Starbucks API on AWS Docker

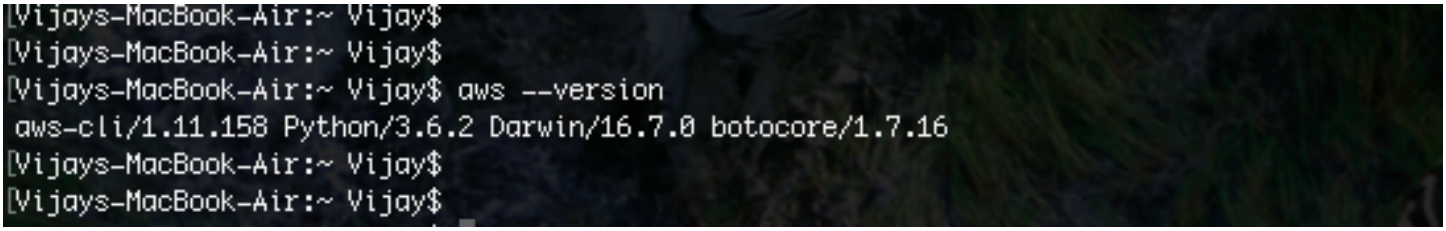
PART 1 - EC2 CONFIG & LAUNCH - AWS CLI

https://aws.amazon.com/cli/ (Links to an external site.)Links to an external site.
http://docs.aws.amazon.com/cli/latest/userguide/cli-chap-welcome.html (Links to an external site.)Links to an external site.
http://docs.aws.amazon.com/cli/latest/userguide/installing.html (Links to an external site.)Links to an external site.

- Install (if needed) AWS CLI and run the following command:

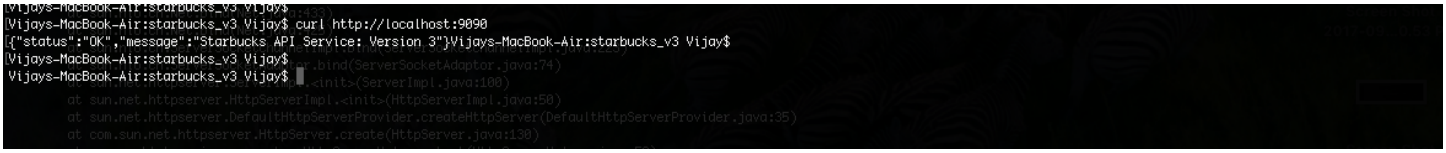
  aws --version

  Sample Output:
  aws-cli/1.11.66 Python/2.7.13 Darwin/16.4.0 botocore/1.5.29



PART 1 - EC2 CONFIG & LAUNCH - BUILD STARBUCKS API

- Build the Java Project JAR and Test a Local Run of the App using CURL



PART 1 - EC2 CONFIG & LAUNCH - DEPLOY CONTAINERS (Using First Run Wizard)

- http://docs.aws.amazon.com/AmazonECS/latest/developerguide/ECS_GetStarted.html (Links to an external site.)Links to an external site.
- https://us-west-1.console.aws.amazon.com/ecs/home?region=us-west-1#/firstRun (Links to an external site.)

Step 1: Click the "Get Started" Button - Make sure both options on Wizard is Selected then Click "Continue" and Proceed.

[x] Deploy a sample application onto an Amazon ECS Cluster

[x] Store container images securely with Amazon ECR

Step 2: Select Repository Name: cmpe281

Sample URI: 060340690398.dkr.ecr.us-west-1.amazonaws.com/cmpe281

Step 3: Build, Tag and Push Docker Image

- Retrieve the docker login command that you can use to authenticate your Docker client to your registry:
  - `aws ecr get-login --region us-west-1`
- Run the docker login command that was returned in the previous step.
- Build your Docker image using the following command. You can skip this step if your image is already built:
  - `docker build -t cmpe281 .`
- After the build completes, tag your image so you can push the image to this repository: (Note - Use your Repository)
  - `docker tag cmpe281:latest 060340690398.dkr.ecr.us-west-1.amazonaws.com/cmpe281:latest`
- Run the following command to push this image to your newly created AWS repository (Note - Use your Repository):
  - `docker push 060340690398.dkr.ecr.us-west-1.amazonaws.com/cmpe281:latest`

Step 4: Create a task definition (Note - Use your Repository and Image)

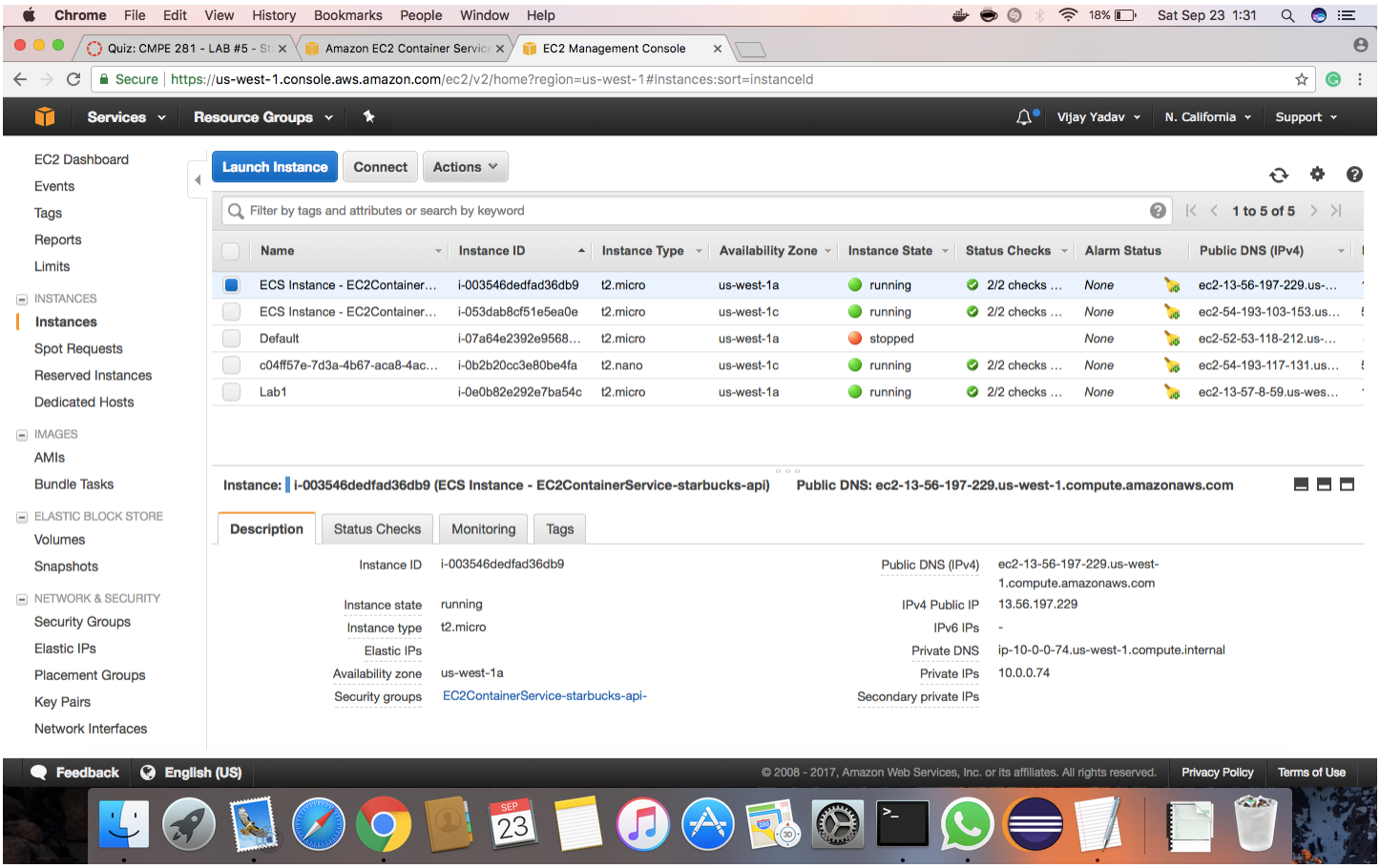
```
Task Definition Name:      starbucks-api
Container Name:            starbucks-api
Image:                     060340690398.dkr.ecr.us-west-1.amazonaws.com/cmpe281:latest
Memory Limits (Hard):      300 (MBs)
Port Mappings:
    Host Port               9090
    Container Port          9090
    Protocol                TCP
```

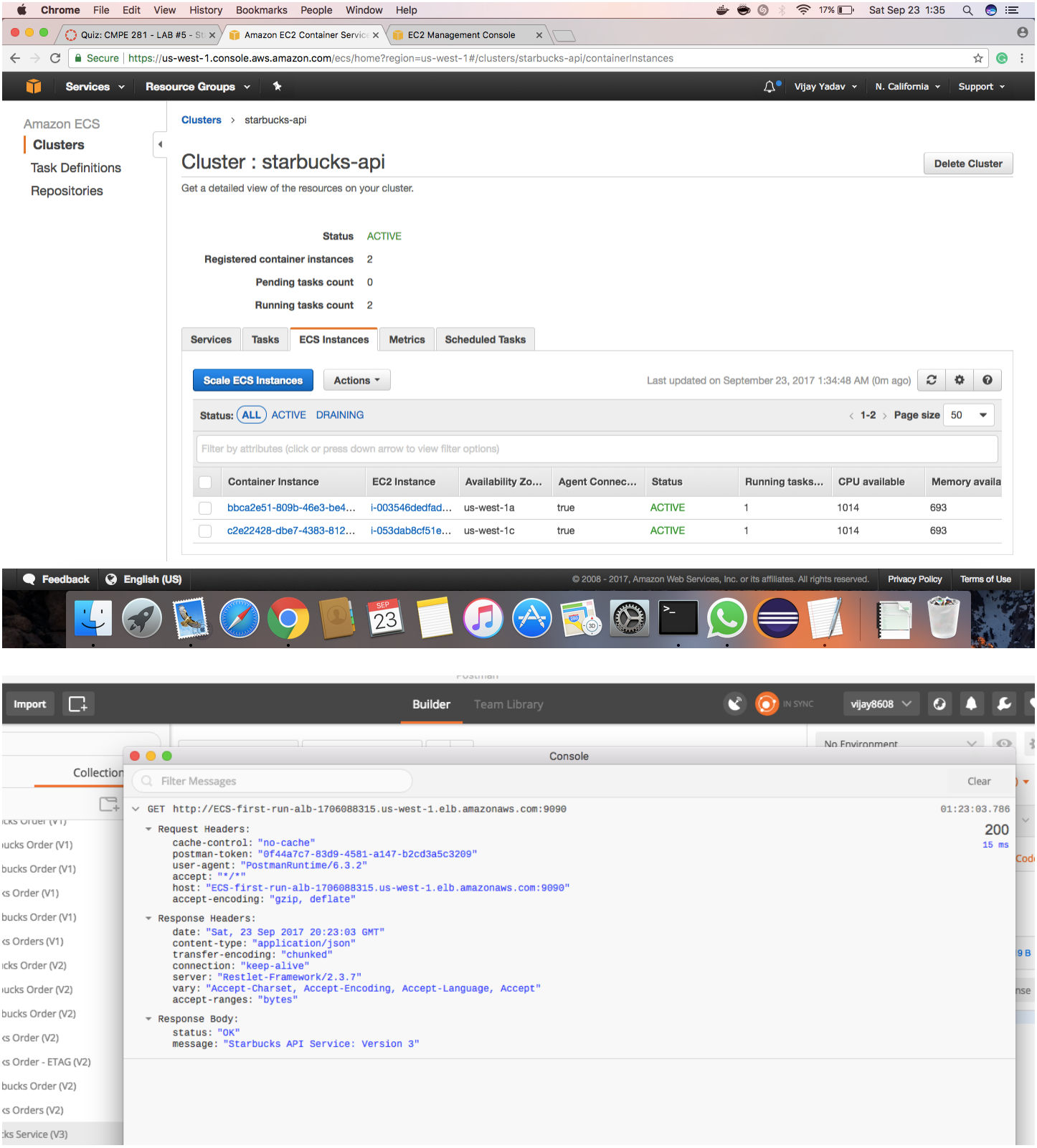
Step 5: Configure Service

```
Service Name:                 starbucks-api
Desired number of tasks:      2
Container name (host port):   starbucks-api:9090
ELB listener protocol:        http
ELB listener port:            9090
ELB health check:             http:9090/
Service IAM role:             ecsServiceRole
    ◦
```

Step 6: Configure Cluster

```
Cluster Name:                starbucks-api
EC2 instance type:           t2.micro
Number of instances:         2
Key Pair:                    cmpe281-us-west-1
Security Group:              Allowed ingress source: Select "Anywhere"
Container instance IAM role: Create New Role (ecsServiceRole)
```




Chrome File Edit View History Bookmarks People Window Help
Sat Sep 23 1:35
Quiz: CMPE 281 - LAB #5 - St
Amazon EC2 Container Servic
EC2 Management Console
Secure https://us-west-1.console.aws.amazon.com/ecs/home?region=us-west-1#/clusters/starbucks-api/containerInstances
Services Resource Groups
Vijay Yadav N. California Support
Amazon ECS
Clusters
Task Definitions
Repositories
Clusters > starbucks-api
Cluster : starbucks-api
Delete Cluster
Get a detailed view of the resources on your cluster.
Status ACTIVE
Registered container instances 2
Pending tasks count 0
Running tasks count 2
Services Tasks ECS Instances Metrics Scheduled Tasks
Scale ECS Instances
Actions
Last updated on September 23, 2017 1:34:48 AM (0m ago)
Status: ALL ACTIVE DRAINING
1-2 Page size 50
Filter by attributes (click or press down arrow to view filter options)
Container Instance
EC2 Instance
Availability Zo...
Agent Connec...
Status
Running tasks...
CPU available
Memory availa
bbca2e51-809b-46e3-be4...
i-003546dedfad...
us-west-1a
true
ACTIVE
1
1014
693
c2e22428-dbe7-4383-812...
i-053dab8cf51e...
us-west-1c
true
ACTIVE
1
1014
693
Feedback English (US)
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Privacy Policy Terms of Use

Import
Builder
Team Library
IN SYNC
vijay8608
No Environment
Console
Filter Messages
Clear
GET http://ECS-first-run-alb-1706088315.us-west-1.elb.amazonaws.com:9090
01:23:03.786
Request Headers:
cache-control: "no-cache"
postman-token: "0f44a7c7-83d9-4581-a147-b2cd3a5c3209"
user-agent: "PostmanRuntime/6.3.2"
accept: "*/*"
host: "ECS-first-run-alb-1706088315.us-west-1.elb.amazonaws.com:9090"
accept-encoding: "gzip, deflate"
200
15 ms
Response Headers:
date: "Sat, 23 Sep 2017 20:23:03 GMT"
content-type: "application/json"
transfer-encoding: "chunked"
connection: "keep-alive"
server: "Restlet-Framework/2.3.7"
vary: "Accept-Charset, Accept-Encoding, Accept-Language, Accept"
accept-ranges: "bytes"
Response Body:
status: "OK"
message: "Starbucks API Service: Version 3"