Practical no: 5

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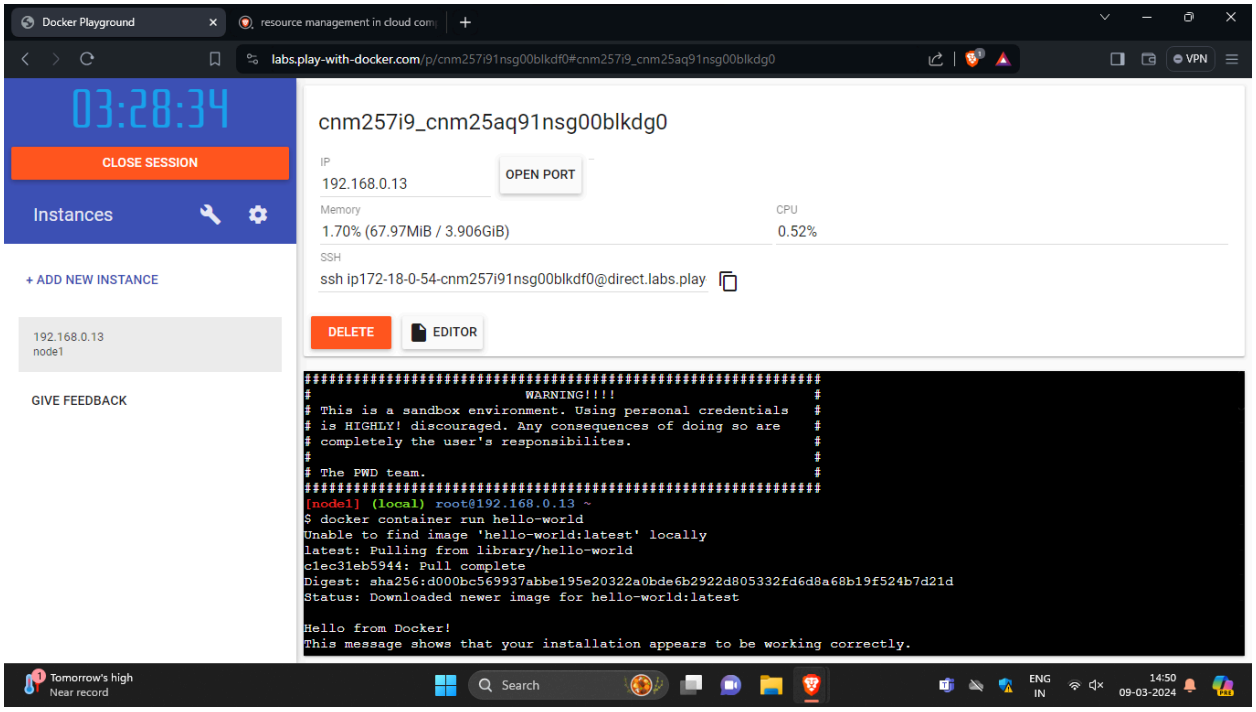
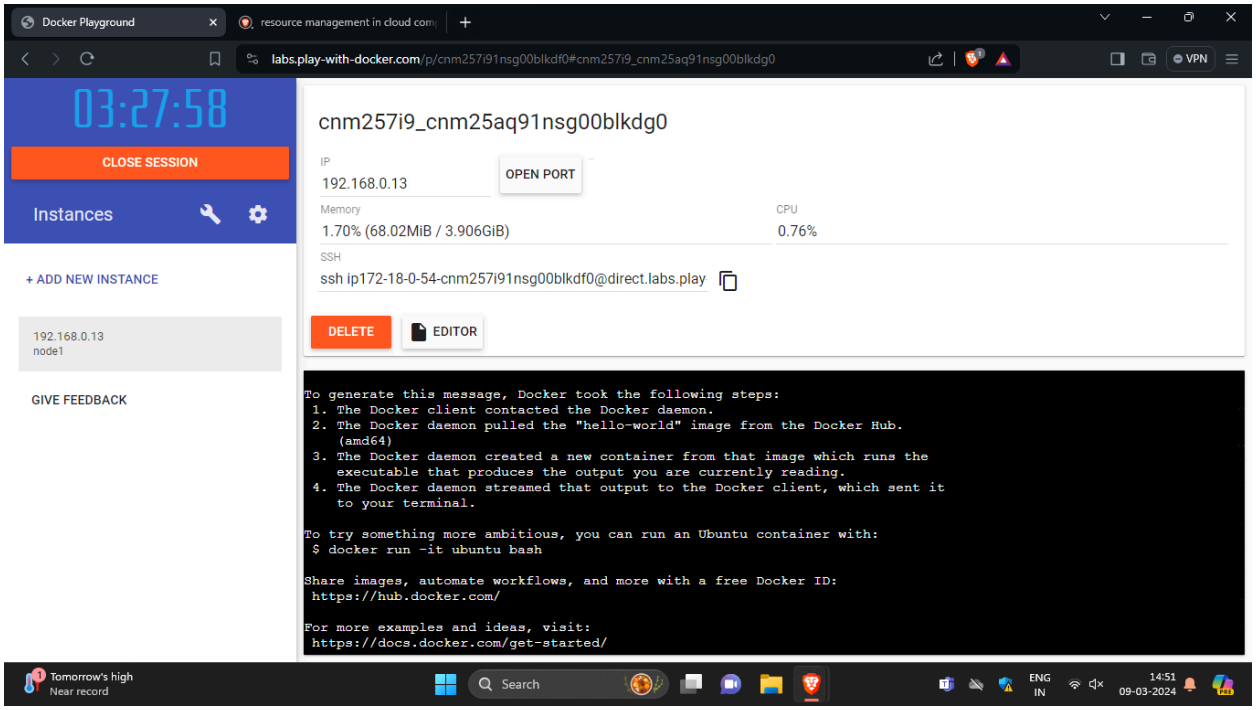
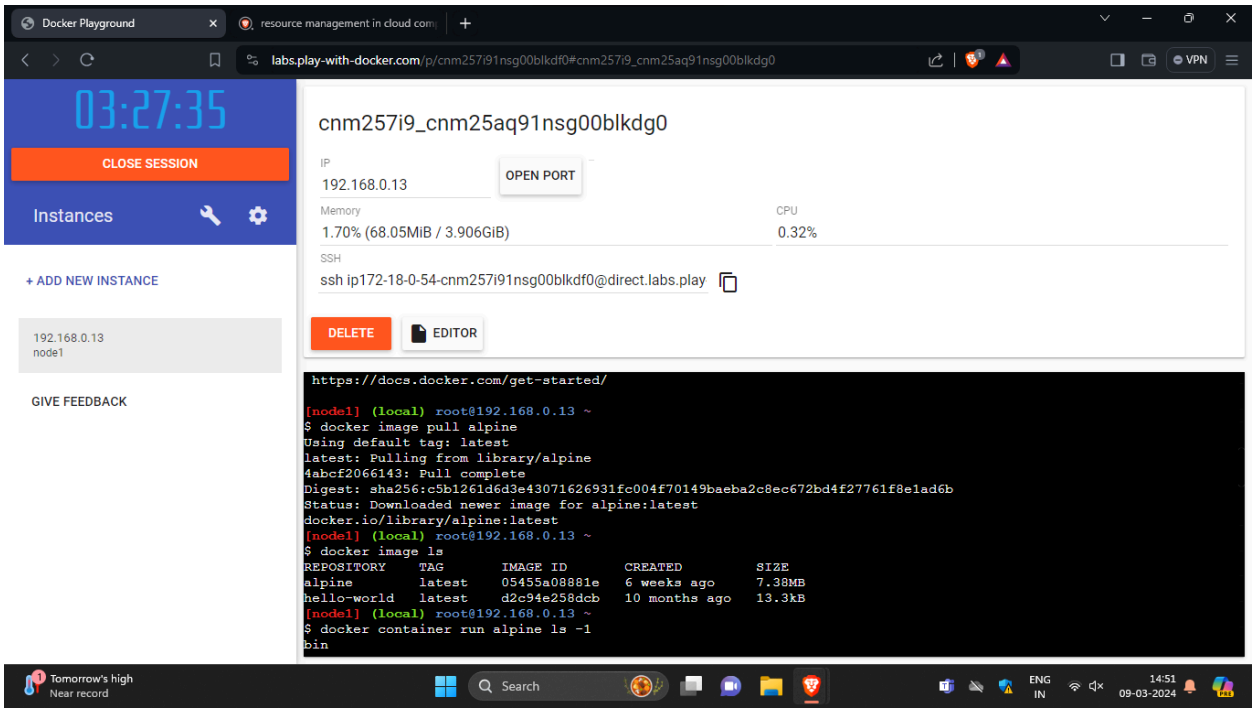
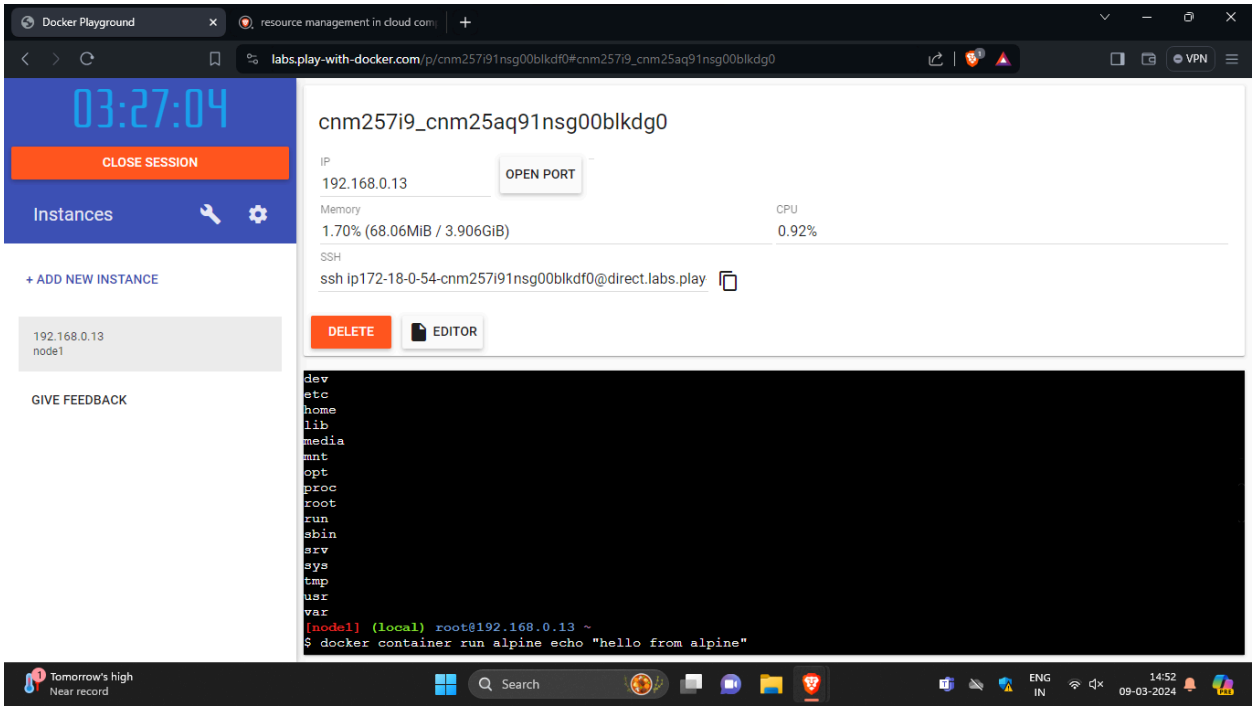
Batch-Roll no: C1-13
Subject: Introduction to Cloud Security Lab
Date of Execution: 09/03/2024

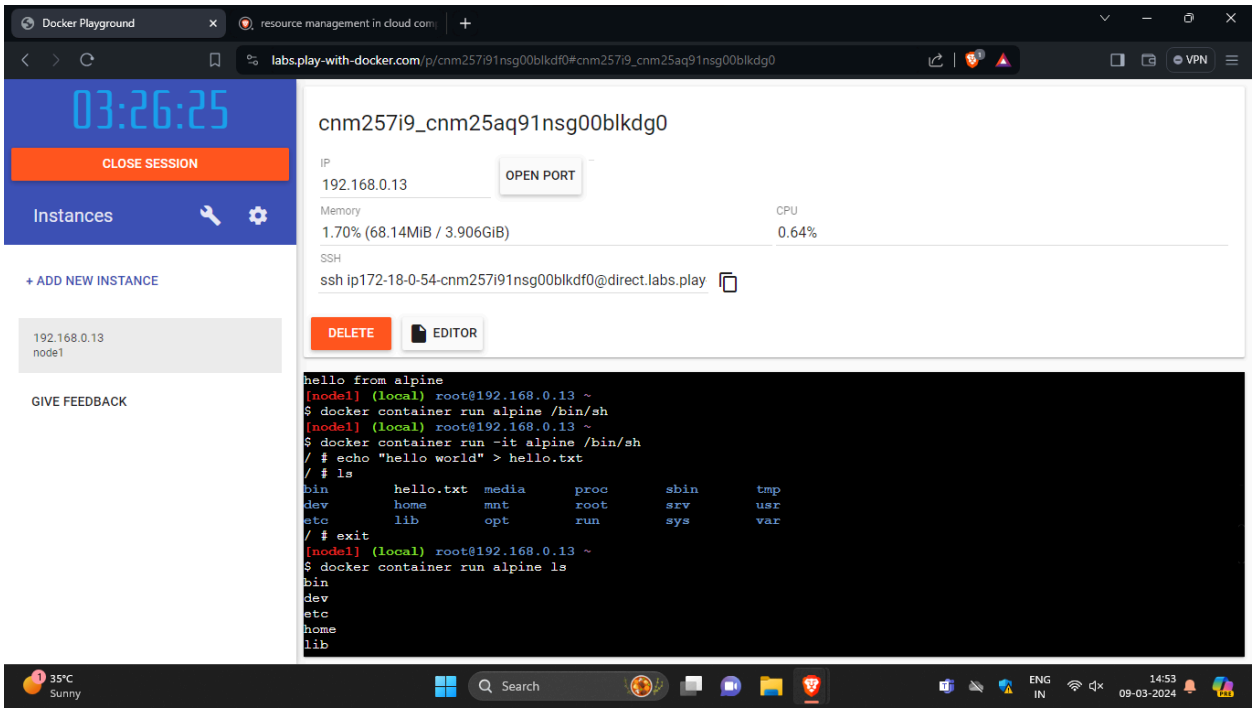
Aim: Open Ended: Implement container management with Kubernetes/Docker

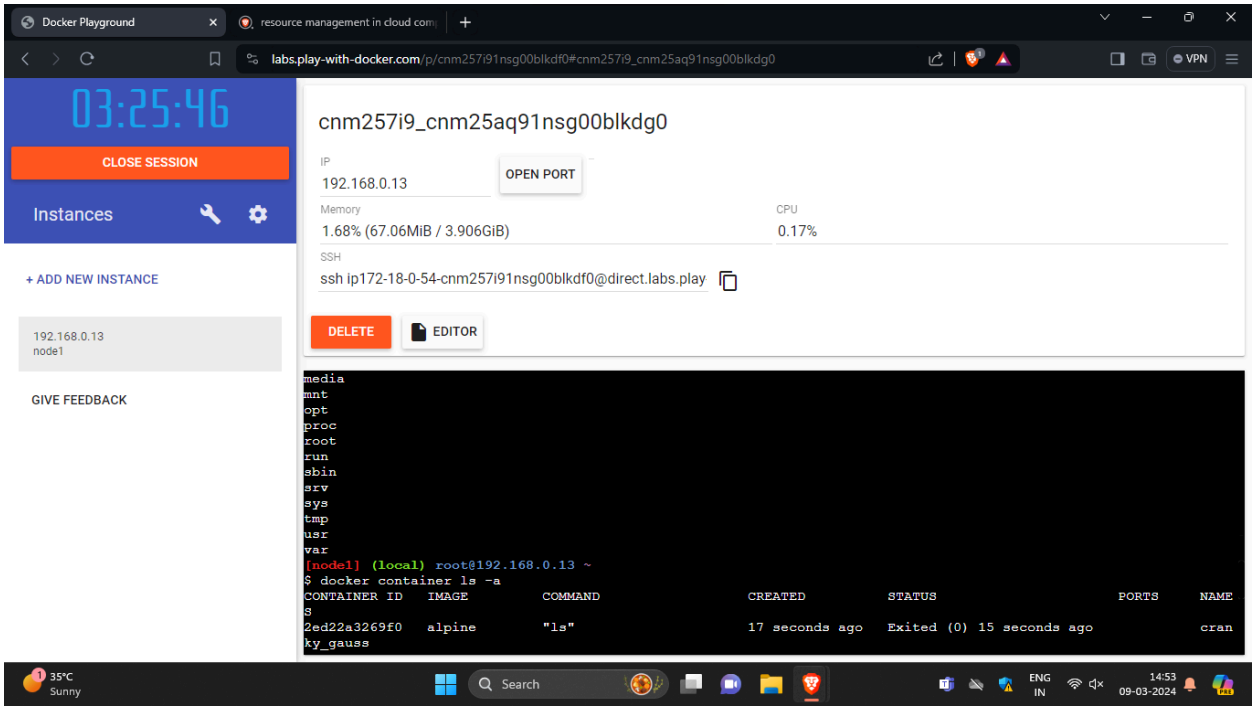


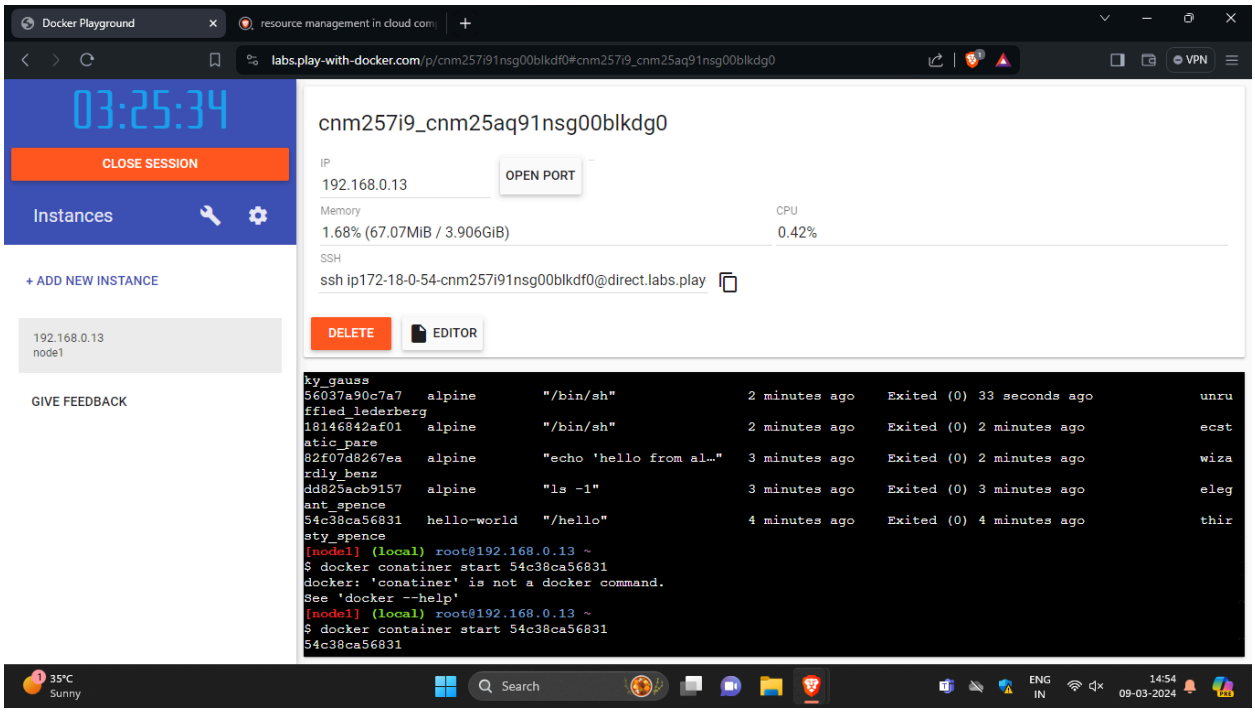

Docker Playground
resource management in cloud com
labs.play-with-docker.com/p/cnm257i91nsg00blkdf0#cnm257i9_cnm25aq91nsg00blkdg0
VPN
03:27:58
CLOSE SESSION
Instances
+ ADD NEW INSTANCE
192.168.0.13
node1
GIVE FEEDBACK
cnm257i9_cnm25aq91nsg00blkdg0
IP
192.168.0.13
OPEN PORT
Memory
1.70% (68.02MiB / 3.906GiB)
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


Docker Playground
resource management in cloud com
labs.play-with-docker.com/p/cnm257i91nsg00blkdf0#cnm257i9_cnm25aq91nsg00blkdg0
VPN
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 -1
bin
Tomorrow's high
Near record
Search
ENG
IN
14:51
09-03-2024


Docker Playground
resource management in cloud com
labs.play-with-docker.com/p/cnm257i91nsg00blkdf0#cnm257i9_cnm25aq91nsg00blkdg0
VPN
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


Docker Playground
resource management in cloud com
labs.play-with-docker.com/p/cnm257i91nsg00blkdf0#cnm257i9_cnm25aq91nsg00blkdg0
VPN
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


Docker Playground
resource management in cloud com
labs.play-with-docker.com/p/cnm257i91nsg00blkdf0#cnm257i9_cnm25aq91nsg00blkdg0
VPN
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-cnm257i91nsg00blkdf0@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
S
2ed22a3269f0 alpine "ls" 17 seconds ago Exited (0) 15 seconds ago cran
ky_gauss
35°C
Sunny
Search
ENG
IN
14:53
09-03-2024


Docker Playground
resource management in cloud com
labs.play-with-docker.com/p/cnm257i91nsg00blkdf0#cnm257i9_cnm25aq91nsg00blkdg0
VPN
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-cnm257i91nsg00blkdf0@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 -1" 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