

Advance AWS | Assignment Day 15 and 16

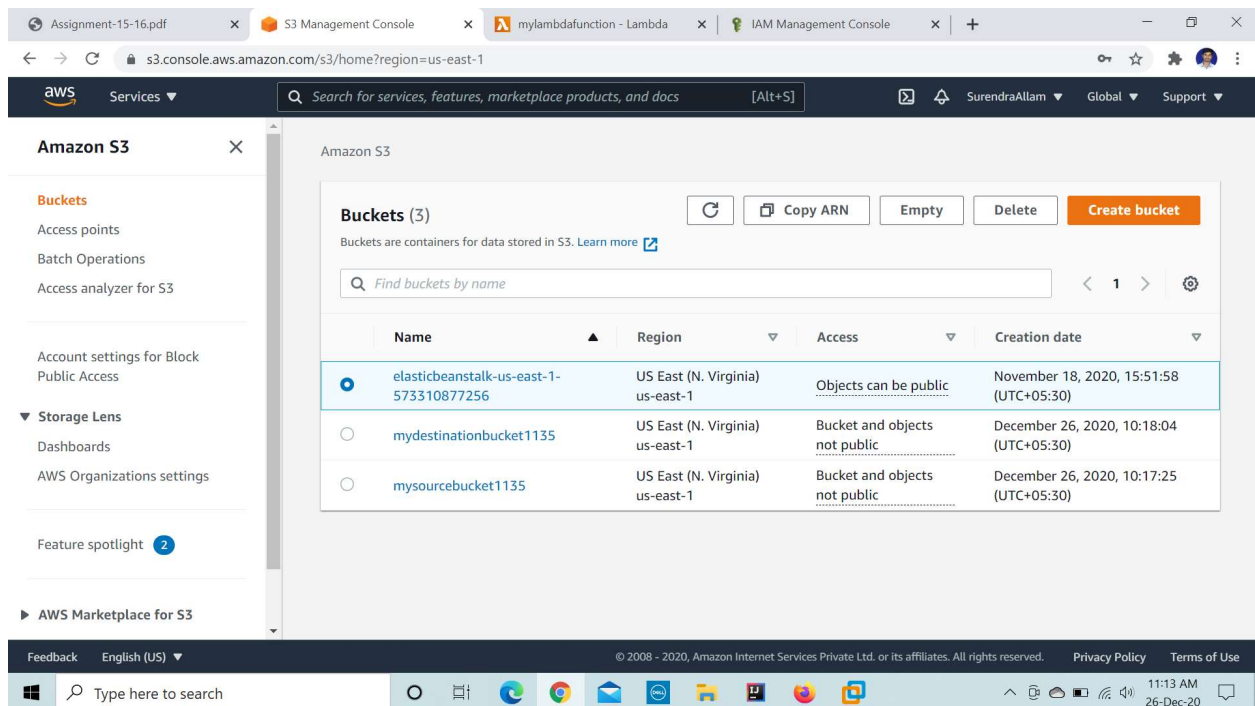
Question 1: Working with Lambda

Step1: Create two s3 buckets with the name

sourcebucket arn:aws:s3:::mysourcebucket1135

destinationbucket arn:aws:s3:::mydestinationbucket1135

SS1:s3 console with two buckets



Step2: Create a policy with limited Read-write permissions using a JSON script

ss2:json script in place

Assignment-15-16.pdf x S3 Management Console x mylambdafunction - Lambda x IAM Management Console x +

console.aws.amazon.com/iam/home?region=us-east-1#/policies/arn:aws:iam::573310877256:policy/mys3policy\$jsonEditor

aws Services Search for services, features, marketplace products, and docs [Alt+S] SurendraAllam Global Support

Identity and Access Management (IAM)

Dashboard

Access management

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Identity providers

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Access analyzer

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Analyzers

Settings

Credential report

Policies > mys3policy

Summary

Delete policy

Policy ARN arn:aws:iam::573310877256:policy/mys3policy

Description

Permissions Policy usage Policy versions Access Advisor

Policy summary {} JSON Edit policy

```
{
  "Resource": [
    "arn:aws:s3:::mysourcebucket1135/*"
  ],
  "Effect": "Allow",
  "Action": [
    "s3:PutObject"
  ],
  "Resource": [
    "arn:aws:s3:::mydestinationbucket1135/*"
  ]
}
```

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Type here to search

ss3:policy console with your policy filtered

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console.aws.amazon.com/iam/home?region=us-east-1#/policies

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Create policy Policy actions

Filter policies Q my

	Policy name	Type	Used as	Description
<input type="radio"/>	mys3policy	Customer managed	Permissions policy (1)	

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Type here to search

Assignment-15-16.pdf x S3 Management Console x mylambdafunction - Lambda x IAM Management Console x

console.aws.amazon.com/iam/home?region=us-east-1#/policies/arn:aws:iam::573310877256:policy/mys3policy\$serviceLevelSummary

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Policies > mys3policy

Summary

Delete policy

Policy ARN: arn:aws:iam::573310877256:policy/mys3policy

Description

Permissions Policy usage Policy versions Access Advisor

Policy summary { } JSON Edit policy

Filter

Service	Access level	Resource	Request condition
Allow (1 of 264 services) Show remaining 263			
S3	Limited: Read, Write	Multiple	None

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Type here to search

Step3:Create a role and attach the policy that was created in the previous step.

ss4:Role console showing details of the role

Assignment-15-16.pdf x S3 Management Console x mylambdafunction - Lambda x IAM Management Console x

console.aws.amazon.com/iam/home?region=us-east-1#/roles/mys3role

aws Services Search for services, features, marketplace products, and docs [Alt+S] SurendraAllam Global Support

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Summary

Delete role

Role ARN: arn:aws:iam::573310877256:role/mys3role

Role description: Allows Lambda functions to call AWS services on your behalf. | Edit

Instance Profile ARNs

Path: /

Creation time: 2020-12-26 10:53 UTC+0530

Last activity: Not accessed in the tracking period

Maximum session duration: 1 hour Edit

Permissions Trust relationships Tags (1) Access Advisor Revoke sessions

Permissions policies (1 policy applied)

Attach policies Add inline policy

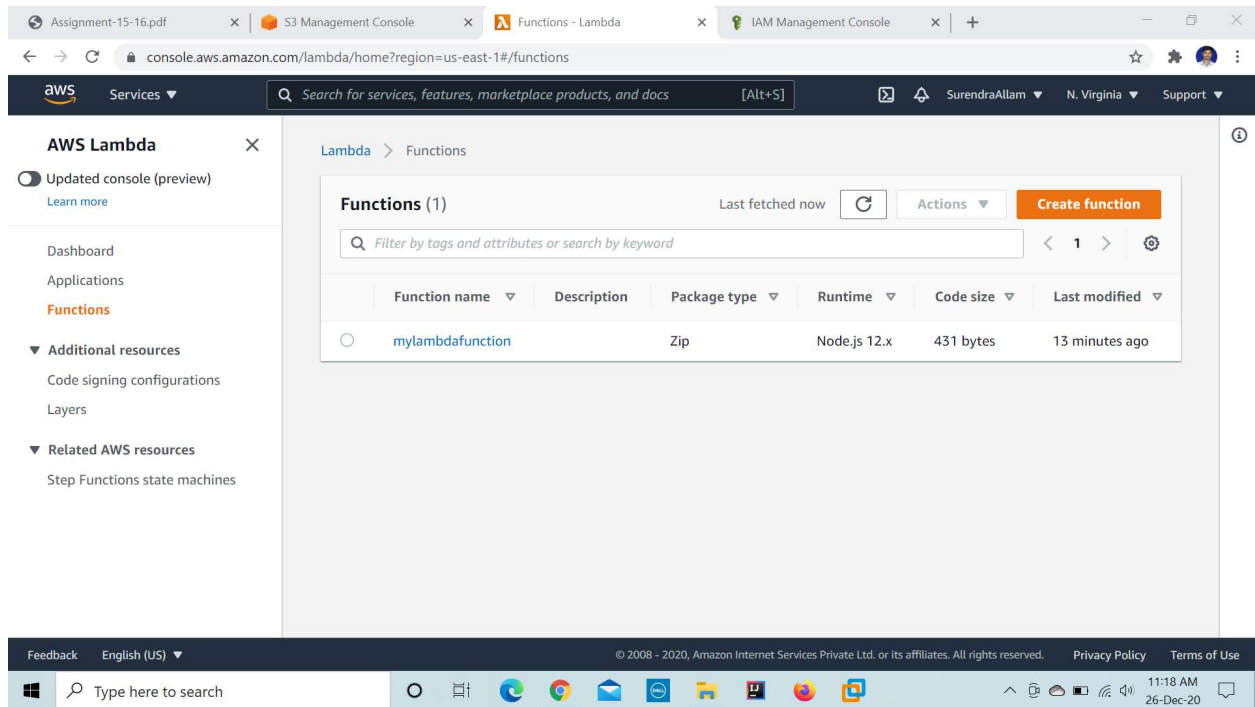
Policy name	Policy type
mys3policy	Managed policy

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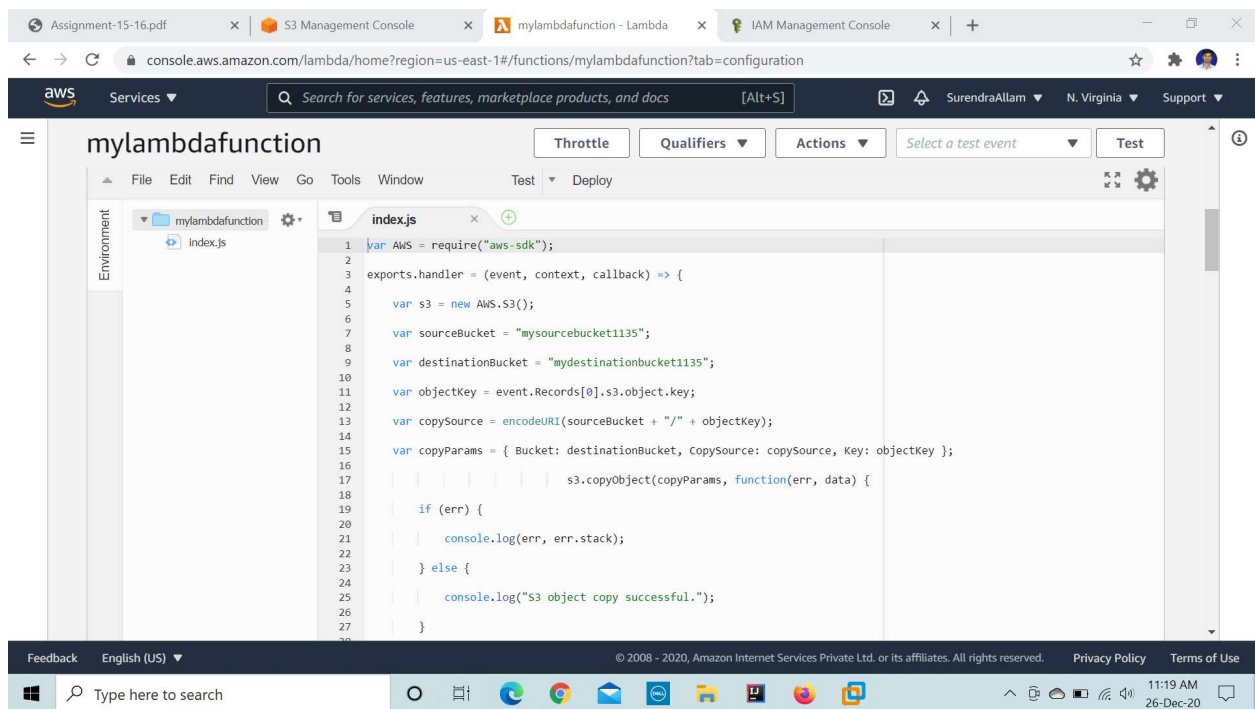
Type here to search

Step4:Create a Lambda function

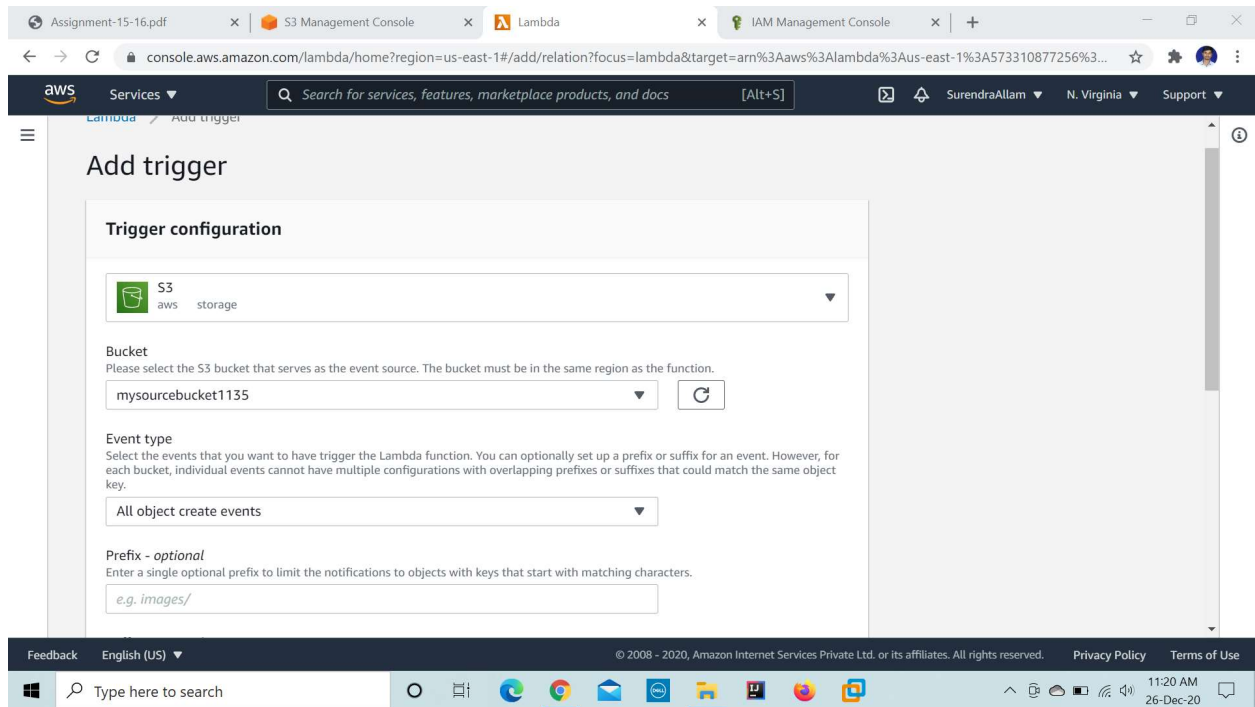
ss5:lambda functions dashboard



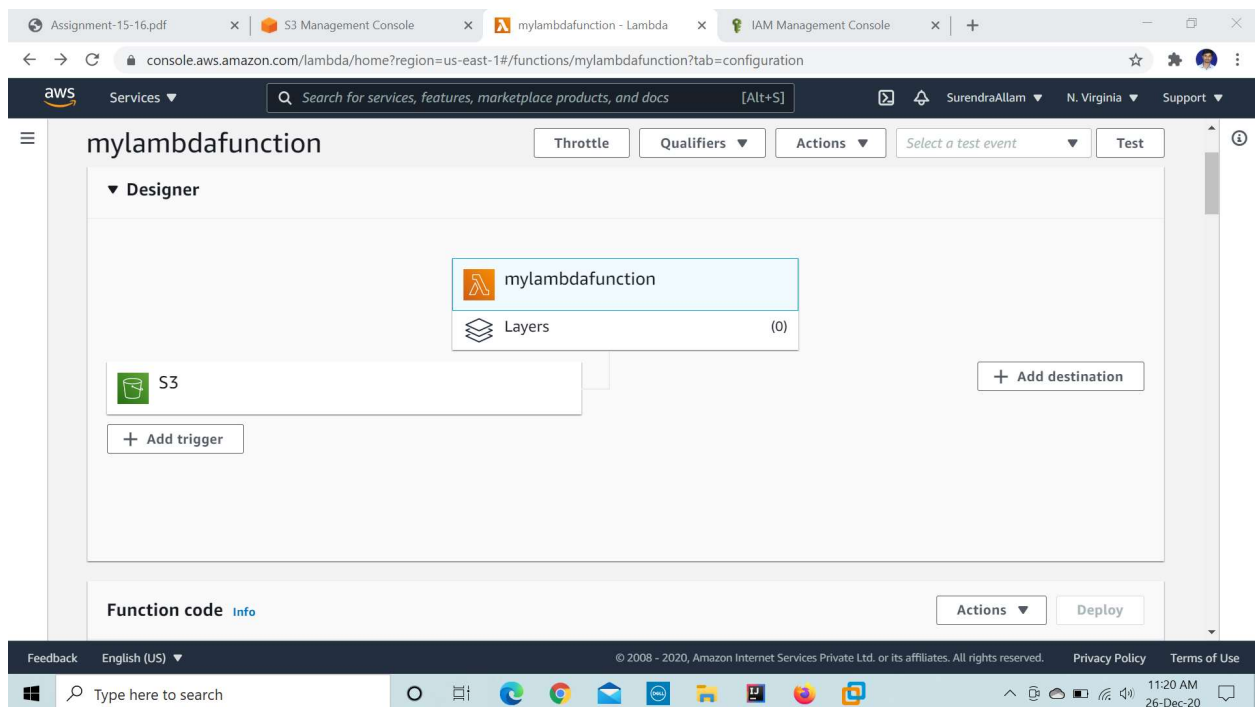
ss6:js file edited



ss7:adding trigger-s3,bucket name,confirmation for having separate buckets



Step5:Adding triggers to the lambda function
ss8:lambda configuration page with trigger added



Step6:Test by uploading objects into the source bucket
ss9:object uploaded in the source bucket

The screenshot shows the AWS S3 console interface. The left sidebar contains navigation options like Buckets, Access points, Batch Operations, and Storage Lens. The main content area displays the details for the bucket 'mysourcebucket1135'. Under the 'Objects' tab, there is a table with one object: 'SurendraAllam.jpg', which is a jpg file, 1.1 MB in size, and was last modified on December 26, 2020, at 11:11:23 (UTC+05:30). The object is stored in the 'Standard' storage class. The console also shows a search bar, a 'Find objects by prefix' input, and various action buttons like 'Upload', 'Delete', and 'Create folder'.

Name	Type	Last modified	Size	Storage class
SurendraAllam.jpg	jpg	December 26, 2020, 11:11:23 (UTC+05:30)	1.1 MB	Standard

ss10:object replicated in the destination bucket.

The screenshot shows the AWS S3 console interface for the bucket 'mydestinationbucket1135'. The layout is identical to the previous screenshot, showing the 'Objects' tab with a table containing one object: 'SurendraAllam.jpg'. This object is a jpg file, 1.1 MB in size, and was last modified on December 26, 2020, at 11:11:26 (UTC+05:30). It is stored in the 'Standard' storage class. This confirms that the object has been replicated into the destination bucket.

Name	Type	Last modified	Size	Storage class
SurendraAllam.jpg	jpg	December 26, 2020, 11:11:26 (UTC+05:30)	1.1 MB	Standard

Question 1: Working with Elastic container service using fargate

Step1: Getting started with amazon ECS using fargate

SS1: ECS console

The screenshot shows the Amazon ECS console interface. The browser tabs include 'Learn with LetsUpgrade - Online', 'Assignment-15-16.pdf', and 'Amazon ECS'. The address bar shows the URL 'console.aws.amazon.com/ecs/home?region=us-east-1#/firstRun'. The console header includes the AWS logo, 'Services' dropdown, a search bar, and user information 'SurendraAllam', 'N. Virginia', and 'Support'. The main content area is titled 'Getting Started with Amazon Elastic Container Service (Amazon ECS) using Fargate'. On the left, a sidebar lists steps: 'Step 1: Container and Task', 'Step 2: Service', 'Step 3: Cluster', and 'Step 4: Review' (which is highlighted). The main area contains a diagram titled 'Diagram of ECS objects and how they relate' showing a hierarchy of four nested squares representing 'Container definition', 'Task definition', 'Service', and 'Cluster', each with a green checkmark. Below the diagram is a 'Review' section with the text 'Review the configuration you've set up before creating your task definition, service, and cluster.' and a 'Task definition' section with an 'Edit' button. The footer includes 'Feedback', 'English (US)', copyright information '© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.', 'Privacy Policy', 'Terms of Use', and a Windows taskbar at the bottom with the time '12:02 PM 26-Dec-20'.

Step2: Creating container and task definition

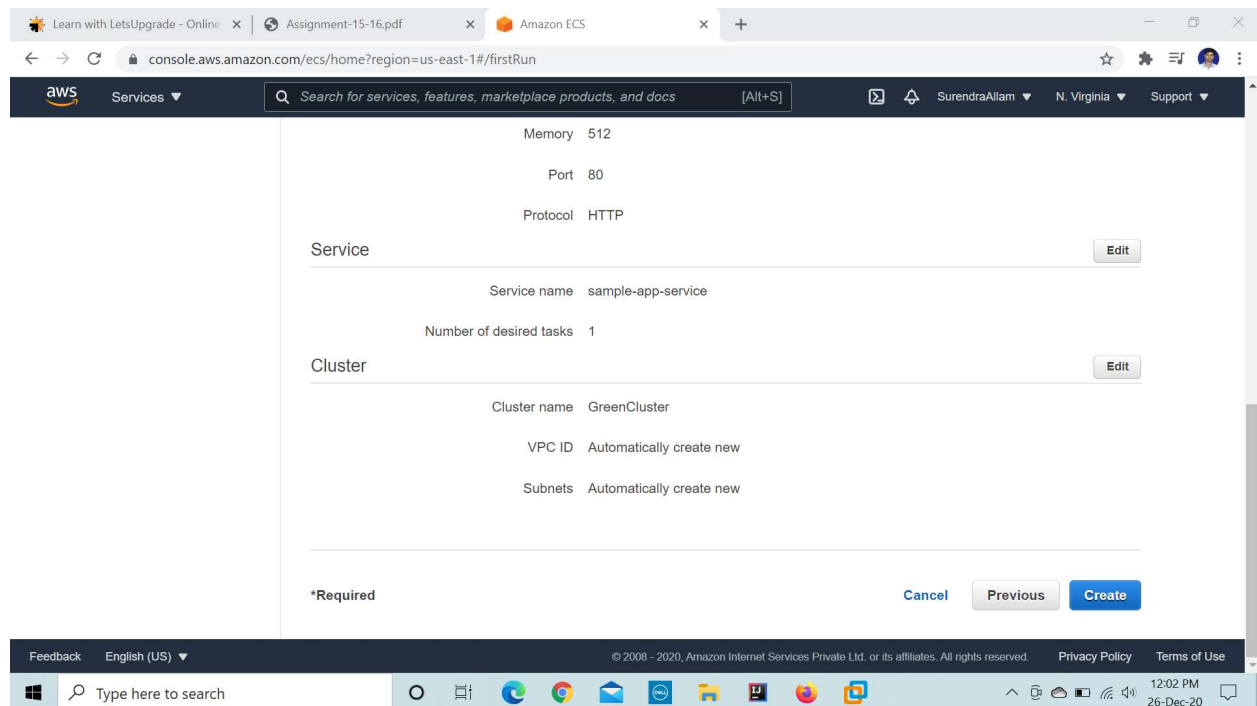
SS2: 2nd panel with all options visible

The screenshot shows the 'Review' page in the Amazon ECS console for creating a task definition. The browser tabs and address bar are the same as in the previous screenshot. The console header is also the same. The main content area is titled 'Review' and contains the text 'Review the configuration you've set up before creating your task definition, service, and cluster.' Below this is a 'Task definition' section with an 'Edit' button. The task definition configuration is displayed as follows: 'Task definition name' is 'first-run-task-definition', 'Network mode' is 'awsvpc', 'Task execution role' is 'Create new', 'Container name' is 'sample-app', 'Image' is 'httpd:2.4', 'Memory' is '512', 'Port' is '80', and 'Protocol' is 'HTTP'. Below the task definition section is a 'Service' section with an 'Edit' button. The service configuration is displayed as follows: 'Service name' is 'sample-app-service'. The footer includes 'Feedback', 'English (US)', copyright information '© 2008 - 2020, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.', 'Privacy Policy', 'Terms of Use', and a Windows taskbar at the bottom with the time '12:02 PM 26-Dec-20'.

Step3:Configuring the service

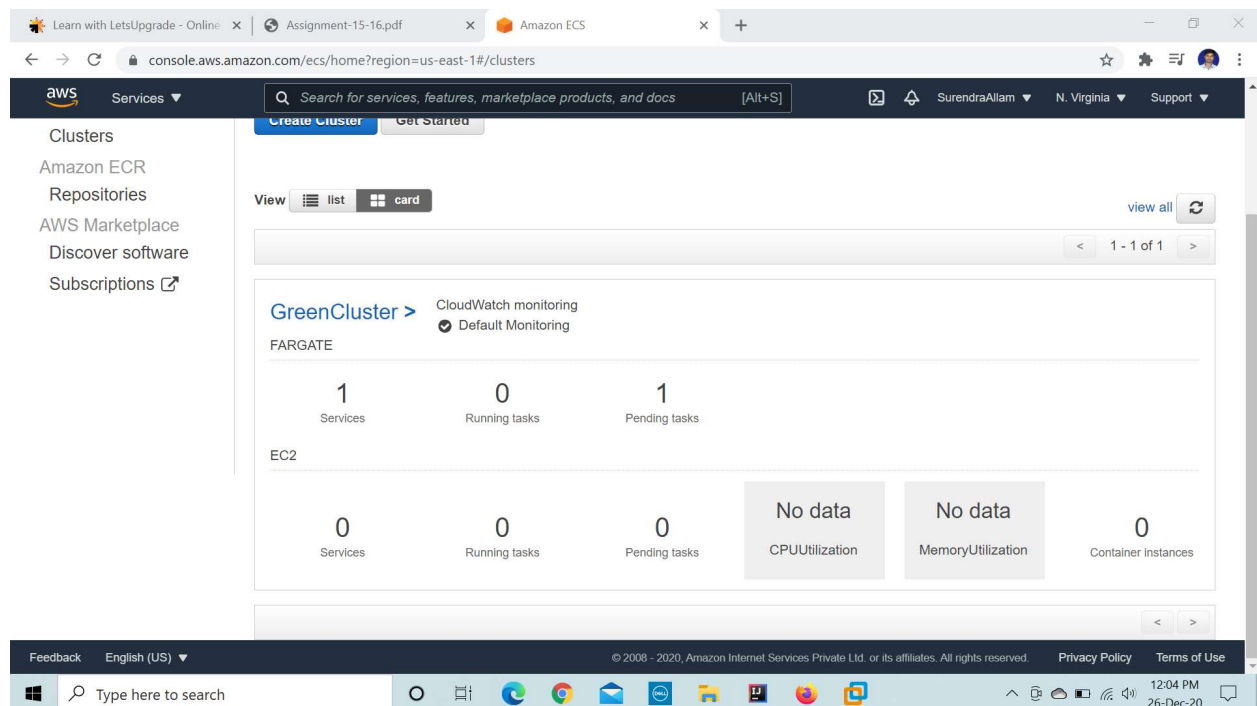
Step4:Configuring the cluster

ss4:next panel



Step5:viewing the service

ss5:Dashboard displaying the cluster created

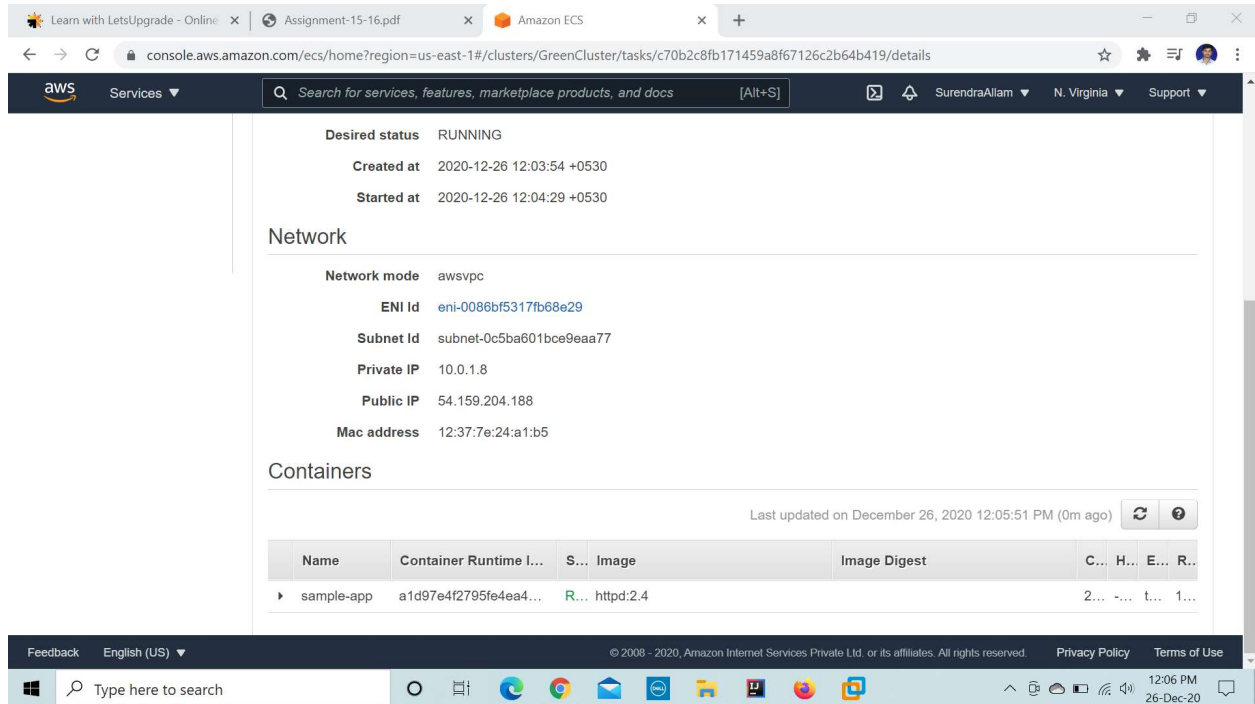


ss6:cluster information

The screenshot shows the Amazon ECS console interface. The left sidebar contains navigation links for Amazon ECS Clusters, Task Definitions, Account Settings, Amazon EKS Clusters, Amazon ECR Repositories, AWS Marketplace Discover software, and Subscriptions. The main content area displays the 'Cluster : GreenCluster' page. At the top right of this page are 'Update Cluster' and 'Delete Cluster' buttons. Below the cluster name, it states 'Get a detailed view of the resources on your cluster.' The cluster details include: Cluster ARN (arn:aws:ecs:us-east-1:573310877256:cluster/GreenCluster), Status (ACTIVE), Registered container instances (0), Pending tasks count (0 Fargate, 0 EC2), Running tasks count (1 Fargate, 0 EC2), Active service count (1 Fargate, 0 EC2), and Draining service count (0 Fargate, 0 EC2). Below these details are tabs for Services, Tasks, ECS Instances, Metrics, Scheduled Tasks, Tags, and Capacity Providers. The 'Services' tab is currently selected, showing a 'Create' button and a table with columns for Filter, Launch type, and Service type. The bottom of the screenshot shows the Windows taskbar with the search bar and various application icons.

The screenshot shows the Amazon ECS console interface for a specific task. The left sidebar is the same as the previous screenshot. The main content area displays the 'Task : c70b2c8fb171459a8f67126c2b64b419' page. At the top right of this page are 'Run more like this' and 'Stop' buttons. Below the task name, there are tabs for Details, Tags, and Logs. The 'Details' tab is selected, showing the following information: Cluster (GreenCluster), Launch type (FARGATE), Platform version (1.3.0), Task definition (first-run-task-definition:2), Group (service:sample-app-service), Task role (None), Last status (RUNNING), Desired status (RUNNING), Created at (2020-12-26 12:03:54 +0530), and Started at (2020-12-26 12:04:29 +0530). Below the details is a section for 'Network' with a sub-section for 'Network mode' showing 'aws-vpc'. The bottom of the screenshot shows the Windows taskbar with the search bar and various application icons.

ss7:panel displaying ENI ID



The screenshot shows the AWS Management Console interface for an Amazon ECS task. The top navigation bar includes the AWS logo, a search bar, and user information. The main content area displays the task details for a task in the 'GreenCluster'.

Task Details:

- Desired status: RUNNING
- Created at: 2020-12-26 12:03:54 +0530
- Started at: 2020-12-26 12:04:29 +0530

Network Section:

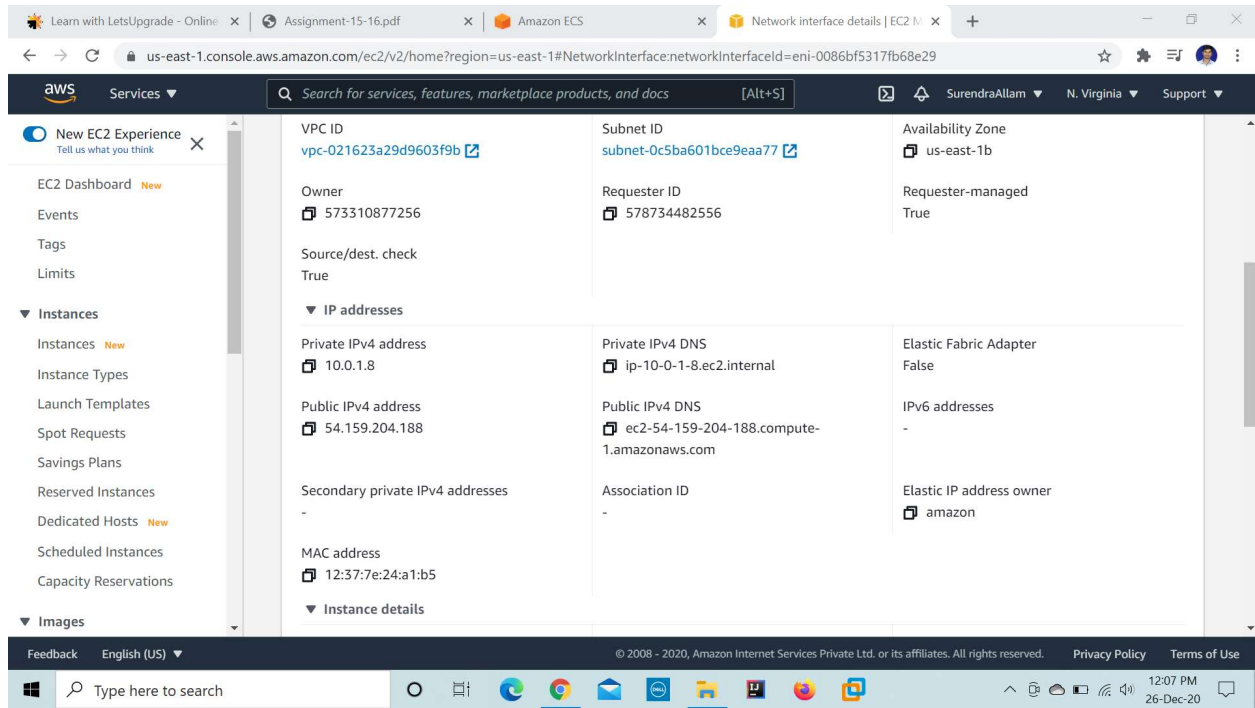
- Network mode: awsvpc
- ENI Id: [eni-0086bf5317fb68e29](#)
- Subnet Id: subnet-0c5ba601bce9eaa77
- Private IP: 10.0.1.8
- Public IP: 54.159.204.188
- Mac address: 12:37:7e:24:a1:b5

Containers Section:

Last updated on December 26, 2020 12:05:51 PM (0m ago)

Name	Container Runtime I...	S...	Image	Image Digest	C...	H...	E...	R...
sample-app	a1d97e4f2795fe4ea4...	R...	httpd:2.4		2...	-...	t...	1...

ss8:Panel displaying the private, public, and the macid



The screenshot shows the AWS Management Console interface for a Network Interface (ENI). The top navigation bar includes the AWS logo, a search bar, and user information. The main content area displays the details for the ENI with ID `eni-0086bf5317fb68e29`.

Network Interface Details:

- VPC ID: [vpc-021623a29d9603f9b](#)
- Subnet ID: [subnet-0c5ba601bce9eaa77](#)
- Availability Zone: us-east-1b
- Owner: 573310877256
- Requester ID: 578734482556
- Source/dest. check: True
- Requester-managed: True

IP addresses:

Private IPv4 address	Private IPv4 DNS	Elastic Fabric Adapter
10.0.1.8	ip-10-0-1-8.ec2.internal	False
Public IPv4 address	Public IPv4 DNS	IPv6 addresses
54.159.204.188	ec2-54-159-204-188.compute-1.amazonaws.com	-
Secondary private IPv4 addresses	Association ID	Elastic IP address owner
-	-	amazon
MAC address		
12:37:7e:24:a1:b5		

Instance details:

ss9:display application

