

ASSIGNMENT FOR DAY 2

ASSIGNMENT 2: Creating EC2 instance

1. Choosing an AMI

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Support

1. Choose AMI

2. Choose Instance Type

3. Configure Instance

4. Add Storage

5. Add Tags

6. Configure Security Group

7. Review

Cancel and Exit

Step 1: Choose an Amazon Machine Image (AMI)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user community, or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Search by Systems Manager parameter

Quick Start

My AMIs

AWS Marketplace

Community AMIs

Free tier only

Amazon Linux

Free tier eligible

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-087c17d1fe0178315 (64-bit x86) / ami-029c64b3c205e6cce (64-bit Arm)

Amazon Linux 2 comes with five years support. It provides Linux kernel 4.14 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is approaching end of life on December 31, 2020 and has been removed from this wizard.

Root device type: ebs Virtualization type: hvm ENA Enabled: Yes

64-bit (x86)

64-bit (Arm)

Red Hat

Free tier eligible

Red Hat Enterprise Linux 8 (HVM), SSD Volume Type - ami-0b0af3577fe5e3532 (64-bit x86) / ami-01fc429821bf1f4b4 (64-bit Arm)

64-bit (x86)

Feedback

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2. Choosing an instance type:

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Step 2: Choose an Instance Type

Amazon EC2 provides a wide selection of instance types optimized to fit different use cases. Instances are virtual servers that can run applications. They have varying combinations of CPU, memory, storage, and networking capacity, and give you the flexibility to choose the appropriate mix of resources for your applications. [Learn more](#) about instance types and how they can meet your computing needs.

Filter by: All instance families Current generation Show/Hide Columns

Currently selected: t2.micro (- ECUs, 1 vCPUs, 2.5 GHz, -, 1 GiB memory, EBS only)

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance	IPv6 Support
<input type="checkbox"/>	t2	t2.nano	1	0.5	EBS only	-	Low to Moderate	Yes
<input checked="" type="checkbox"/>	t2	t2.micro Free tier eligible	1	1	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.small	1	2	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.medium	2	4	EBS only	-	Low to Moderate	Yes
<input type="checkbox"/>	t2	t2.large	2	8	EBS only	-	Low to Moderate	Yes

Cancel

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Review and Launch

Next: Configure Instance Details

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3. Configure instance:

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 3: Configure Instance Details

IAM role ⓘ

None

↕

↻

Create new IAM role

Shutdown behavior ⓘ

Terminate

↕

Stop - Hibernate behavior ⓘ

☐ Enable hibernation as an additional stop behavior

Enable termination protection ⓘ

☒ Protect against accidental termination

Monitoring ⓘ

☐ Enable CloudWatch detailed monitoring

Additional charges apply.

Tenancy ⓘ

Shared - Run a shared hardware instance

↕

Additional charges will apply for dedicated tenancy.

Elastic Inference ⓘ

☐ Add an Elastic Inference accelerator

Additional charges apply.

Credit specification ⓘ

☐ Unlimited

Additional charges may apply

Cancel

Previous

Review and Launch

Next: Add Storage

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4. Adding storage:

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1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Add Tags6. Configure Security Group7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encryption ⓘ
Root	/dev/xvda	snap-0699a041095ac5492	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt ▾

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Cancel

Previous

Review and Launch

Next: Add Tags

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5. Adding tags:

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Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver. A copy of a tag can be applied to volumes, instances or both. Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances	Volumes	Network Interfaces
Name	Server123	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Add another tag (Up to 50 tags maximum)

Cancel

Previous

Review and Launch

Next: Configure Security Group

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6. Configure security group:

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Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group:

☒ Create a new security group

☐ Select an existing security group

Security group name:

virtualfirewall123

Description:

launch-wizard-1 created 2021-09-28T22:15:37.308+05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

Add Rule

Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Cancel

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7. Review and launch:

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Step 7: Review Instance Launch

t2.micro	-	1	1	EBS only	-	Low to Moderate
----------	---	---	---	----------	---	-----------------

Security Groups

Edit security groups

Security group name

virtualfirewall123

Description

launch-wizard-1 created 2021-09-28T22:15:37.308+05:30

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	0.0.0.0/0	

Instance Details

Edit instance details

Storage

Edit storage

Tags

Edit tags

Cancel

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8. Creating a key pair

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1. Choose AMI

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3. Configure Instance

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Step 7: Review Instance Launch

Select an existing key pair or create a new key pair

X

A key pair consists of a **public key** that AWS stores, and a **private key file** that you store. Together, they allow you to connect to your instance securely. For Windows AMIs, the private key file is required to obtain the password used to log into your instance. For Linux AMIs, the private key file allows you to securely SSH into your instance. Amazon EC2 supports ED25519 and RSA key pair types.

Note: The selected key pair will be added to the set of keys authorized for this instance. Learn more about [removing existing key pairs from a public AMI](#).

Create a new key pair

Key pair type

☒ RSA ☐ ED25519

Key pair name

jasvinder123

Download Key Pair

You have to download the **private key file** (*.pem file) before you can continue. **Store it in a secure and accessible location.** You will not be able to download the file again after it's created.

Cancel

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9. Connecting with instance:

The screenshot shows the AWS Management Console interface. On the left is a navigation menu with options like 'EC2 Dashboard', 'Events', 'Tags', 'Limits', and 'Instances'. The main area displays the 'Instances (1/1)' page. A table lists the instance 'Server123' with ID 'i-03f2ee9bda0a7f595', status 'Running', type 't2.micro', and availability zone 'us-east-1b'. Below the table, a detailed view for the selected instance is shown, including tabs for 'Details', 'Security', 'Networking', 'Storage', 'Status checks', 'Monitoring', and 'Tags'. The 'Details' tab is active, showing the instance summary with its ID, public IPv4 address (18.233.226.106), and private IPv4 addresses (172.31.80.225).

10. Virtual server running on aws:

```
grub2-tools.x86_64 1:2.06-2.amzn2.0.6
grub2-tools-extra.x86_64 1:2.06-2.amzn2.0.6
kernel.x86_64 0:4.14.246-187.474.amzn2

Updated:
curl.x86_64 0:7.76.1-7.amzn2.0.2
device-mapper-event.x86_64 7:1.02.170-6.amzn2.5
device-mapper-libs.x86_64 7:1.02.170-6.amzn2.5
glibc-all-langpacks.x86_64 0:2.26-54.amzn2
glibc-locale-source.x86_64 0:2.26-54.amzn2
grub2-common.noarch 1:2.06-2.amzn2.0.6
grub2-pc-modules.noarch 1:2.06-2.amzn2.0.6
libblkid.x86_64 0:2.30.2-2.amzn2.0.5
libcurl.x86_64 0:7.76.1-7.amzn2.0.2
libmount.x86_64 0:2.30.2-2.amzn2.0.5
libuuid.x86_64 0:2.30.2-2.amzn2.0.5
lvm2-libs.x86_64 7:2.02.187-6.amzn2.5
systemd.x86_64 0:219-78.amzn2.0.15
systemd-sysv.x86_64 0:219-78.amzn2.0.15

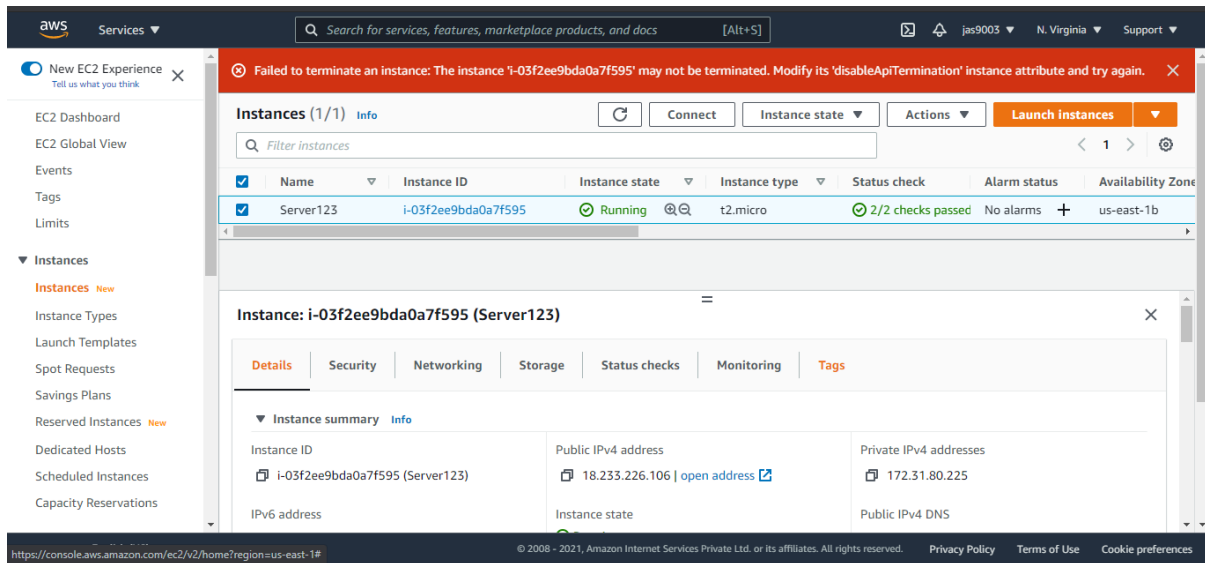
Replaced:
grub2.x86_64 1:2.06-2.amzn2.0.3

Complete!
[ec2-user@ip-172-31-80-225 ~]$
```

i-03f2ee9bda0a7f595 (Server123)

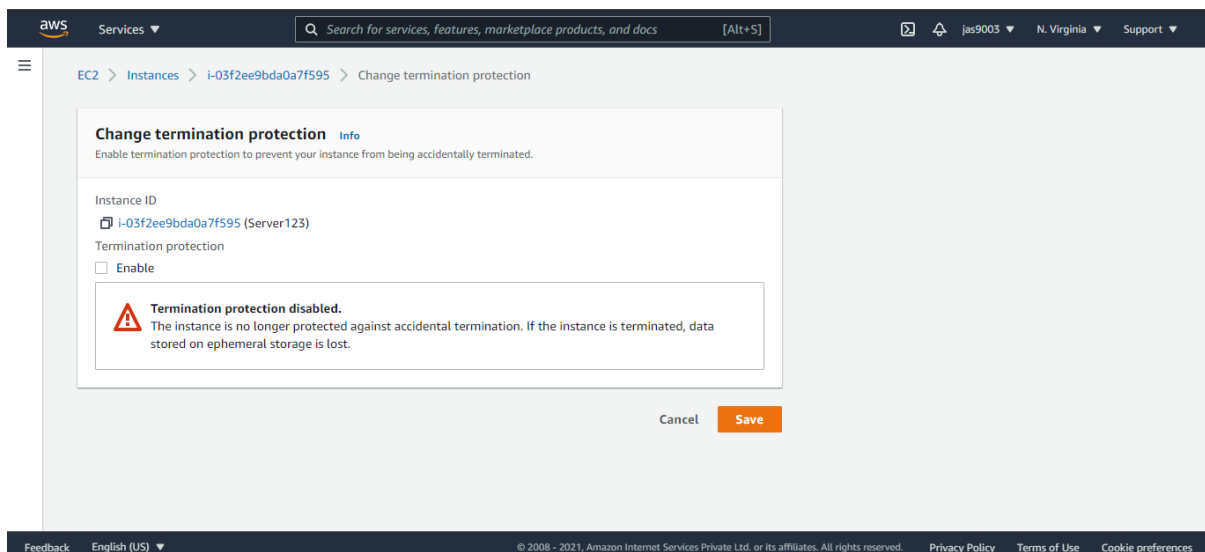
Public IPs: 18.233.226.106 Private IPs: 172.31.80.225

11. Failed to terminate instance because protection enabled:



The screenshot shows the AWS Management Console interface. At the top, a red error banner states: "Failed to terminate an instance: The instance 'i-03f2ee9bda0a7f595' may not be terminated. Modify its 'disableApiTermination' instance attribute and try again." Below this, the "Instances (1/1)" page is displayed, showing a table with one instance: "Server123" (ID: i-03f2ee9bda0a7f595) in a "Running" state. The instance details panel for "Server123" is open, showing its configuration: Instance ID, Public IPv4 address (18.233.226.106), Private IPv4 addresses (172.31.80.225), and Instance state (Running). The "Tags" tab is selected, showing no tags. The footer of the console displays the URL: "https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#".

12. Changing termination setting:



The screenshot shows the "Change termination protection" page in the AWS Management Console for instance "i-03f2ee9bda0a7f595". The page title is "Change termination protection" with an "Info" link. Below the title, it says "Enable termination protection to prevent your instance from being accidentally terminated." The "Instance ID" is "i-03f2ee9bda0a7f595 (Server123)". The "Termination protection" section shows a checkbox labeled "Enable" which is currently unchecked. A warning message is displayed: "Termination protection disabled. The instance is no longer protected against accidental termination. If the instance is terminated, data stored on ephemeral storage is lost." At the bottom of the page, there are "Cancel" and "Save" buttons. The footer of the console displays the URL: "https://console.aws.amazon.com/ec2/v2/home?region=us-east-1#".

13. Now instance is terminated after disabling:

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Support

New EC2 Experience

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Scheduled Instances

Capacity Reservations

Disabled termination protection for i-03f2ee9bda0a7f595

Successfully terminated i-03f2ee9bda0a7f595

Instances (1/1)

Filter instances

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
<input checked="" type="checkbox"/>	Server123	i-03f2ee9bda0a7f595	Shutting-down	t2.micro	2/2 checks passed	No alarms	us-east-1b

Instance: i-03f2ee9bda0a7f595 (Server123)

Details

Security

Networking

Storage

Status checks

Monitoring

Tags

Instance summary

Instance ID

i-03f2ee9bda0a7f595 (Server123)

IPv6 address

Public IPv4 address

18.233.226.106 | open address

Instance state

Private IPv4 addresses

172.31.80.225

Public IPv4 DNS

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Assignment 3: Working with EB volumes

1. Creating volume:

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Volumes > Create Volume

Create Volume

Volume Type

General Purpose SSD (gp2)

Size (GiB)

100

(Min: 1 GiB, Max: 16384 GiB)

IOPS

300 / 3000

(Baseline of 3 IOPS per GiB with a minimum of 100 IOPS, burstable to 3000 IOPS)

Throughput (MB/s)

Not applicable

Availability Zone*

us-east-1a

Snapshot ID

Select a snapshot

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2. Volume created:

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Support

Volumes > Create Volume

Create Volume

Volume created successfully

Volume ID vol-0d1fab9c6e6fb35e7

Close

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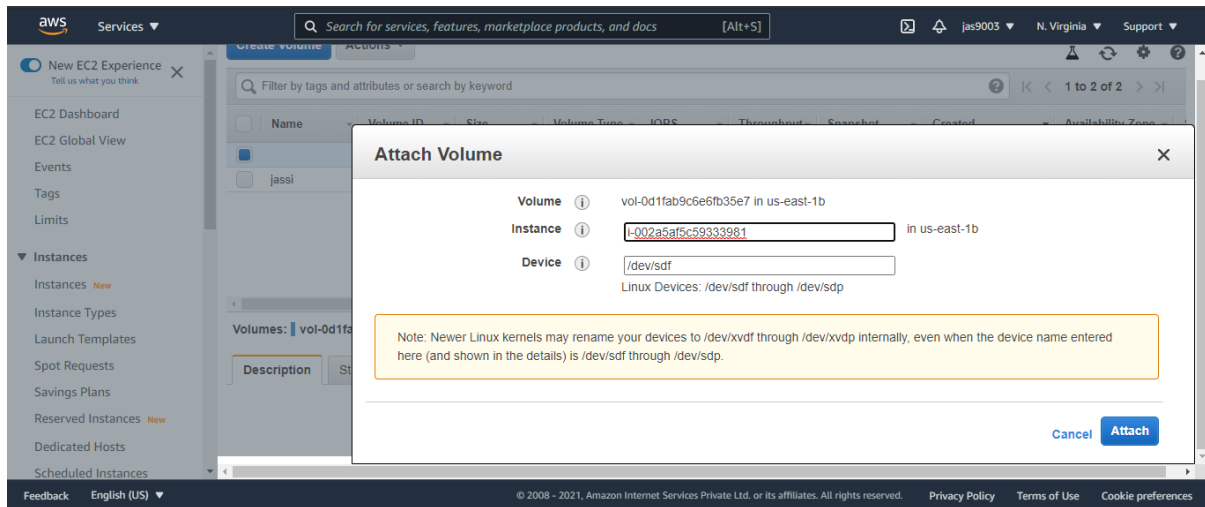
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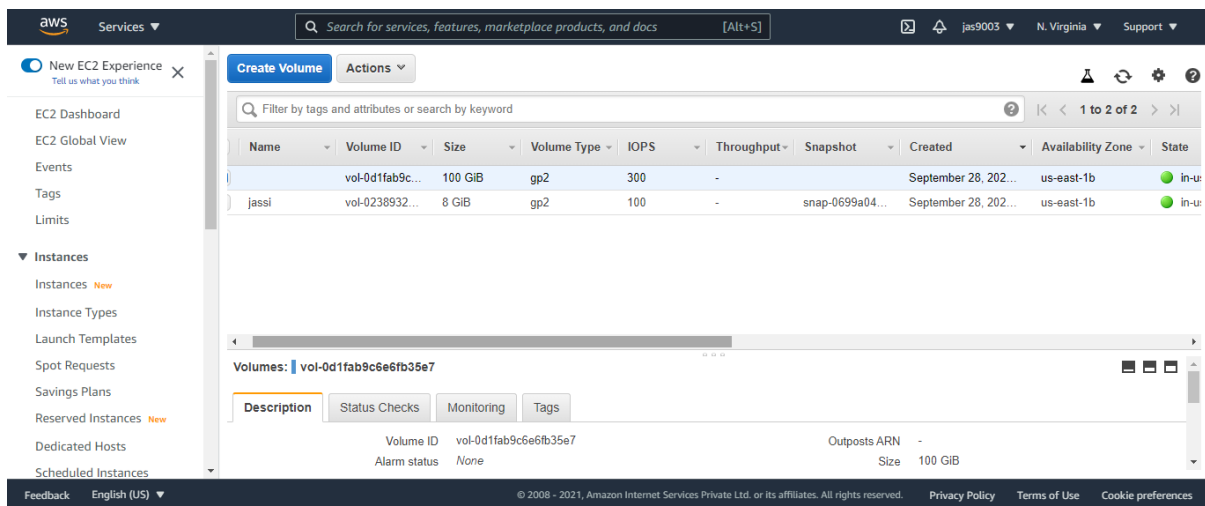
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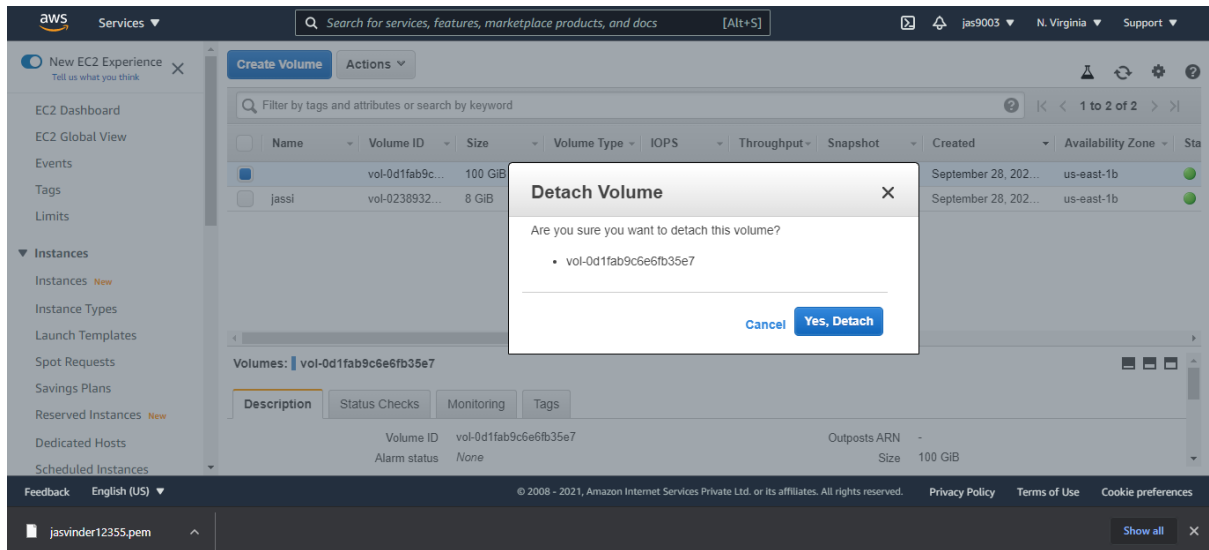
3. Attaching the volume:



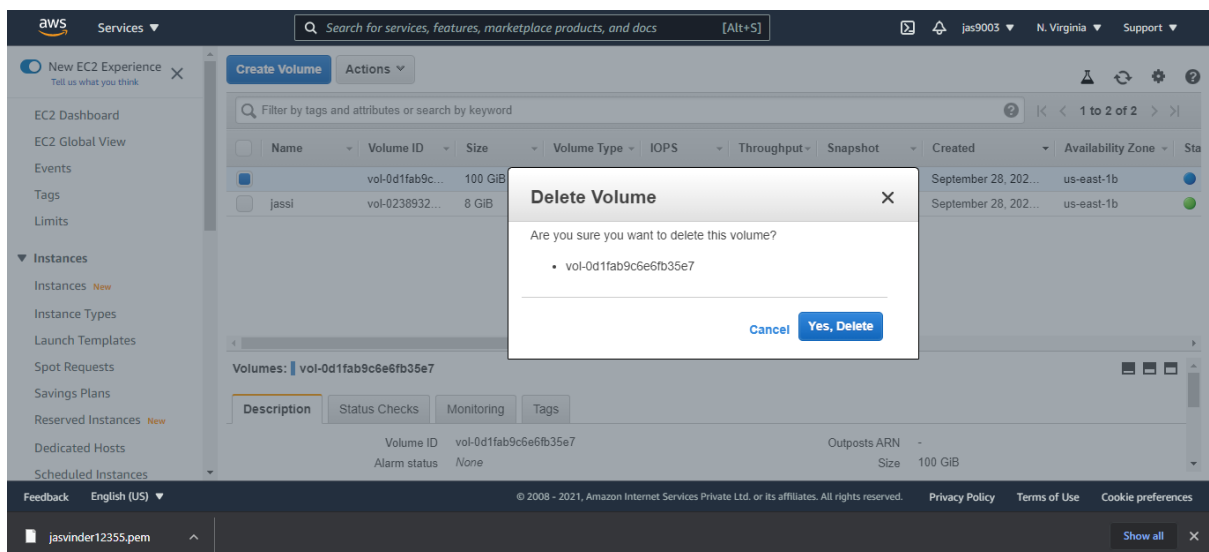
4. Volume attached:



5. Detach volume:



6. Delete volume:



7. Volume deleted:

The screenshot displays the AWS Management Console interface for an Amazon EBS volume. The volume is named 'jassi' and has the ID 'vol-02389324589625d41'. It is an 8 GiB gp2 volume with 100 IOPS. The volume was created on September 28, 2021, in the us-east-1b availability zone. The volume is in the 'deleted' state, as indicated by the green status icon. The console shows the volume details, including its size, type, and IOPS. The volume was created from a snapshot 'snap-0699a04...'. The console also shows the volume's description, status checks, monitoring, and tags.

Name	Volume ID	Size	Volume Type	IOPS	Throughput	Snapshot	Created	Availability Zone	Status
jassi	vol-0238932...	8 GiB	gp2	100	-	snap-0699a04...	September 28, 202...	us-east-1b	Deleted

Volumes: **vol-02389324589625d41 (jassi)**

Description | Status Checks | Monitoring | Tags

Volume ID: vol-02389324589625d41
Alarm status: None
Outposts ARN: -
Size: 8 GiB

Assignment 4: Working with elastic beanstalk:

1. Deploying sample application:

The screenshot shows the AWS Elastic Beanstalk console. The left sidebar has a search bar and a navigation menu with 'Environments', 'Applications', and 'Change history'. Under 'Environments', 'jasvinder123' is expanded, showing 'Application versions' and 'Saved configurations'. Under 'Applications', 'Jasvinder123-env' is selected, showing 'Go to environment', 'Configuration', 'Logs', 'Health', 'Monitoring', and 'Alarms'. The main content area displays the 'Jasvinder123-env' environment details. It includes a 'Health' section with a green checkmark and 'Ok' status, a 'Running version' section with 'Sample Application' and an 'Upload and deploy' button, and a 'Platform' section with the Python logo and 'Python 3.8 running on 64bit Amazon Linux 2/3.3.5'. A 'Refresh' button and an 'Actions' dropdown are at the top right. A blue informational banner at the top states: 'On September, 2021, we are enabling this option by default for all new environments (no impact on existing environments). If you are using a custom instance profile instead of a managed policy, your environment might show the No Data health status. This happens because the instances aren't authorized for the action that communicates enhanced health data to the service. To authorize the action, add permission to your instance profile according to [Enhanced health authorization](#) in the [Amazon Elastic Beanstalk Developer Guide](#).' The footer shows 'Feedback', 'English (US)', and copyright information.

2. Creating another environment with same application:

The screenshot shows the AWS Elastic Beanstalk console with the 'Environment information' form. The left sidebar is the same as the previous screenshot. The main content area shows the 'Environment information' form with the following fields: 'Application name' (jasvinder123), 'Environment name' (Jasvinder123-env-1), 'Domain' (Leave blank for autogenerated value, .us-east-1.elasticbeanstalk.), and 'Description' (empty text area). A 'Check availability' button is below the domain field. The breadcrumb navigation at the top reads 'Elastic Beanstalk > Applications > jasvinder123'. The footer is the same as the previous screenshot.

3. Different environment created for same application:

The screenshot shows the AWS Elastic Beanstalk console. The left sidebar has 'Elastic Beanstalk' selected. The main content area is titled 'All environments'. It shows a table with two environments, both for the application 'jasvinder123'. Both environments are in 'OK' health status.

Environment name	Health	Application name	Date created	Last modified	URL	Running versions
Jasvinder123-env	OK	jasvinder123	2021-09-28 23:22:15 UTC+0530	2021-09-28 23:25:59 UTC+0530	Jasvinder123-env-3whqbzrm.us-east-1.elasticbeanstalk.com	Sample Application
Jasvinder123-env-1	OK	jasvinder123	2021-09-28 23:48:18 UTC+0530	2021-09-28 23:52:53 UTC+0530	Jasvinder123-env-1.eba-3whqbzrm.us-east-1.elasticbeanstalk.com	Sample Application

4. Different environment & different versions are created:

The screenshot shows the AWS Elastic Beanstalk console, specifically the 'Application versions' page for the application 'jasvinder123'. A notification banner at the top states: 'Info The deployment to Jasvinder123-env-2 started successfully. See the events page.' Below this is a table of application versions.

Version label	Description	Date created	Source	Deployed to
Sample Application-2		2021-09-29T12:53:11+05:30	2021272StP-a.jsp	-
version2		2021-09-29T00:57:04+05:30	2021271Zwh-New.java	-
Sample Application-1		2021-09-29T00:00:24+05:30	2021271twj-Screenshot 2021-09-17 135925.png	-
Sample Application		2021-09-28T23:22:12+05:30	Sample Application	Jasvinder123-env, Jasvinder123-env-1, Jasvinder123-env-2

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Support

Elastic Beanstalk

Environments

Applications

Change history

Recent environments

Jasvinder123-env-2

Jasvinder123-env-1

Jasvinder123-env

Elastic Beanstalk > Applications

Info

The deployment to Jasvinder123-env started successfully. See the events page.

All applications

Filter results matching the display values

Application name	Environments	Date created	Last modified	ARN
jasvinder123	Jasvinder123-env Jasvinder123-env-1 Jasvinder123-env-2	2021-09-28 23:21:37 UTC+0530	2021-09-28 23:21:37 UTC+0530	arn:aws:elasticbeanstalk:us-east-1:981656921488:application/jasvinder123

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Assignment 5: Working with S3

1. Creating S3 bucket:

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Global

Support

Amazon S3 > Create bucket

Create bucket

Buckets are containers for data stored in S3. Learn more

General configuration

Bucket name

jasvinderbuck

Bucket name must be unique and must not contain spaces or uppercase letters. See rules for bucket naming

AWS Region

US East (N. Virginia) us-east-1

Copy settings from existing bucket - optional

Only the bucket settings in the following configuration are copied.

Choose bucket

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2. Bucket created:

The screenshot shows the Amazon S3 console interface. A green notification banner at the top states: "Successfully created bucket 'jasvinderbuck'. To upload files and folders, or to configure additional bucket settings choose View details." The left sidebar contains the navigation menu with options like Buckets, Access Points, and Storage Lens. The main content area displays the "Buckets (1)" section, showing a table with one bucket: "jasvinderbuck" in the "US East (N. Virginia) us-east-1" region, with "Bucket and objects not public" access and a creation date of "September 28, 2021, 23:03:34 (UTC+05:30)".

Name	AWS Region	Access	Creation date
jasvinderbuck	US East (N. Virginia) us-east-1	Bucket and objects not public	September 28, 2021, 23:03:34 (UTC+05:30)

3. File uploaded on bucket:

The screenshot shows the "Upload: status" page in the Amazon S3 console. A green notification banner at the top states: "Upload succeeded. View details below." The page has a "Close" button in the top right. Below the banner, there is a summary section with a table showing the upload status. The destination is "s3://jasvinderbuck". The summary table shows "Succeeded" with "1 file, 70.6 KB (100.00%)" and "Failed" with "0 files, 0 B (0%)". Below the summary, there are tabs for "Files and folders" and "Configuration". The "Files and folders" tab is active, showing "Files and folders (1 Total, 70.6 KB)".

Destination	Succeeded	Failed
s3://jasvinderbuck	1 file, 70.6 KB (100.00%)	0 files, 0 B (0%)

4. Changing bucket setting to access object publicly:

The screenshot shows the AWS console interface for editing bucket settings. The top navigation bar includes the AWS logo, 'Services' dropdown, a search bar, and user information 'jas9003'. The main header reads 'Edit Block public access (bucket settings)' with an 'Info' link. The content area is titled 'Block public access (bucket settings)' and contains a paragraph explaining that public access is granted through ACLs, bucket policies, or access point policies. Below this, there are five unchecked checkboxes for different settings: 'Block all public access', 'Block public access to buckets and objects granted through new access control lists (ACLs)', 'Block public access to buckets and objects granted through any access control lists (ACLs)', 'Block public access to buckets and objects granted through new public bucket or access point policies', and 'Block public and cross-account access to buckets and objects through any public bucket or access point policies'. Each checkbox has a brief description of its effect. The footer contains 'Feedback', 'English (US)', copyright information, and links for 'Privacy Policy', 'Terms of Use', and 'Cookie preferences'.

5. Settings changed:

The screenshot shows the AWS console after a successful update. A green banner at the top states 'Successfully edited Block Public Access settings for this bucket.' Below this, the breadcrumb 'Amazon S3 > jasvinderbuck' is visible. The bucket name 'jasvinderbuck' is displayed with an 'Info' link. A tabbed interface shows 'Objects', 'Properties', 'Permissions' (selected), 'Metrics', 'Management', and 'Access Points'. The 'Permissions overview' section shows 'Access' and 'Objects can be public'. The 'Block public access (bucket settings)' section is also visible at the bottom, showing the same explanatory text as in the previous screenshot. The footer is identical to the previous screenshot.

6. Object also made public:

The screenshot shows the AWS Management Console interface for the 'Make public' action on an S3 object. The breadcrumb navigation shows 'Amazon S3 > jasvinderbuck > Make public'. The page title is 'Make public' with an 'Info' link. A warning message states: 'When public read access is enabled and not blocked by Block Public Access settings, anyone in the world can access the specified objects.' Below this, the 'Specified objects' section contains a search bar and a table with one object listed.

Name	Type	Last modified	Size
5e1390cc4b55b050fb463ba4_Main Logo (transparent BG) 1200px by 630px.png	png	September 28, 2021, 23:13:38 (UTC+05:30)	46.7 KB

At the bottom of the 'Specified objects' section are 'Cancel' and 'Make public' buttons. The footer of the console shows 'Feedback', 'English (US)', and copyright information for 2008-2021.

7. Now object is opening with public link:

