (67.06MiB / 3.906GiB)

CPU
0.17%

SSH
ssh ip172-18-0-54-cnm257i91nsg00blkd0@direct.labs.play

DELETE

EDITOR

media
mnt
opt
proc
root
run
sbin
srv
sys
tmp
usr
var
[node1] (local) root@192.168.0.13 ~
\$ docker container ls -a

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAME
s2ed22a3269f0	alpine	"ls"	17 seconds ago	Exited (0) 15 seconds ago		cran
ky_gauss						

35°C
Sunny

Search

ENG
IN

14:53
09-03-2024

03:25:34

CLOSE SESSION

Instances

+ ADD NEW INSTANCE

192.168.0.13
node1

GIVE FEEDBACK

cnm257i9_cnm25aq91nsg00blkdg0

IP
192.168.0.13

OPEN PORT

Memory
1.68% (67.07MiB / 3.906GiB)

CPU
0.42%

SSH
ssh ip172-18-0-54-cnm257i91nsg00blkd0@direct.labs.play

DELETE

EDITOR

ky_gauss
56037a90c7a7 alpine "/bin/sh" 2 minutes ago Exited (0) 33 seconds ago unru
ffled lederberg
18146842af01 alpine "/bin/sh" 2 minutes ago Exited (0) 2 minutes ago ecst
atic_pare
82f07d8267ea alpine "echo 'hello from al-" 3 minutes ago Exited (0) 2 minutes ago wiza
rdly_benz
dd825acb9157 alpine "ls -l" 3 minutes ago Exited (0) 3 minutes ago eleg
ant_spence
54c38ca56831 hello-world "/hello" 4 minutes ago Exited (0) 4 minutes ago thir
sty_spence
[node1] (local) root@192.168.0.13 ~
\$ docker conatiner start 54c38ca56831
docker: 'conatiner' is not a docker command.
See 'docker --help'
[node1] (local) root@192.168.0.13 ~
\$ docker container start 54c38ca56831
54c38ca56831

35°C
Sunny

Search

ENG
IN

14:54
09-03-2024