



Lab 6

Portable Technologies in Cloud

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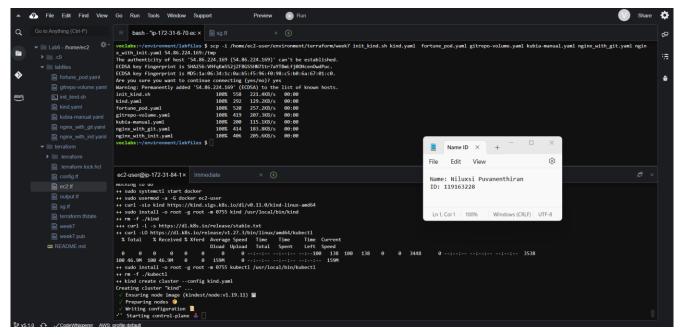
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WEEK 7 - LAB 6

Workshop 1 - Using EMPTYDIR volume to share data between containers in the Pod



Screenshot 1 Created instance and deployed cluster



Screenshot 2 Created namespace



Screenshot 3 pod was accessed via port forwarding

```
/ # cat /usr/share/nginx/html/index.html

Having nothing, nothing can he lose.

-- William Shakespeare, "Henry VI"

/ # cat /usr/share/nginx/html/index.html

You're currently going through a difficult transition period called "Life."

/ # vi /usr/share/nginx/html/index.html

/ # Vi /usr/share/nginx/html/index.html
```

Screenshot 4 attached shell to web-server container inside fortune pod

Screenshot 5 tried updating the index.html file

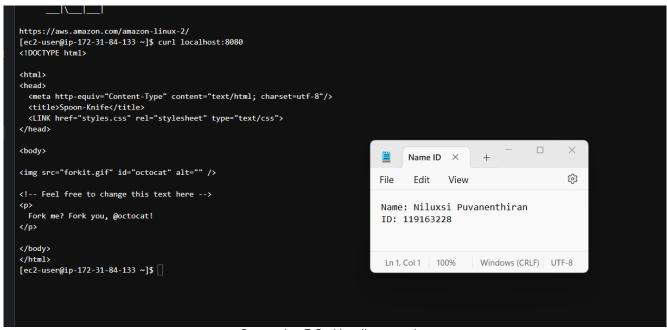
Editing failed as this is read-only file

Workshop 2 - Introducing InitContainer and gitrepo Volume

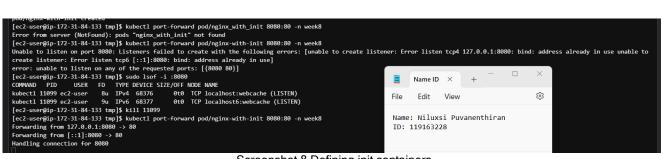


Screenshot 6 listening to port 8080

The port was on use by PID 7518
Used Kill 7518 command and then port forwarded



Screenshot 7 Curl localhost running



Screenshot 8 Defining init containers

```
Last login: Sun Jul 2 03:09:21 2023 from 44.198.193.105
                    Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
[ec2-user@ip-172-31-84-133 ~]$ curl localhost:8080
<!DOCTYPE html>
<head>
 <meta http-equiv="Content-Type" content="text/html; charset=utf-8"/>
  <title>Spoon-Knife</title>
 <LINK href="styles.css" rel="stylesheet" type="text/css">
</head>
<body>
                                                                                                               Name ID \,	imes\, \,+\,
<img src="forkit.gif" id="octocat" alt="" />
                                                                                                                      (g)
                                                                                     Edit
                                                                                          View
<!-- Feel free to change this text here -->
                                                                              Name: Niluxsi Puvanenthiran
 Fork me? Fork you, @octocat!
                                                                              ID: 119163228
</body>
</html>
                                                                               Ln 1, Col 1 100% Windows (CRLF) UTF-8
[ec2-user@ip-172-31-84-133 ~]$ [
```

Screenshot 9 Curl localhost

REFERENCES

Geiman, I. (2023, Summer). Lectures and Slides, CLO835_Portable Technologies in cloud. Seneca Newham Campus, North York.

Learner Lab. (2023). Retrieved from https://awsacademy.instructure.com/.