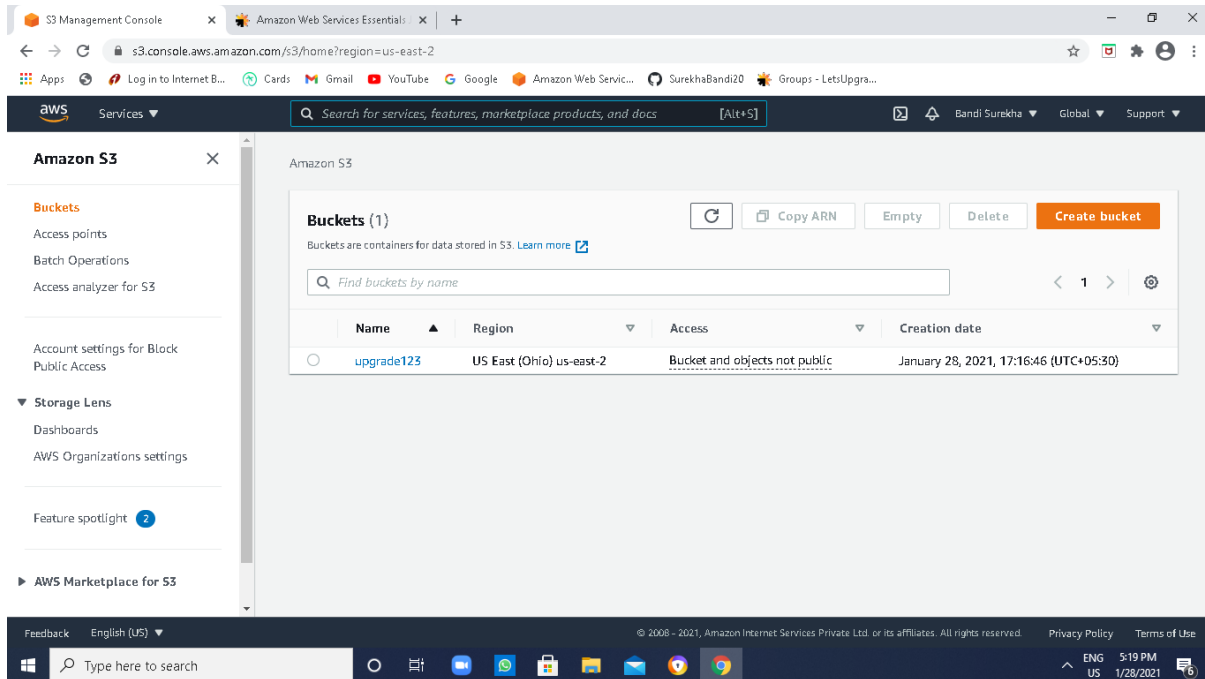


AWS Assignment – 3

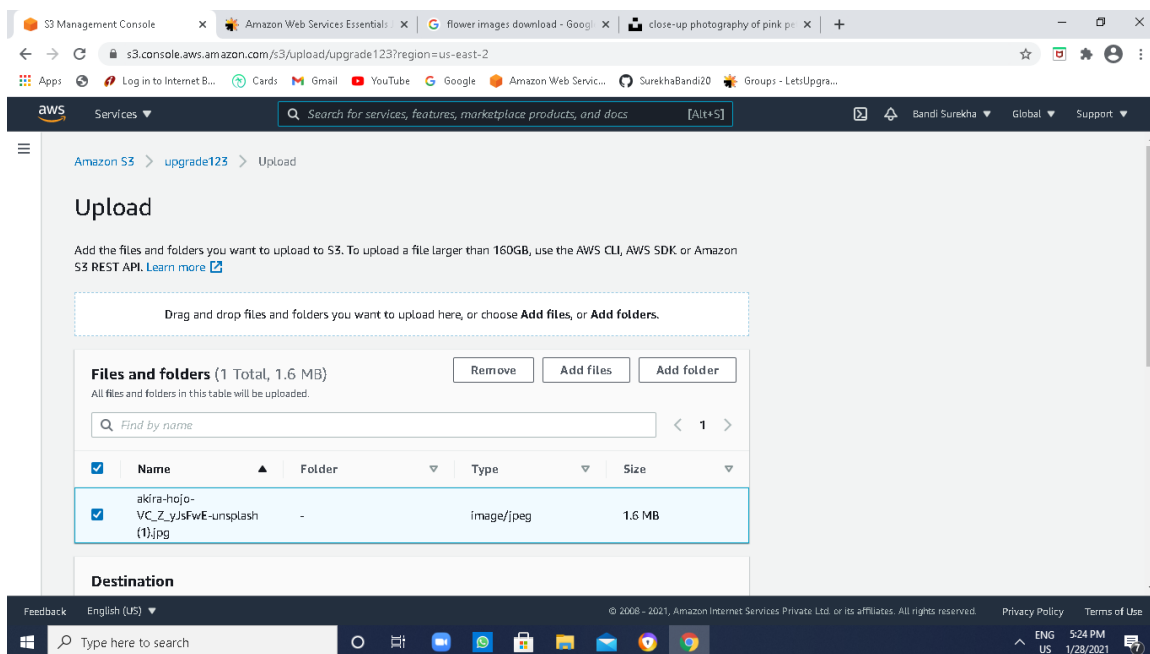
Question 1

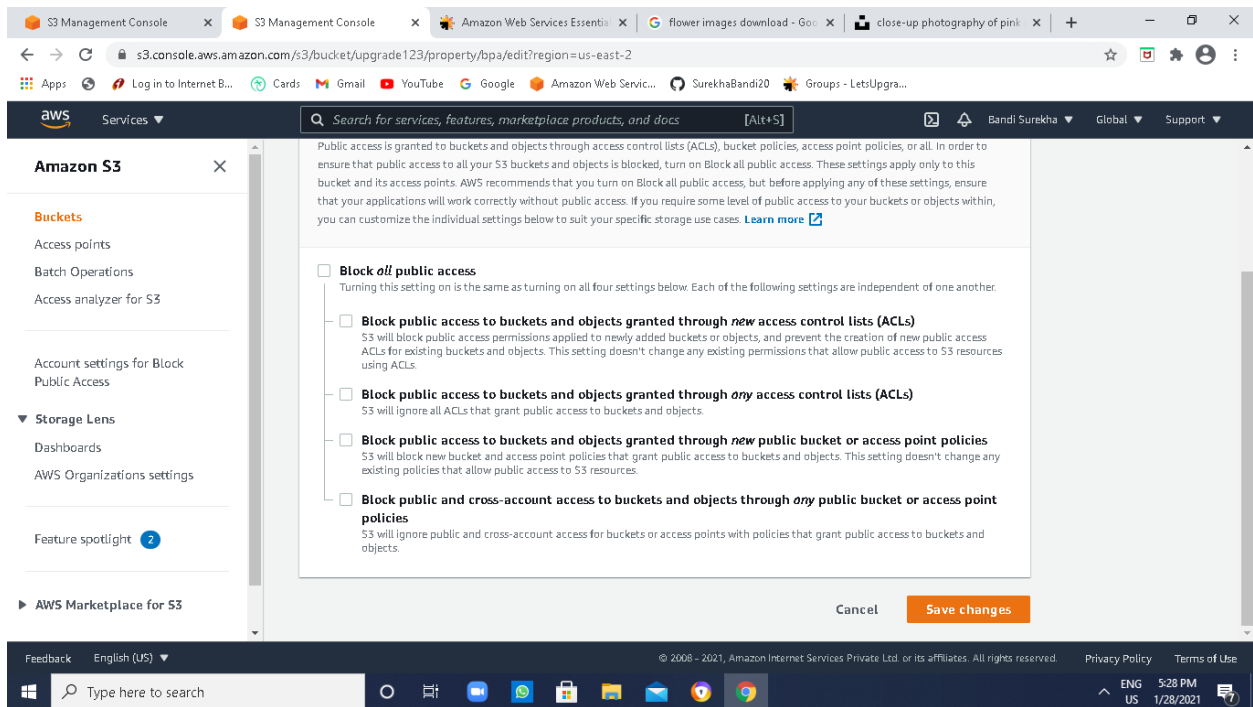
Working with s3 buckets

• Task 1: Create a bucket

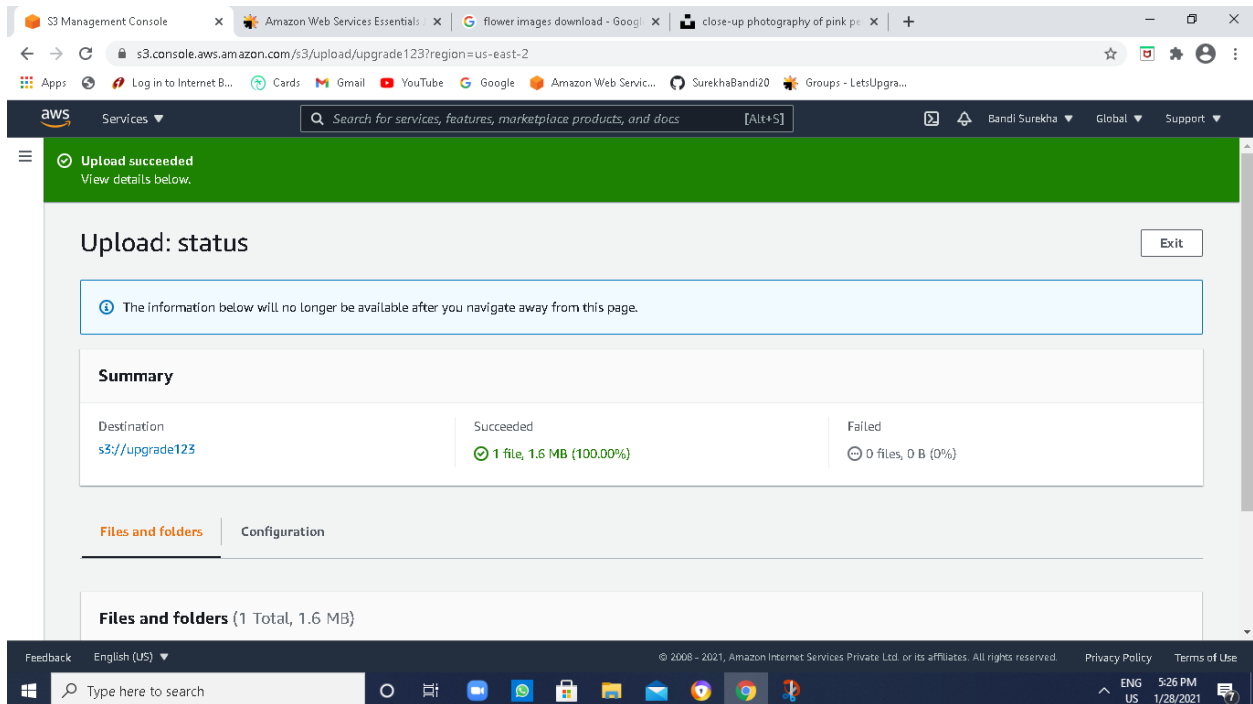


• Task 2: Add objects into the bucket and make it public.





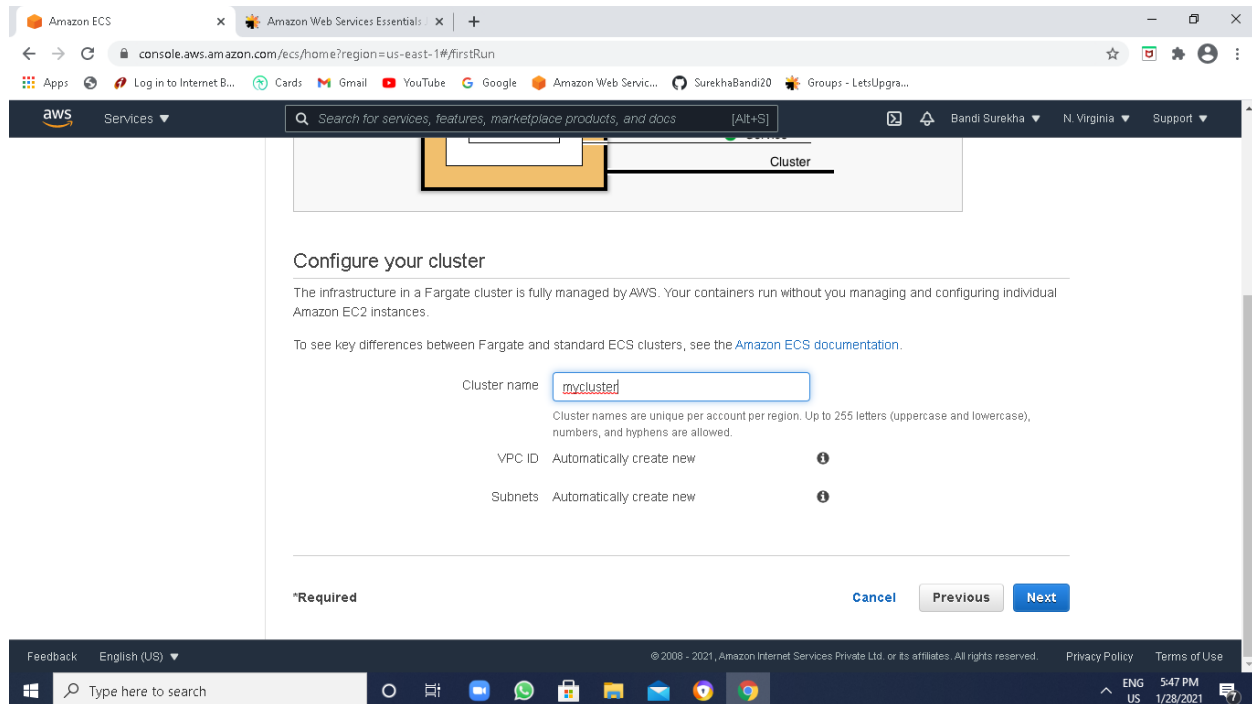
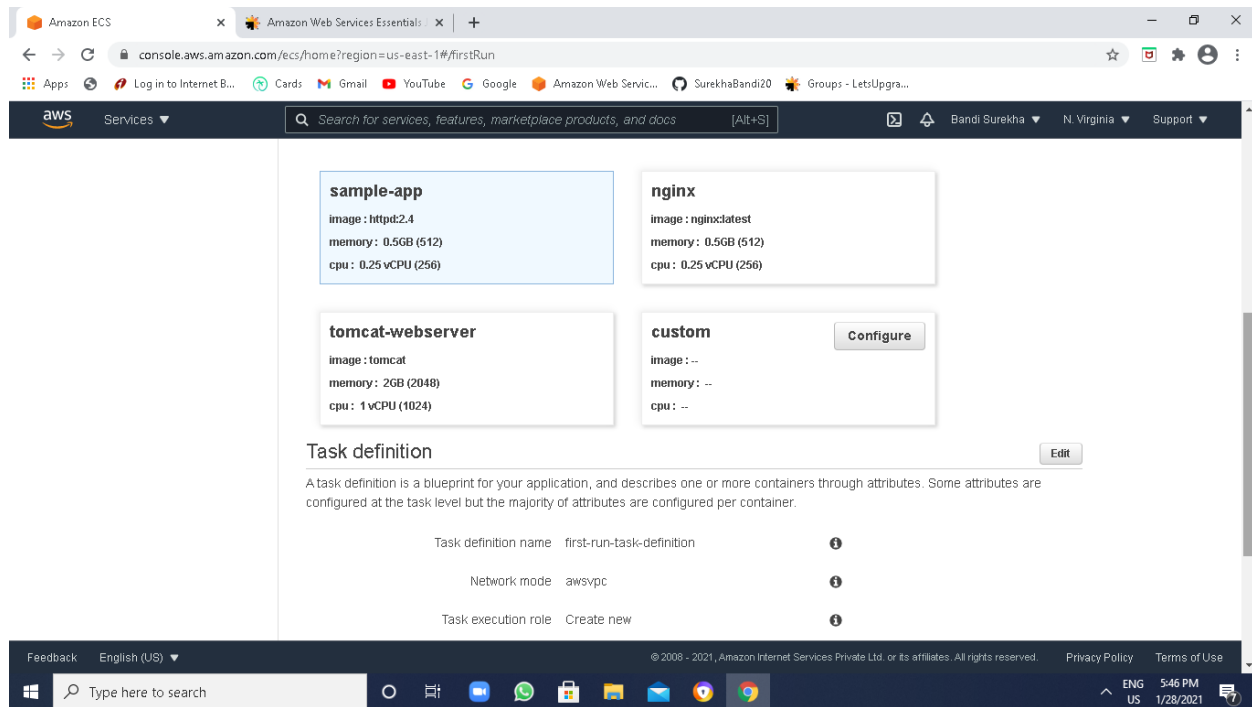
• Task 3: Try to access an object using URL



Question 2

Working with ECS using fargate

• Task 1: Create a cluster



Amazon ECS

console.aws.amazon.com/ecs/home?region=us-east-1#/firstRun

Services

Search for services, features, marketplace products, and docs [Alt+S]

Bandi Surekha N. Virginia Support

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

Review

Review the configuration you've set up before creating your task definition, service, and cluster.

Task definition [Edit](#)

Feedback English (US)

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Type here to search

ENG US 5:48 PM 1/28/2021

• Task 2: Deploy a sample application

Amazon ECS

console.aws.amazon.com/ecs/home?region=us-east-1#/firstRun

Services

Search for services, features, marketplace products, and docs [Alt+S]

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We are creating resources for your service. This may take up to 10 minutes. When we're complete, you can view your service.

[Back](#) [View service](#)

Additional features that you can add to your service after creation

Scale based on metrics
You can configure scaling rules based on CloudWatch metrics

Preparing service : 9 of 9 complete

ECS resource creation	Status
Cluster mycluster	complete
Task definition first-run-task-definition.1	complete
Service sample-app-service	complete

Additional AWS service integrations

Integration	Status
Log group /ecs/first-run-task-definition	complete
CloudFormation stack EC2ContainerService-mycluster	complete
VPC vpc-0067125ae93fe204f	complete
Subnet 1 subnet-03ed61d738dd0a1a1	complete
Subnet 2 subnet-0c1aa56ebba56904c	complete
Security group sg-023a1da3badf4666b	complete

Feedback English (US)

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ENG US 5:50 PM 1/28/2021

Amazon ECS

Amazon Web Services Essentials

console.aws.amazon.com/ecs/home?region=us-east-1#/clusters/mycluster/services/sample-app-service/details

Services

Search for services, features, marketplace products, and docs [Alt+S]

Bandi Surekha N. Virginia Support

New ECS Experience Tell us what you think

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

Update Delete

Cluster mycluster Desired count 1

Status ACTIVE Pending count 0

Task definition first-run-task-definition:1 Running count 1

Service type REPLICATION

Launch type FARGATE

Service role AWSServiceRoleForECS

Created By arn:aws:iam::004712593742:root

Details Tasks Events Auto Scaling Deployments Metrics Tags Logs

Load Balancing

Load Balancer Name	Container Name	Container Port
No load balancers		

Network Access

Feedback English (US)

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Type here to search

Amazon ECS

Amazon Web Services Essentials

console.aws.amazon.com/ecs/home?region=us-east-1#/clusters/mycluster/tasks/b168de302081475b8dd8e24e4d1958be/details

Services

Search for services, features, marketplace products, and docs [Alt+S]

Bandi Surekha N. Virginia Support

Account Settings

- Amazon EKS
- Clusters
- Amazon ECR
- Repositories
- AWS Marketplace
- Discover software
- Subscriptions

Launch type FARGATE

Platform version 1.3.0

Task definition first-run-task-definition:1

Group service:sample-app-service

Task role None

Last status RUNNING

Desired status RUNNING

Created at 2021-01-28 17:50:05 +0530

Started at 2021-01-28 17:50:32 +0530

Network

Network mode awsvpc

ENI Id eni-0f8c17ddad3effbe0

Subnet Id subnet-0c1aa56ebba56904c

Private IP 10.0.1.254

Public IP 3.85.104.189

Mac address 0a:69:be:f8:a4:8b

Feedback English (US)

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Type here to search

- Task 3: Show the ec2 instance created automatically

The screenshot shows the AWS Management Console 'Network interfaces' page. The left sidebar contains navigation links for EC2 Dashboard, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, and Capacity Reservations. The main content area shows a table of network interfaces. The first interface is eni-0f8c17ddad3effbe0, which is associated with subnet subnet-0c1aa56ebba56904c and VPC vpc-0067125ae93fe204f in the us-east-1b availability zone. The interface is attached to an EC2 instance.

Name	Network interface ID	Subnet ID	VPC ID	Availability Zone	Security Groups
-	eni-0f8c17ddad3effbe0	subnet-0c1aa56ebba56904c	vpc-0067125ae93fe204f	us-east-1b	EC2C

The screenshot shows the Amazon ECS Sample App web page. The page has a dark background with white text. The title 'Amazon ECS Sample App' is prominently displayed at the top. Below it, the text 'Congratulations!' is shown, followed by the message 'Your application is now running on a container in Amazon ECS.' The page is accessed via a browser with the URL 3.85.104.189.

Question 3

Working with the elastic beanstalk

- Create an application

The screenshot shows the AWS Elastic Beanstalk Applications console. The left sidebar has a menu with 'Environments', 'Applications' (selected), and 'Change history'. Below this is a section for 'Recent environments' showing 'Myfirstapp-env'. The main content area is titled 'All applications' and includes a search bar and a 'Create a new application' button. A table lists the applications:

Application name	Environments	Date created	Last modified	ARN
myfirstapp	Myfirstapp-env	2021-01-28 17:58:01 UTC+0530	2021-01-28 17:58:01 UTC+0530	arn:aws:elasticbeanstalk:us-east-1:004712593742:application/myfirstapp

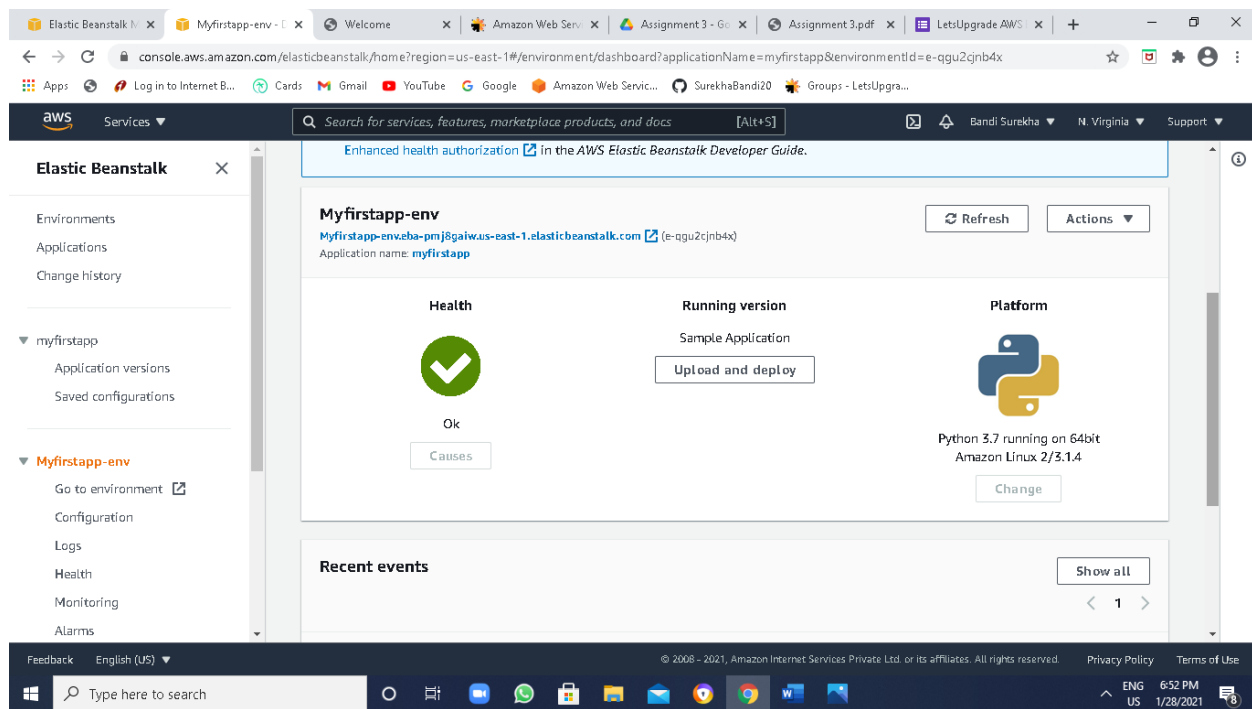
The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock indicating 6:10 PM on 1/28/2021.

- Create an env with sample python/java

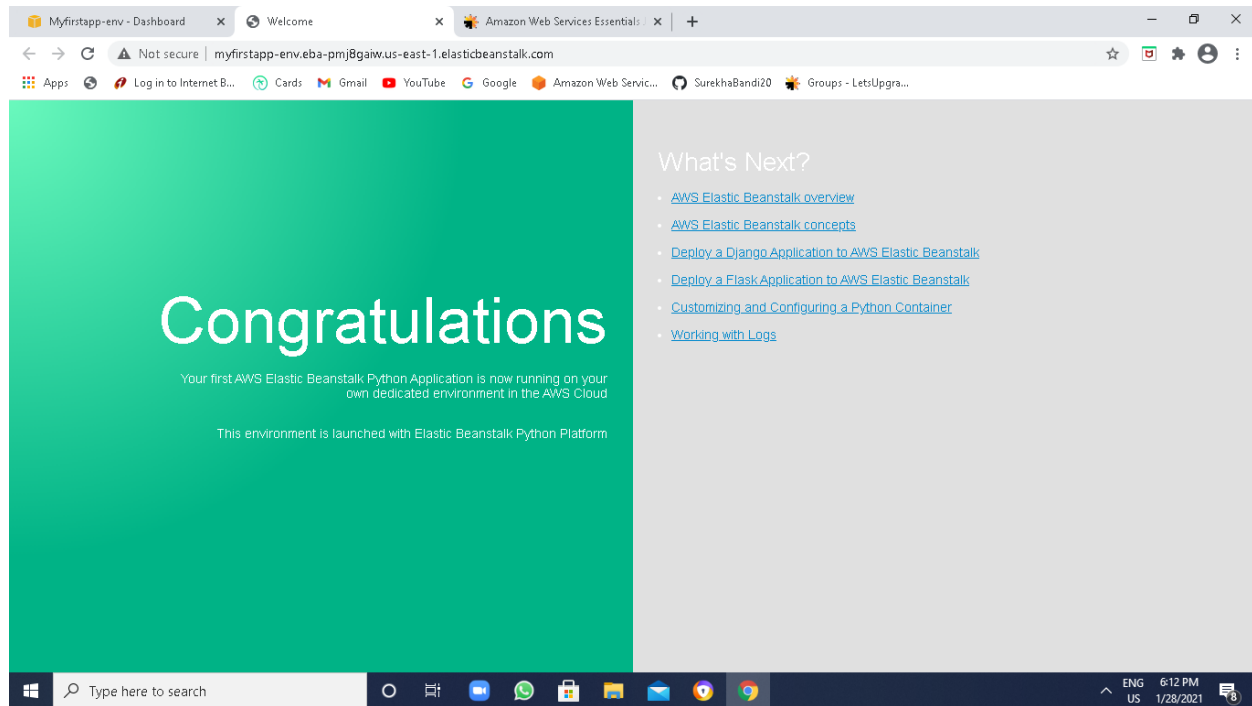
The screenshot shows the AWS Elastic Beanstalk Environments console. The left sidebar has a menu with 'Environments' (selected), 'Applications', and 'Change history'. Below this is a section for 'Recent environments' showing 'Myfirstapp-env'. The main content area is titled 'All environments' and includes a search bar and a 'Create a new environment' button. A table lists the environments:

Environment name	Health	Application name	Date created	Last modified	URL	Running versions
Myfirstapp-env	OK	myfirstapp	2021-01-28 17:58:53 UTC+0530	2021-01-28 18:03:51 UTC+0530	Myfirstapp-env.elb.amazonaws.com	Sample Application

The bottom of the screenshot shows the Windows taskbar with various application icons and the system clock indicating 6:10 PM on 1/28/2021.



- Access the deployed application with the env URL



Question 4

Working with dynamodb

- Create table

The screenshot shows the AWS DynamoDB console interface. The left sidebar contains navigation links for 'Create table', 'Delete table', and a search bar. The main content area displays the 'productcatalog' table overview. It includes tabs for 'Overview', 'Items', 'Metrics', 'Alarms', 'Capacity', 'Indexes', 'Global Tables', 'Backups', and 'Contributor Insights'. The 'Overview' tab is active, showing 'Recent alerts' (no alarms triggered), 'Kinesis data stream details' (stream disabled), and 'DynamoDB stream details' (stream disabled). The bottom of the screen shows the Windows taskbar with various application icons and the system clock.

- Add items into the table

The screenshot shows the AWS DynamoDB console interface with the 'productcatalog' table selected. The left sidebar shows the 'Tables' section. The main content area displays the 'Items' tab, showing a list of items. The 'Scan' button is visible, and the 'Create item' button is also present. The table structure is shown with columns 'vehicle' and 'model'. The 'vehicle' column has values 'bicycle', 'car', and 'car'. The 'model' column has values 'kios', 'mountain bikes', 'electric', 'petrol', 'diesel', and 'electric car'. The bottom of the screen shows the Windows taskbar with various application icons and the system clock.

- Execute a query to filter using primary and sort key

The screenshot shows the AWS DynamoDB console interface. On the left, the 'DynamoDB' sidebar is visible with options like 'Dashboard', 'Tables', 'Backups', 'Reserved capacity', 'Preferences', and 'DAX'. The 'Tables' section is active, showing a list of tables with 'productcatalog' selected. The main panel displays the 'productcatalog' table details, including 'Overview', 'Items', 'Metrics', 'Alarms', 'Capacity', 'Indexes', 'Global Tables', 'Backups', and 'More'. The 'Items' tab is selected, showing a query interface. The query is set to '[Table] productcatalog: vehicle, model'. The 'Partition key' is 'vehicle' (String) with a value of 'bicycle'. The 'Sort key' is 'model' (String) with a value of 'electric'. The 'Sort' order is set to 'Ascending'. The results show 1 to 3 items, with the first item being 'bicycle' (electric).

vehicle	model
bicycle	electric

This screenshot is similar to the first one, but the query results show only 1 item. The query is still '[Table] productcatalog: vehicle, model'. The 'Partition key' is 'vehicle' (String) with a value of 'bicycle'. The 'Sort key' is 'model' (String) with a value of 'electric'. The 'Sort' order is set to 'Ascending'. The results show 1 to 1 items, with the first item being 'bicycle' (electric).

vehicle	model
bicycle	electric