Scenario

The introduction of Lambda support for OCI container images provides customers with more choices when it comes to packaging formats. Developers can now choose to take advantage of the event-driven runtime model and cost-savings advantages of AWS Lambda, while taking advantage of the predictability and control offered by a container-based development and deployment cycle.

Architecture diagram



Architecture Implementation					
1	Download the Dockerfile and the app code folder provided with this workbook				
2	Package the web application as a Docker image running on Alpine with Python				
3	Create an ECR repository and login to it.				
4	Build the image with the downloaded dockerfile and the support files				
5	Tag the image appropriately and push it into the ECR repository.				
6	Create a Lambda function with the image in ECR.				

Step 1 : Docker Image creation

Step number a

Step name Creation of Docker image

Expected screenshots 1) Building the Docker image 2) List of the created image

Building Docker Image:

List of Created Image:

```
[ec2-user@ip-172-31-22-123 ~]$ docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

lambda_ecr latest 2b6a36336814 41 seconds ago 140MB

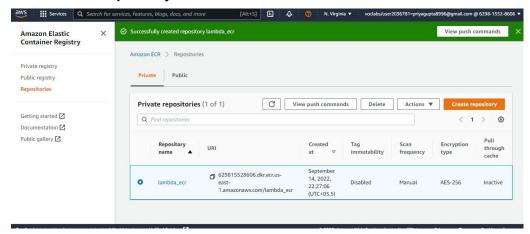
python alpine 4da4c1dc8c72 6 days ago 48.7MB

[ec2-user@ip-172-31-22-123 ~]$ |
```

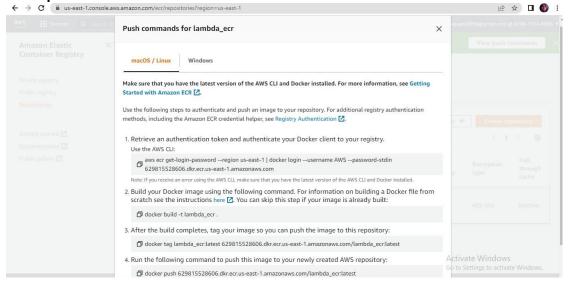
Step 2: Create ECR repository and upload image to ECR

Step number a						
Step name	Creating the ECR repository					
Step number	b					
Step name	Image upload to ECR					
Expected screenshots	Creation of Repository 2) View push commands Login Succeeded 4) Tagging of the image 5) Pushing of image to ECR 6) Image uploaded on the ECR repo					

Creation of Repository



View push commands



Login Succeeded

```
Activate Windows
```

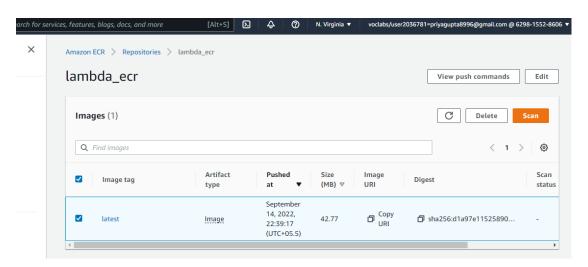
Tagging of the image

ker tag lambda_ecr:latest 629815528606.dkr.ecr.us-east-1.amazonaws.com/lambda_ecr:latest

Pushing of image to ECR

```
[ec2-user@ip-172-31-22-123 ~]$ docker push 629815528606.dkr.ecr.us-east-1.amazonaws.com/lambda_ecr:latest
The push refers to repository [629815528606.dkr.ecr.us-east-1.amazonaws.com/lambda_ecr]
7a77081b321: Pushed
e2cd8f647283: Pushed
804e16ced35b: Pushed
71aefba622a6: Pushed
765276be336a: Pushed
 bdd2dbcdf630: Pushed
994393dc58e7: Pushed
latest: digest: sha256:d1a97e11525890d1a0941e27b232b919432970561f3a2a61028b12b8cc6dc8ec size: 1787
```

Image uploaded on the ECR repository



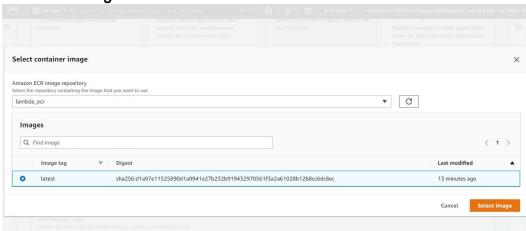
Step 3: Creation of Lambda function to test the image

Step number a

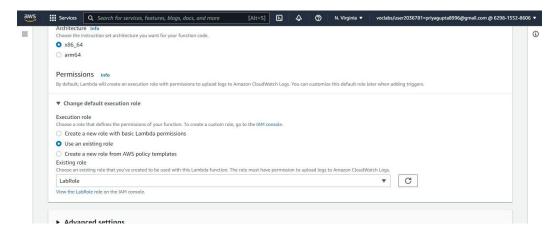
Step name Create the Lambda function and test the image

Expected 1) Container image selection 2) Execution role selection 3) Created function 4)Test result screenshots of function

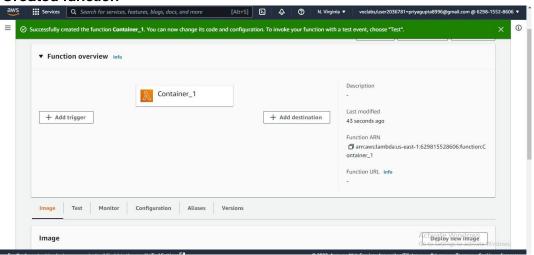
Container image selection



Execution role selection



Created function



Test resultof function

