

Assignment Day 15 and 16 | 16th December 2020

For any doubts regarding the assignment, ask questions in the AWS Group in The Community.

Submit Assignments by 25th December 2020 11:59 PM.

Assignment Submit Form: <https://forms.gle/Hgkz3CoTcUr5KA689>

Submit assignments in Appropriate Dropdowns.

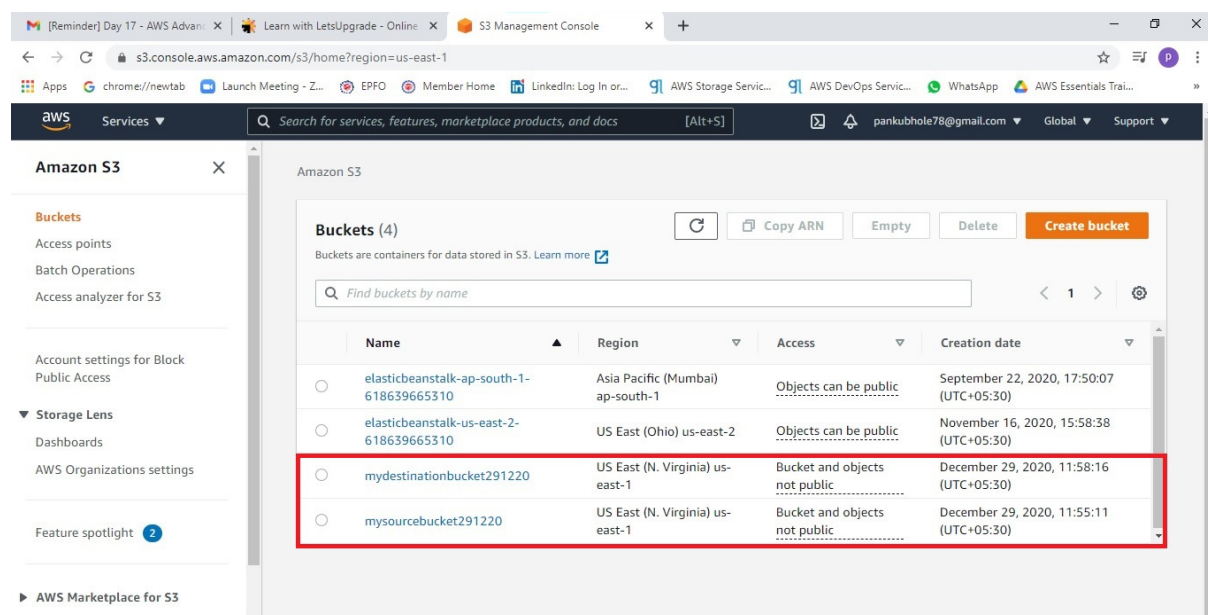
Question 1: Working with Lambda

Step1: Create two s3 buckets with the name

sourcebucket arn:aws:s3:::mysourcebucket0812

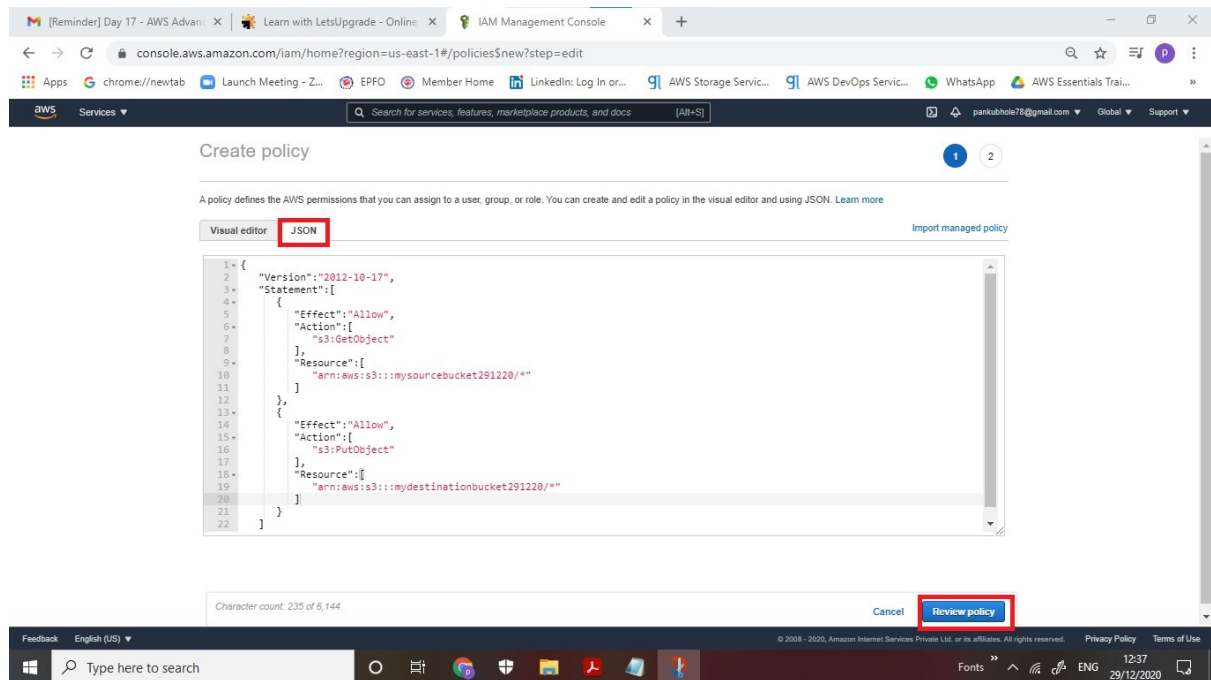
destinationbucket arn:aws:s3:::mydestinationbucket0812

SS1:s3 console with two buckets

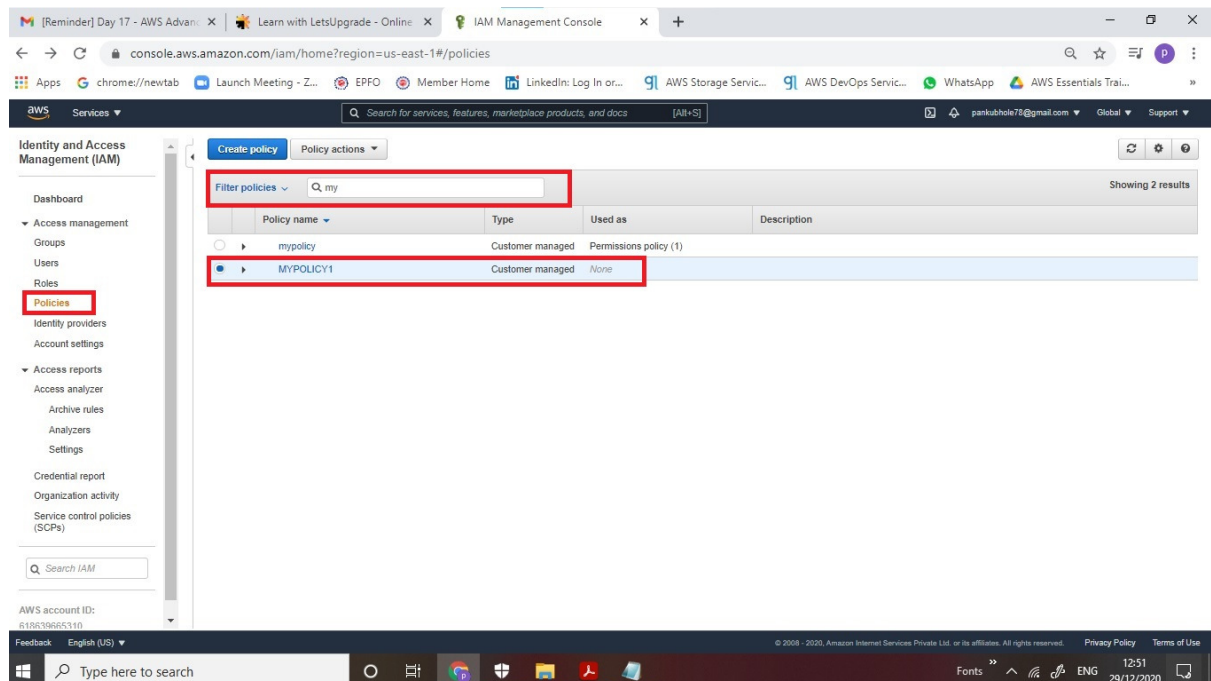


Step2: Create a policy with limited Read-write permissions using a JSON script

ss2: json script in place



ss3: Policy console with your policy filtered



Identity and Access Management (IAM)

Summary

Policy ARN: [arn:aws:iam::618639665310:policy/MYPOLICY1](#)

Description

Permissions

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

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

ss4: Role console showing details of the role

Create role

Review

Provide the required information below and review this role before you create it.

Role name*

Role description

Trusted entities [AWS service: lambda.amazonaws.com](#)

Policies [MYPOLICY1](#)

Permissions boundary [Permissions boundary is not set](#)

Key	Value
name	MyNewRole

[Cancel](#) [Previous](#) [Create role](#)

Identity and Access Management (IAM)

Dashboard

- Access management
 - Groups
 - Users
 - Roles**
 - Policies
- Identity providers
- Account settings
- Access reports
 - Access analyzer
 - Archive rules
 - Analysts
 - Settings
- Credential report
- Organization activity
- Service control policies (SCPs)

Search IAM

AWS account ID: 8186159655310

Create role Delete role

Showing 16 results

Role name	Trusted entities	Last activity
<input type="checkbox"/> admin	AWS service: ec2	None
<input type="checkbox"/> aws-elasticbeanstalk-ec2-role	AWS service: ec2	42 days
<input type="checkbox"/> aws-elasticbeanstalk-service-role	AWS service: elasticbeanstalk	42 days
<input type="checkbox"/> AWSServiceRoleForApplicationAutoScaling_DynamoDBTable	AWS service: dynamodb application-autoscal...	Today
<input type="checkbox"/> AWSServiceRoleForAutoScaling	AWS service: autoscaling (Service-Linked role)	42 days
<input type="checkbox"/> AWSServiceRoleForDynamoDBReplication	AWS service: replication dynamodb (Service-...	Today
<input type="checkbox"/> AWSServiceRoleForECS	AWS service: ecs (Service-Linked role)	8 days
<input type="checkbox"/> AWSServiceRoleForElasticLoadBalancing	AWS service: elasticloadbalancing (Service-...	42 days
<input type="checkbox"/> AWSServiceRoleForGlobalAccelerator	AWS service: globalaccelerator (Service-Link...	None
<input type="checkbox"/> AWSServiceRoleForRDS	AWS service: rds (Service-Linked role)	7 days
<input type="checkbox"/> AWSServiceRoleForSupport	AWS service: support (Service-Linked role)	28 days
<input type="checkbox"/> AWSServiceRoleForTrustedAdvisor	AWS service: trustedadvisor (Service-Linked ...)	None
<input type="checkbox"/> ecsTaskExecutionRole	AWS service: ecs-tasks	8 days
<input type="checkbox"/> MyNewRole	AWS service: lambda	None
<input type="checkbox"/> myrole	AWS service: lambda	7 days
<input type="checkbox"/> s3_full_access	AWS service: ec2	75 days

Step4: Create a Lambda function

ss5: lambda functions dashboard

AWS Lambda

Updated console (preview)

Learn more

Dashboard

Applications

Functions

Additional resources

Code signing configurations

Layers

Related AWS resources

Step Functions state machines

Resources for US East (N. Virginia)

Lambda function(s) 0

Code storage 0 bytes (0% of 75.0 GB)

Full account concurrency 1000

Unreserved account concurrency 1000

Create function

Account-level metrics

The charts below show metrics across all your Lambda functions in this AWS Region.

Add to dashboard 1h 3h 12h 1d 3d 1w custom

Error count and success rate (%)

Throttles

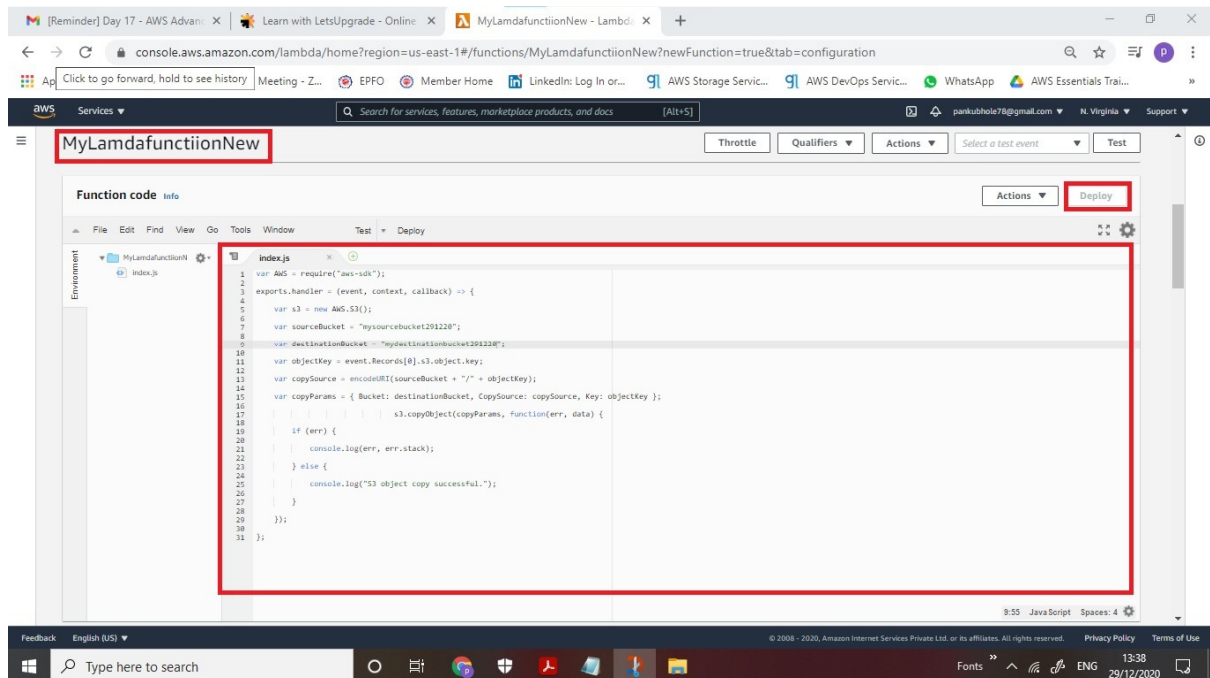
Invocations

Duration

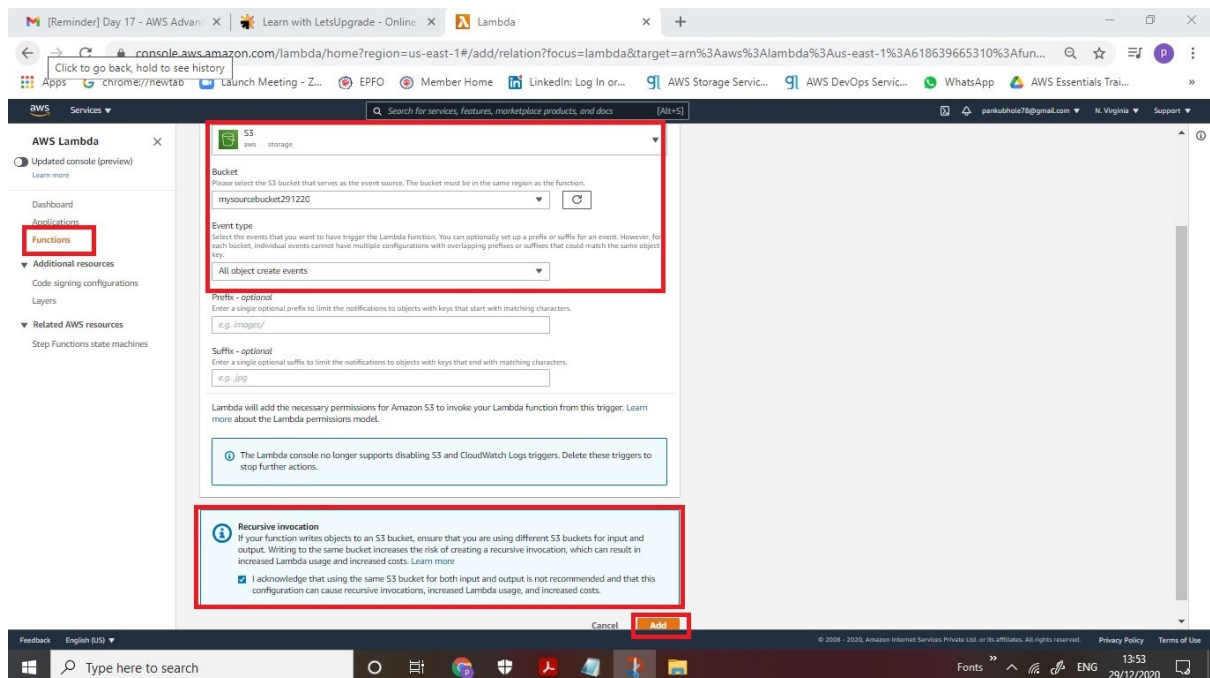
ConcurrentExecutions

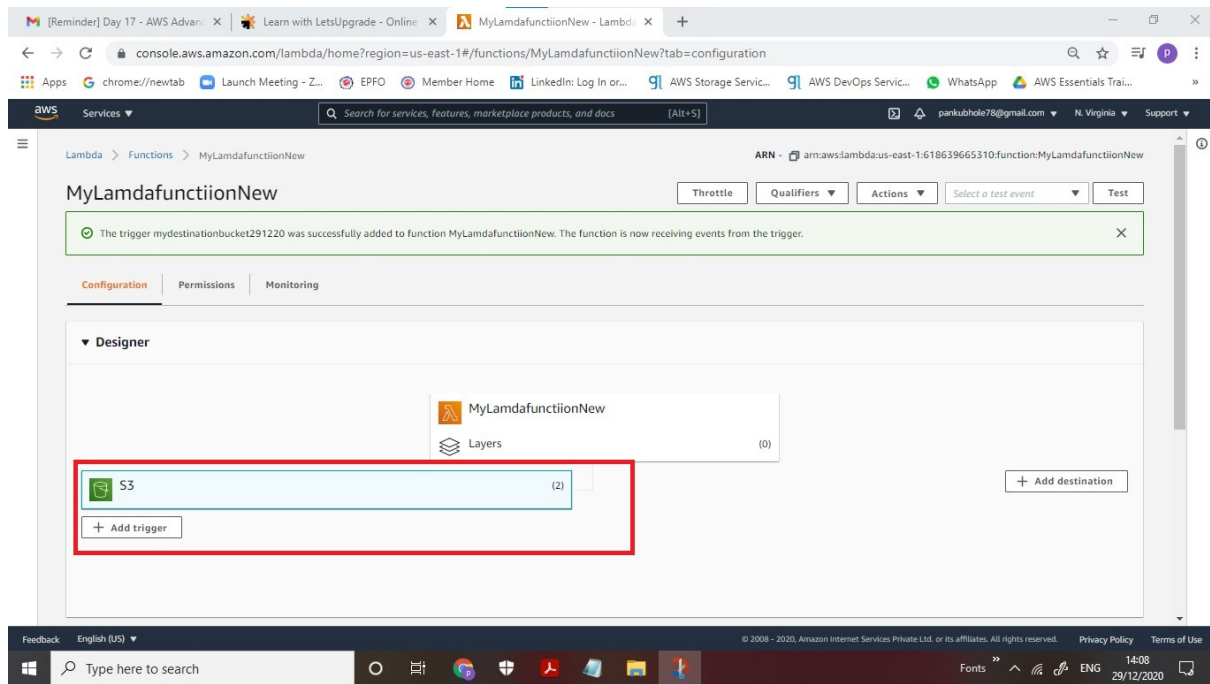
UnreservedConcurrentExecutions

ss6: js file edited



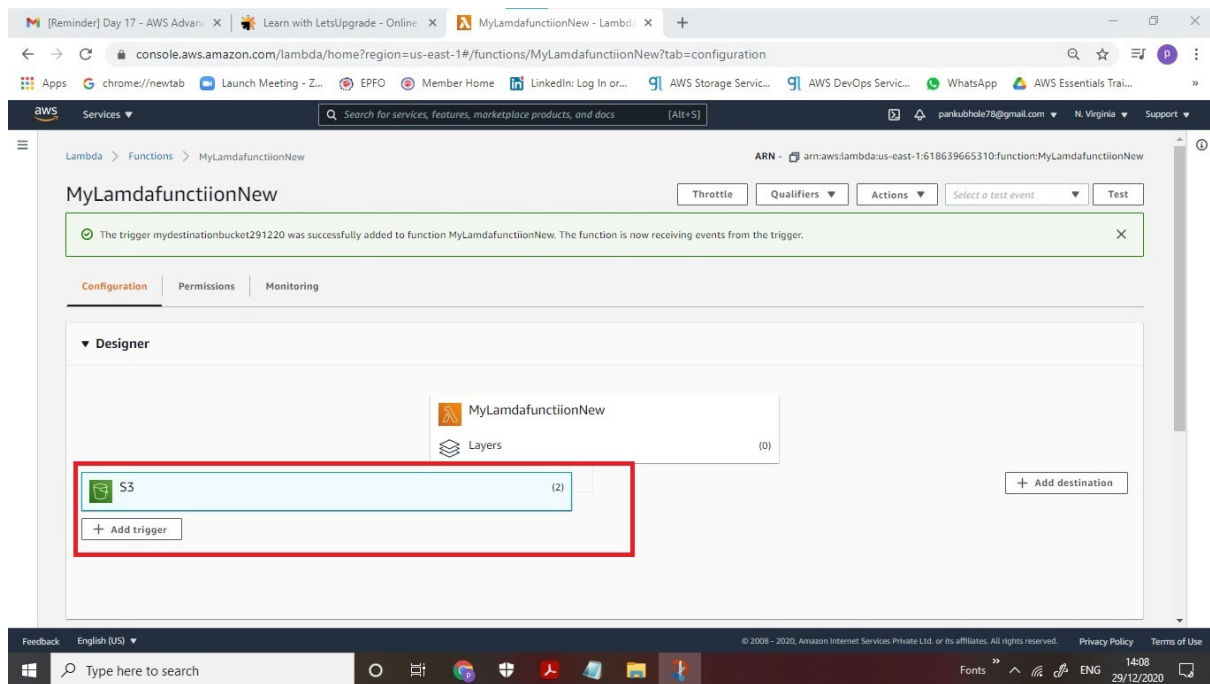
ss7: Adding trigger-s3, bucket name, confirmation for having separate buckets





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 'mymybucket291220'. Under the 'Objects' tab, a table lists one object: 'rangoli.png', which is a PNG file, 26.9 KB in size, and stored in the 'Standard' storage class. The object was last modified on December 29, 2020, at 14:19:05 (UTC+05:30). A red box highlights the object table.

	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	rangoli.png	png	December 29, 2020, 14:19:05 (UTC+05:30)	26.9 KB	Standard

ss10: Object replicated in the destination bucket.

The screenshot shows the AWS S3 console interface for the bucket 'mydestinationbucket291220'. The bucket name is highlighted with a red box. Under the 'Objects' tab, a table lists one object: 'rangoli.png', which is a PNG file, 26.9 KB in size, and stored in the 'Standard' storage class. The object was last modified on December 29, 2020, at 14:27:58 (UTC+05:30). A red box highlights the object table. Below the table, a red message states: 'object replicated in the destination bucket.'

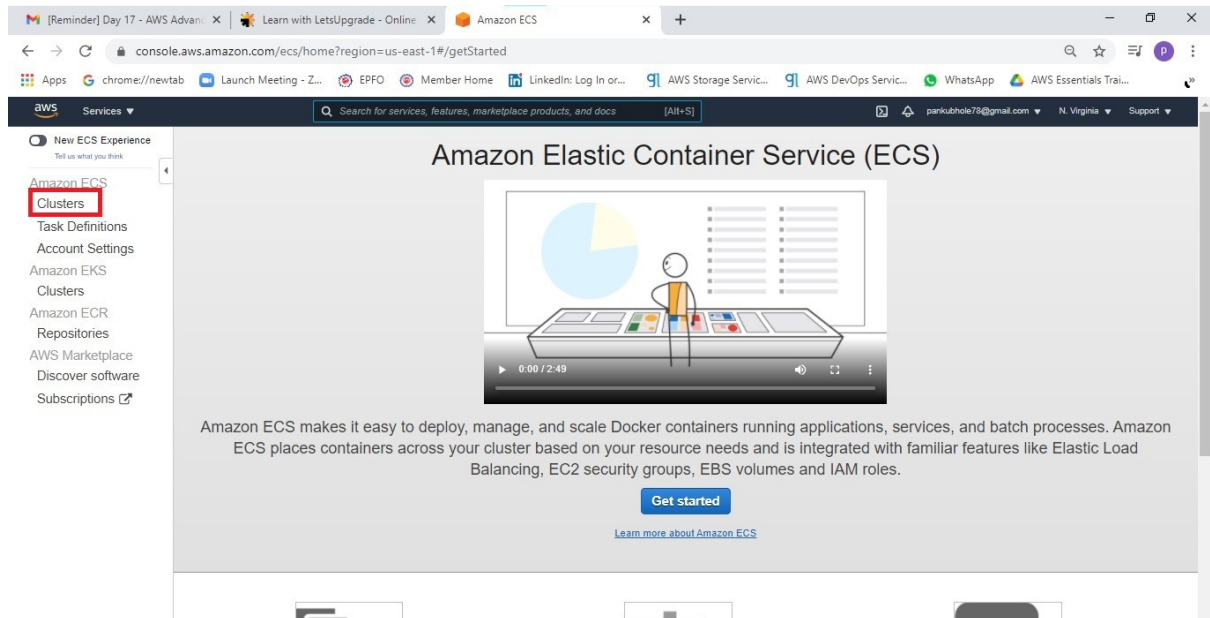
	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	rangoli.png	png	December 29, 2020, 14:27:58 (UTC+05:30)	26.9 KB	Standard

object replicated in the destination bucket.

Question 2: Working with Elastic container service using fargate

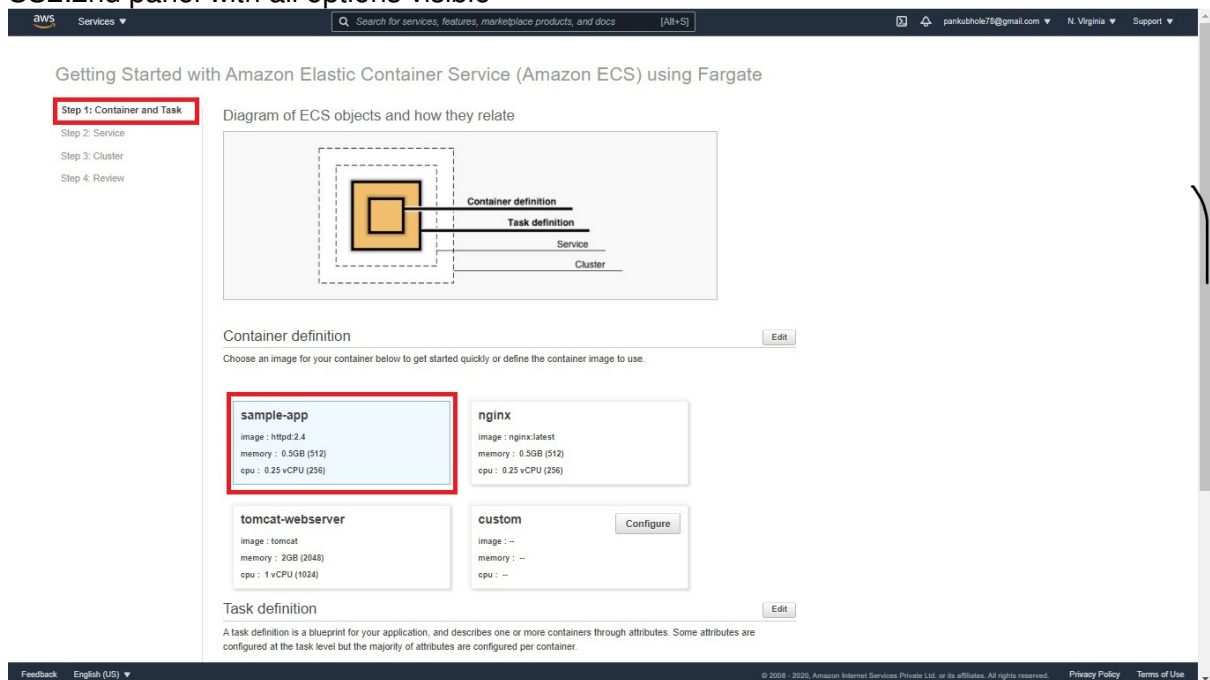
Step1: Getting started with amazon ECS using fargate

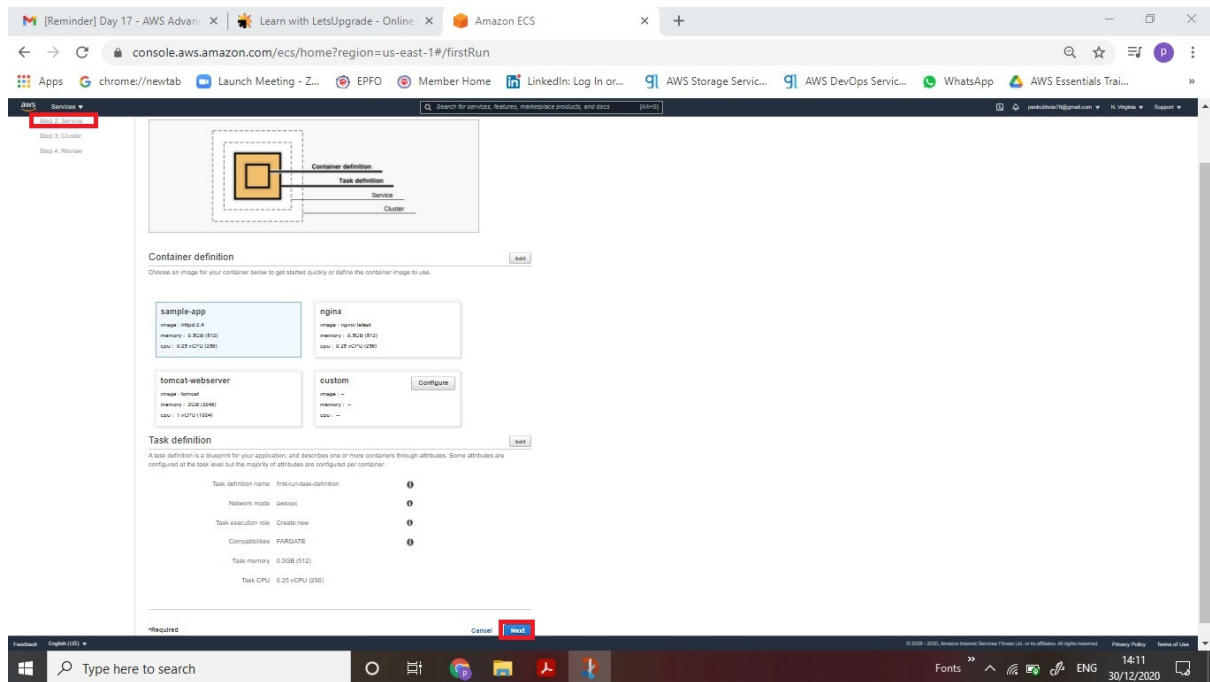
SS1: ECS console



Step2: Creating container and task definition

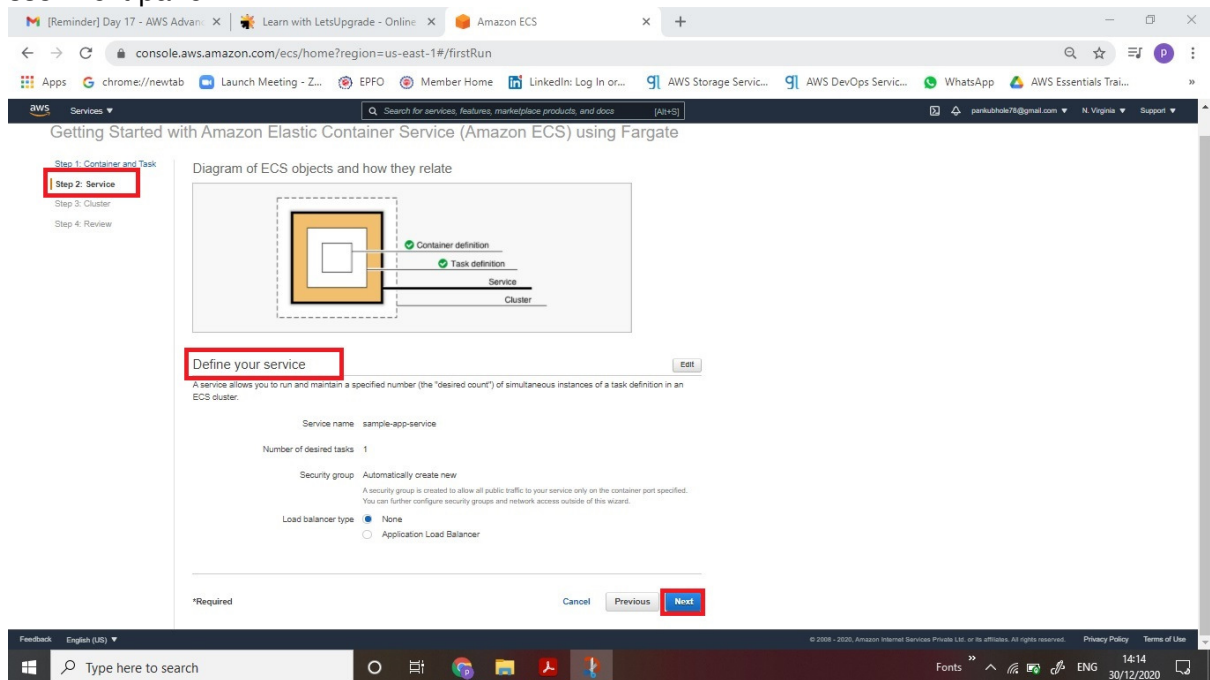
SS2:2nd panel with all options visible





Step3: Configuring the service

ss3: Next panel



Step4: Configuring the cluster

ss4: next panel

Getting Started with Amazon Elastic Container Service (Amazon ECS) using Fargate

Step 1: Container and Task
Step 2: Service
Step 3: Cluster
Step 4: Review

Diagram of ECS objects and how they relate

Configure your cluster

The infrastructure in a Fargate cluster is fully managed by AWS. Your containers run without you managing and configuring individual Amazon EC2 instances.

To see key differences between Fargate and standard ECS clusters, see the [Amazon ECS documentation](#).

Cluster name: **MyCluster**

VPC ID: Automatically create new

Subnets: Automatically create new

*Required

Cancel Previous **Next**

Step5: viewing the service

ss5: Dashboard displaying the cluster created

New ECS Experience

Amazon ECS

Clusters

Task Definitions

Account Settings

Amazon EKS

Clusters

Amazon ECR

Repositories

AWS Marketplace

Discover software

Subscriptions

Clusters > MyCluster > Service: sample-app-service

Service : sample-app-service

Cluster: **MyCluster**

Status: ACTIVE

Task definition: first-run-task-definition-2

Service type: REPLICA

Launch type: FARGATE

Service role: AWSServiceRoleForECS

Created By: am:aws:iam:618639665310:root

Desired count: 1

Pending count: 0

Running count: 1

Details Tasks Events Auto Scaling Deployments Metrics Tags Logs

Load Balancing

No load balancers

Network Access

Allowed VPC: vpc-07d941696ec4cbfc

Allowed subnets: subnet-066979eeb622c5d25, subnet-0e4e5e492f81915

Security groups*: sg-0d544ba945f3720f

Auto-assign public IP: ENABLED

Feedback English (US)

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ss6: Cluster information

Service : sample-app-service

Cluster: MyCluster
Status: ACTIVE
Task definition: first-run-task-definition-2
Service type: REPLICA
Launch type: FARGATE
Service role: AWSServiceRoleForECS
Created By: arn:aws:iam:618639665310:root

Desired count: 1
Pending count: 0
Running count: 1

Load Balancing

No load balancers

Network Access

Allowed VPC: vpc-07dd941666ec4cbfc
Allowed subnets: subnet-068979eeb622c5d25, subnet-0e4e5e5492f81915
Security groups: sg-0d544ba945f9720f
Auto-assign public IP: ENABLED

ss7: Panel displaying ENI ID

Task : 23f37aa6bfbf449588fe18cc72196d5a

Cluster: MyCluster
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: 2020-12-30 14:35:37 +0530
Started at: 2020-12-30 14:36:04 +0530

Network

Network mode: awsvpc
ENI ID: eni-03cc70ac728c2d224
Subnet Id: subnet-0e4e5e5492f81915
Private IP: 10.0.1.230
Public IP: 54.234.140.221
Mac address: 0a:3e:95:0b:02:cf

Containers

Name	Container Runtime I...	Status	Image	Image Digest	CPU Units	Hard/Soft memory li...	Essential	Resource ID
sample-app	87ac7e7bf9330dfc5aa...	RUNNING	httpd:2.4		256	--512	true	07ca4f49-2b73-4f52-a...

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

Task : 23f37aa6bfbf449588fe18cc72196d5a

Cluster: MyCluster
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: 2020-12-30 14:35:37 +0530
Started at: 2020-12-30 14:36:04 +0530

Network

Network mode: awsvpc
ENI ID: eni-03cc70ac728c2d224
Subnet Id: subnet-0e4e5e5492f81915
Private IP: 10.0.1.230
Public IP: 54.234.140.221
Mac address: 0a:3e:95:0b:02:cf

Containers

Name	Container Runtime I...	Status	Image	Image Digest	CPU Units	Hard/Soft memory li...	Essential	Resource ID
sample-app	87ac7e7bf9330dfc5aa...	RUNNING	httpd:2.4		256	--512	true	07ca4f49-2b73-4f52-a...

ss9: Display application

