

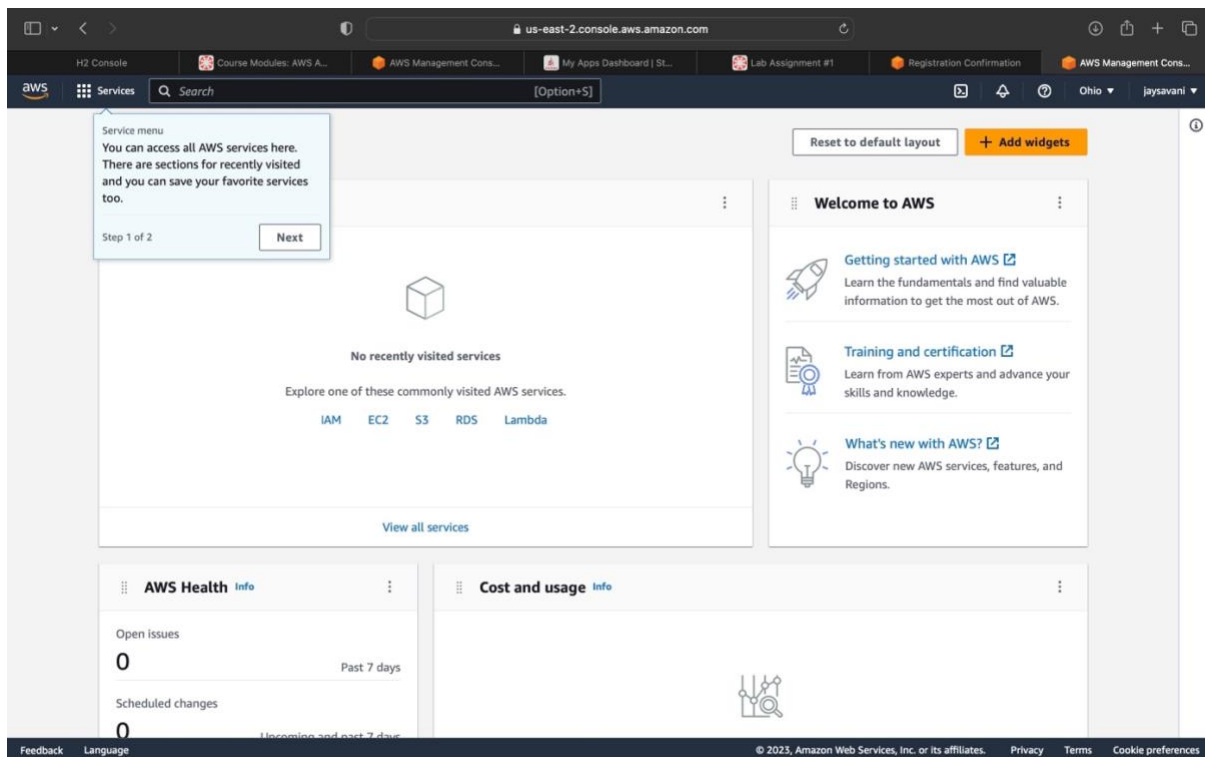
CS 524 Lab Assignment 1

Jay Kalyanbhai Savani

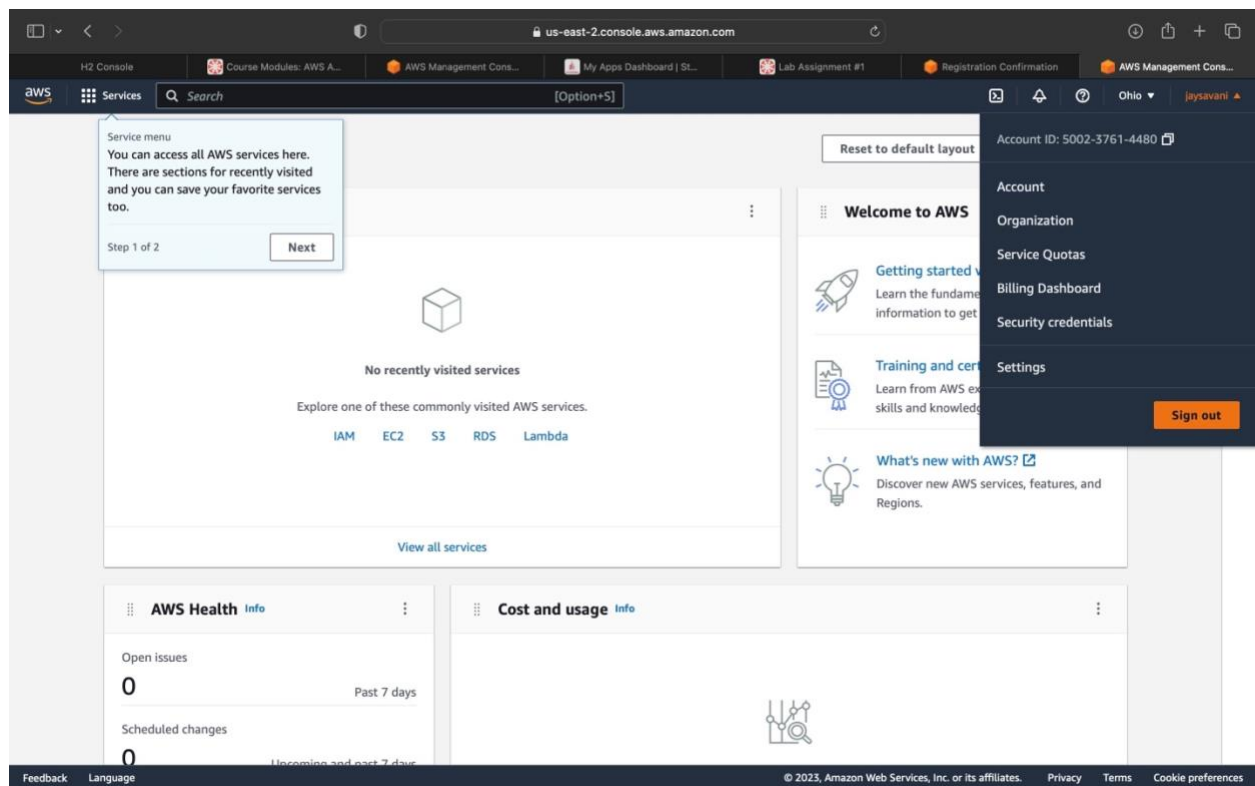
CWID-20009207

Part-1

Created Account at Home Page



Here we can see the ID of my Account



A page for CREATE QUEUE

The screenshot shows the Amazon SQS console in the us-east-2 region. The page is titled "Amazon SQS" and "Message queuing service". It includes a "Get started" section with a "Create queue" button, a "Pricing (US)" section, and a "Documentation" section. A "How it works" diagram illustrates the flow from Producers to Amazon SQS and then to Consumers. A "Service menu" tooltip is visible on the left.

Service menu
You can access all AWS services here. There are sections for recently visited and you can save your favorite services too.
Step 1 of 2 [Next](#)

Amazon SQS

Message queuing service

Amazon SQS provides queues for high-throughput, system-to-system messaging. You can use queues to decouple heavyweight processes and to buffer and batch work. Amazon SQS stores messages until microservices and serverless applications process them.

Get started

Learn how to use Amazon SQS by creating a queue, sending a message to the queue, and receiving and processing the message.

[Create queue](#)

Pricing (US)

You can get started with Amazon SQS for free. All customers can make 1 million Amazon SQS requests for free each month. Some applications might be able to operate within this Free Tier limit.

[Cost calculator](#)

Documentation

[Developer guide](#)

How it works

```
graph LR; Producers[Producers: Messages are sent from applications, microservices, and other AWS services] --> AmazonSQS[Amazon SQS]; AmazonSQS --> SQSQueue[SQS Queue: Queue stores messages and wait for consumers to poll]; SQSQueue --> Consumers[Consumers: Messages are processed by applications, Lambda Functions, EC2 instances, and other AWS services];
```

Benefits and features

Feedback Language © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Creating the Queue As jaysavani

The screenshot shows the AWS Management Console interface for creating a new Amazon SQS queue. The browser address bar indicates the URL is `us-east-2.console.aws.amazon.com`. The top navigation bar includes the AWS logo, a search bar, and the user's name 'jaysavani'. The breadcrumb trail shows the path: `Amazon SQS > Queues > Create queue`.

The main content area is titled 'Create queue' and is divided into two main sections: 'Details' and 'Configuration'.

Details Section:

- Type:** Choose the queue type for your application or cloud infrastructure.
 - ☒ **Standard** Info
At-least-once delivery, message ordering isn't preserved
 - At-least once delivery
 - Best-effort ordering
 - ☐ **FIFO** Info
First-in-first-out delivery, message ordering is preserved
 - First-in-first-out delivery
 - Exactly-once processing
- Warning:** You can't change the queue type after you create a queue.
- Name:**
A queue name is case-sensitive and can have up to 80 characters. You can use alphanumeric characters, hyphens (-), and underscores (_).

Configuration Section:

Set the maximum message size, visibility to other consumers, and message retention. [Info](#)

Visibility timeout Info: Seconds ▼

Message retention period Info: Days ▼

The footer of the console includes links for 'Feedback', 'Language', and 'Cookie preferences', along with the copyright notice: '© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms'.

Details of the Queue Created

The screenshot displays the AWS Management Console interface for an Amazon SQS queue named 'jaysavani' in the 'us-east-2' region. A green notification banner at the top states 'Queue jaysavani created successfully' and 'You can now send and receive messages.' The breadcrumb navigation shows 'Amazon SQS > Queues > jaysavani'. The queue name 'jaysavani' is prominently displayed, followed by action buttons: 'Edit', 'Delete', 'Purge', 'Send and receive messages', and 'Start DLQ redrive'. Below this, the 'Details' tab is active, showing a table with the following information:

Name	Type	ARN
jaysavani	Standard	arn:aws:sqs:us-east-2:500237614480:jaysavani
Encryption	URL	Dead-letter queue
Amazon SQS key (SSE-SQS)	https://sqs.us-east-2.amazonaws.com/500237614480/jaysavani	-

A 'More' link is available below the table. Below the details section, there are tabs for 'SNS subscriptions', 'Lambda triggers', 'Dead-letter queue', 'Monitoring', 'Tagging', 'Access policy', 'Encryption', and 'Dead-letter queue redrive tasks'. The 'SNS subscriptions' tab is selected, showing a 'Subscription region' dropdown set to 'us-east-2'. Below this, it indicates 'SNS subscriptions (0)' and provides buttons for 'View in SNS', 'Delete', and 'Subscribe to Amazon SNS topic'. The footer of the console shows 'Feedback', 'Language', '© 2023, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

Status of the Queue

The screenshot displays the AWS Management Console interface for the 'us-east-2' region. The top navigation bar includes the AWS logo, a search bar, and a list of services. The main content area is titled 'Amazon SQS > Queues'. Below this, there is a section for 'Queues (1)' with a search bar and a table of queues. The table has columns for Name, Type, Created, Messages available, Messages in flight, Encryption, and Content-based deduplication. A single queue named 'jaysavani' is listed with a 'Standard' type, created on 'Mar 07, 2023 at 18:15:09 EST', with 0 messages available and 0 in flight. The encryption is set to 'Amazon SQS key (SSE-SQS)' and content-based deduplication is '-'. The bottom of the console shows a footer with 'Feedback', 'Language', and copyright information.

us-east-2 console.aws.amazon.com

H2 Console Course Modules: AWS A... AWS Management Cons... My Apps Dashboard | St... Lab Assignment #1 Registration Confirmation Amazon SQS

Services Search [Option+S]

Amazon SQS > Queues

Queues (1)

Search queues by prefix

Name	Type	Created	Messages available	Messages in flight	Encryption	Content-based deduplication
jaysavani	Standard	Mar 07, 2023 at 18:15:09 EST	0	0	Amazon SQS key (SSE-SQS)	-

Feedback Language © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Sending the message using Queues

The screenshot displays the AWS Management Console interface for an Amazon SQS queue named 'jaysavani'. The page is titled 'Send and receive messages' and includes a sub-header 'Send messages to and receive messages from a queue.'.

Send message section:

- Buttons:** 'Clear content' and 'Send message'.
- Message body:** A text area containing the message: 'Multitasking: Programmers are often required to work on multiple tasks simultaneously, and they possess a unique ability to manage their time effectively and prioritize tasks based on their importance.'
- Delivery delay:** A dropdown menu set to '0' seconds.
- Message attributes:** A link for 'Optional info'.

Receive messages section:

- Buttons:** 'Edit poll settings', 'Stop polling', and 'Poll for messages'.
- Messages available:** 1
- Polling duration:** 30
- Maximum message count:** 10
- Polling progress:** 0% (0 receives/second)

Footer: The footer includes 'Feedback', 'Language', '© 2023, Amazon Web Services, Inc. or its affiliates.', 'Privacy', 'Terms', and 'Cookie preferences'.

Message Details And Polling Progress

The screenshot shows the AWS Management Console interface for an Amazon SQS queue named 'jaysavani'. The 'Send message' section is active, showing a confirmation message: 'Your message has been sent and is ready to be received.' A modal window displays the details of the sent message:

ID	MD5 of message body	MD5 of message attributes
aa1c6eb7-b34a-48e5-9f38-9efa4e5ae81f	cb4787b84eb7eb6fe6ce181fa77a408f	-

The 'Receive messages' section shows 1 message available, a polling duration of 30 seconds, a maximum message count of 10, and a polling progress of 0%.

The screenshot shows the AWS Management Console interface for the same Amazon SQS queue. The 'Receive messages' section is active, showing 2 messages available, a polling duration of 30 seconds, a maximum message count of 10, and a polling progress of 27% (2 receives/second). A list of messages is displayed:

ID	Sent	Size	Receive count
aa1c6eb7-b34a-48e5-9f38-9efa4e5ae81f	Mar 07, 2023 at 18:19:49 EST	201 bytes	1
d079ed89-bd19-416b-ae82-9ddd413aede0	Mar 07, 2023 at 18:19:06 EST	201 bytes	1

Polling Messages Progress and Deleted the Messages successfully

Message body
Enter the message to send to the queue.

Delivery delay [Info](#)
 Seconds ▾
Should be between 0 seconds and 15 minutes.
► [Message attributes - Optional info](#)

Receive messages [Info](#) [Edit poll settings](#) [Stop polling](#) [Poll for messages](#)

Messages available	Polling duration	Maximum message count	Polling progress
2	30	10	0.1 receives/second

Messages (2) [View details](#) [Delete](#)

<input type="checkbox"/>	ID	Sent	Size	Receive count
<input type="checkbox"/>	aa1c6eb7-b34a-48e5-9f38-9efa4e5ae81f	Mar 07, 2023 at 18:19:49 EST	201 bytes	2
<input type="checkbox"/>	d079ed89-bd19-416b-ae82-9ddd413aede0	Mar 07, 2023 at 18:19:06 EST	201 bytes	2

Message body
Enter the message to send to the queue.

Delivery delay [Info](#)
 Seconds ▾
Should be between 0 seconds and 15 minutes.
► [Message attributes - Optional info](#)

Receive messages [Info](#) [Edit poll settings](#) [Stop polling](#) [Poll for messages](#)

2 messages deleted successfully.

Messages available	Polling duration	Maximum message count	Polling progress
0	30	10	0.1 receives/second

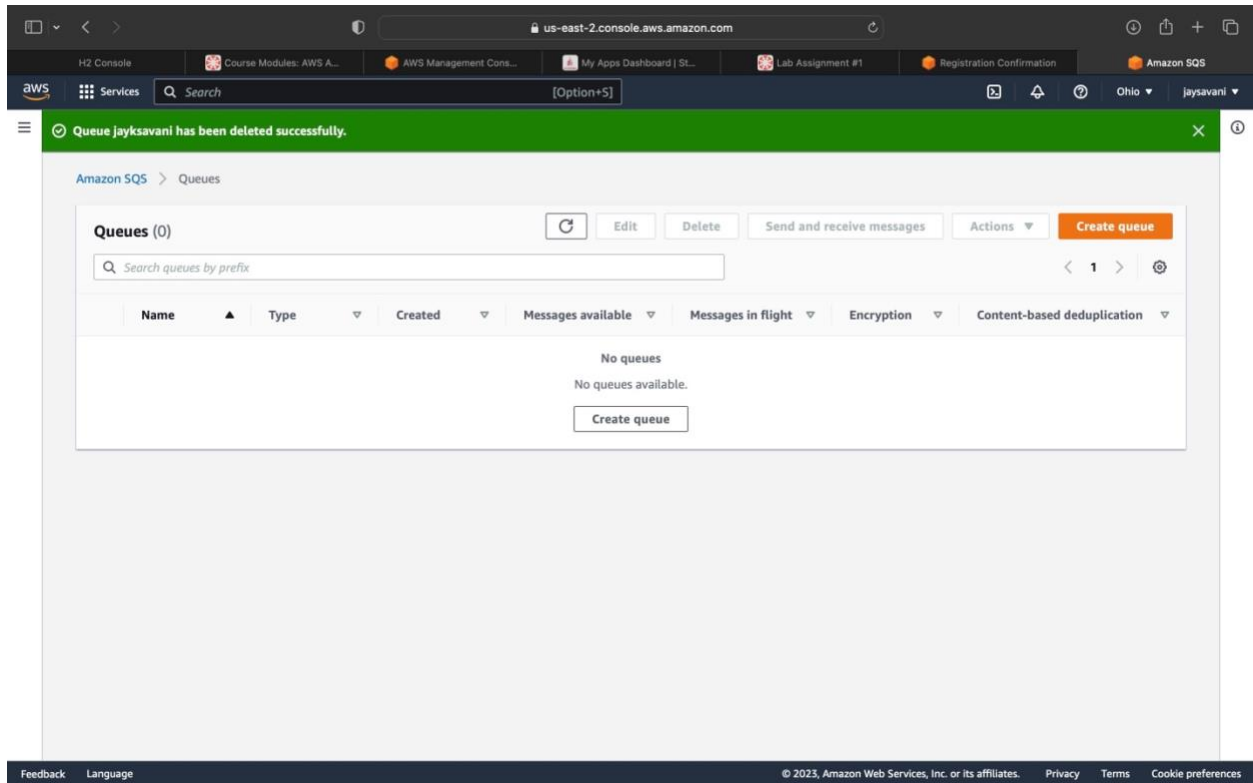
Messages (0) [View details](#) [Delete](#)

<input type="checkbox"/>	ID	Sent	Size	Receive count
--------------------------	----	------	------	---------------

No messages. To view messages in the queue, poll for messages.

[Poll for messages](#)

Delete the Queue



Part - 2

Main Page of EC2 Instance

The screenshot displays the AWS Management Console interface for the EC2 service in the US East (Ohio) region. The top navigation bar includes the AWS logo, a search bar, and various tabs like H2 Console, Course Modules, AWS Management Console, My Apps Dashboard, Lab Assignment #1, Registration Confirmation, and Dashboard | EC2 Management. The left sidebar contains a navigation menu with options like EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, and Lifecycle Manager.

The main content area is divided into several sections:

- Resources:** A section showing the number of Amazon EC2 resources in the US East (Ohio) Region. It includes a table with the following data:

Resource Type	Count
Instances (running)	0
Elastic IPs	0
Load balancers	0
Snapshots	0
Auto Scaling Groups	0
Instances	0
Placement groups	0
Volumes	0
Dedicated Hosts	0
Key pairs	0
Security groups	1
- Launch instance:** A section with a "Launch instance" button and a "Migrate a server" button. It also includes a note: "Note: Your instances will launch in the US East (Ohio) Region".
- Service health:** A section showing the status of the EC2 service. It indicates that the service is operating normally in the US East (Ohio) region.
- Account attributes:** A section showing account attributes such as Supported platforms, VPC, Default VPC, Settings, EBS encryption, Zones, EC2 Serial Console, Default credit specification, and Console experiments.
- Explore AWS:** A section with links to Amazon GuardDuty Malware Protection and Enable Best Price-Performance with AWS Graviton2.

The bottom of the console shows a footer with the text "© 2023, Amazon Web Services, Inc. or its affiliates." and links for Privacy, Terms, and Cookie preferences.

Launching EC- Instance and Checking the details

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name: [Add additional tags](#)

Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below.

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat S [Browse more AMIs](#)

Including AMIs from AWS, Marketplace and the Community

Summary

Number of instances [Info](#): 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI...[read more](#)
ami-0f3c9c466bb525749

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#) [Launch instance](#)

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat S [Browse more AMIs](#)

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type [Free tier eligible](#)
ami-0f3c9c466bb525749 (64-bit (x86)) / ami-096399de9992e2419 (64-bit (Arm))
Virtualization: hvm ENA enabled: true Root device type: ebs

Description: Amazon Linux 2 Kernel 5.10 AMI 2.0.20230221.0 x86_64 HVM gp2

Architecture: 64-bit (x86) AMI ID: ami-0f3c9c466bb525749 [Verified provider](#)

Instance type [Info](#)

Instance type: t2.micro [Free tier eligible](#)
Family: t2 1 vCPU 1 GiB Memory
On-Demand Linux pricing: 0.0116 USD per Hour
On-Demand SUSE pricing: 0.0116 USD per Hour
On-Demand Windows pricing: 0.0162 USD per Hour
On-Demand RHEL pricing: 0.0716 USD per Hour

[Compare instance types](#)

Summary

Number of instances [Info](#): 1

Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI...[read more](#)
ami-0f3c9c466bb525749

Virtual server type (instance type): t2.micro

Firewall (security group): New security group

Storage (volumes): 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#) [Launch instance](#)

Checking Details and Creating Security Pair

The screenshot displays the AWS Management Console interface for launching an EC2 instance. The top navigation bar shows the user is logged in as 'jaysavani' in the 'us-east-2' region. The main content area is divided into two columns. The left column contains the 'Key pair (login)' and 'Network settings' sections. The 'Key pair (login)' section has a dropdown for 'Key pair name' and a 'Create new key pair' button. The 'Network settings' section shows the 'vpc-07afe164fd09d937d' VPC and 'No preference' for the subnet. The 'Firewall (security groups)' section is set to 'Create security group' and 'Anywhere' for SSH access. The right column shows the 'Summary' section with details like 'Number of instances: 1', 'Software Image (AMI): Amazon Linux 2 Kernel 5.10 AMI', 'Virtual server type (instance type): t2.micro', and 'Storage (volumes): 1 volume(s) - 8 GiB'. A 'Launch instance' button is at the bottom right. A 'Create key pair' modal is open in the center, prompting the user to enter a 'Key pair name' (savanij), select a 'Key pair type' (RSA), and choose a 'Private key file format' (.pem or .ppk).

Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

Select [Create new key pair](#)

Network settings Info [Edit](#)

Network Info

vpc-07afe164fd09d937d

Subnet Info

No preference (Default subnet in any availability zone)

Auto-assign public IP Info

Enable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

☒ Allow SSH traffic from Anywhere
Helps you connect to your instance

☐ Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server

☐ Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0f3c9c466bb525749

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#) [Launch instance](#)

Create key pair

Key pairs allow you to connect to your instance securely.

Enter the name of the key pair below. When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#)

Key pair name

savanij

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

☒ RSA
RSA encrypted private and public key pair

☐ ED25519
ED25519 encrypted private and public key pair (Not supported for Windows instances)

Private key file format

☒ .pem
For use with OpenSSH

☐ .ppk
For use with PuTTY

[Cancel](#) [Create key pair](#)

Pair Created and Launched the Instance

Key pair (login) Info

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

savanii [Create new key pair](#)

Network settings Info [Edit](#)

Network Info
vpc-07afe164fd09d937d

Subnet Info
No preference (Default subnet in any availability zone)

Auto-assign public IP Info
Enable

Firewall (security groups) Info

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

☒ Allow SSH traffic from Anywhere
0.0.0.0/0

☐ Allow HTTPS traffic from the internet
To set up an endpoint, for example when creating a web server

☐ Allow HTTP traffic from the internet
To set up an endpoint, for example when creating a web server

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2 Kernel 5.10 AMI...read more
ami-0f3c9c466bb525749

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

[Cancel](#) [Launch instance](#)

Instances (1) Info [Refresh](#) [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
jaysavani	i-040a9ade23f88eec2	Running	t2.micro	-	No alarms	us-east-2c	ec2:

Select an instance

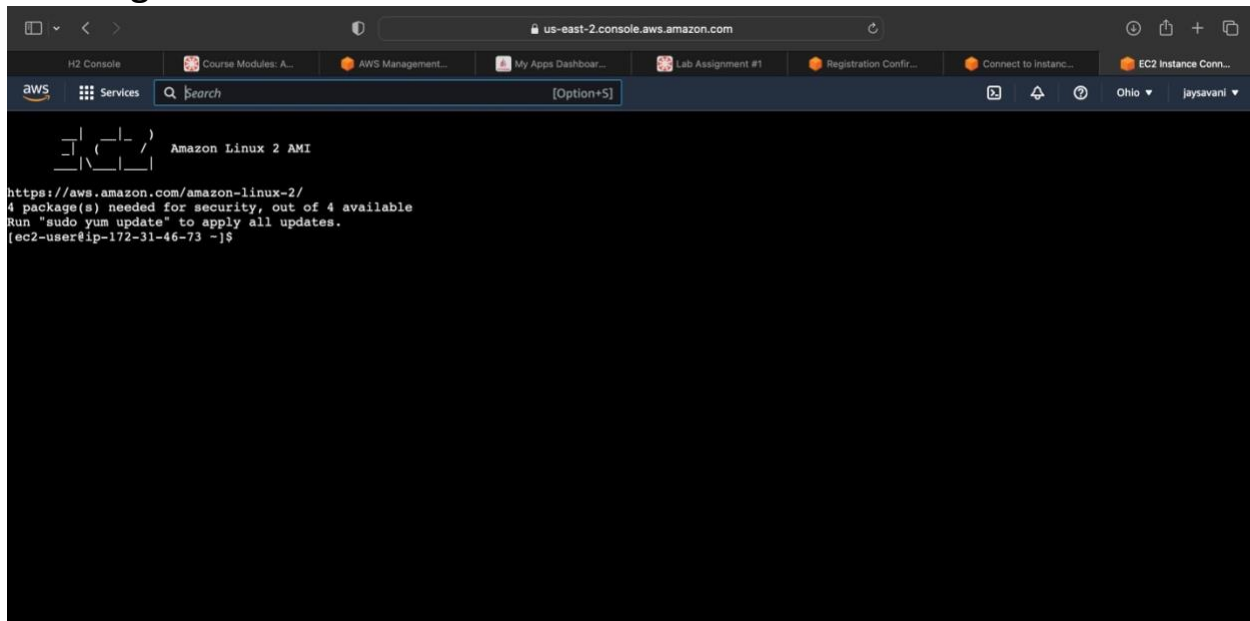
We Can Check the instance is running And Connecting

The screenshot displays the AWS Management Console interface. The top navigation bar shows the user is logged in as 'jaysavani' in the 'us-east-2' region. The left sidebar contains navigation links for various AWS services, including EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Capacity Reservations, Images, AMIs, AMI Catalog, Elastic Block Store, Volumes, Snapshots, and Lifecycle Manager.

The main content area shows the 'Instances (1/1)' page. A table lists the instance 'jaysavani' with ID 'i-040a9ade23f88eec2', which is in a 'Running' state. Below the table, the 'Instance: i-040a9ade23f88eec2 (jaysavani)' details are shown, including its public IP address (3.14.15.134), private IP address (172.31.46.73), and other configuration details.

The bottom section of the screenshot shows the 'Connect to instance' dialog. It provides options to connect to the instance using 'EC2 Instance Connect', 'Session Manager', 'SSH client', or 'EC2 serial console'. The 'EC2 Instance Connect' tab is selected, showing the instance ID, public IP address, and a field for the user name (defaulting to 'ec2-user'). A note indicates that the default user name is 'ec2-user' but advises checking the AMI usage instructions for any changes.

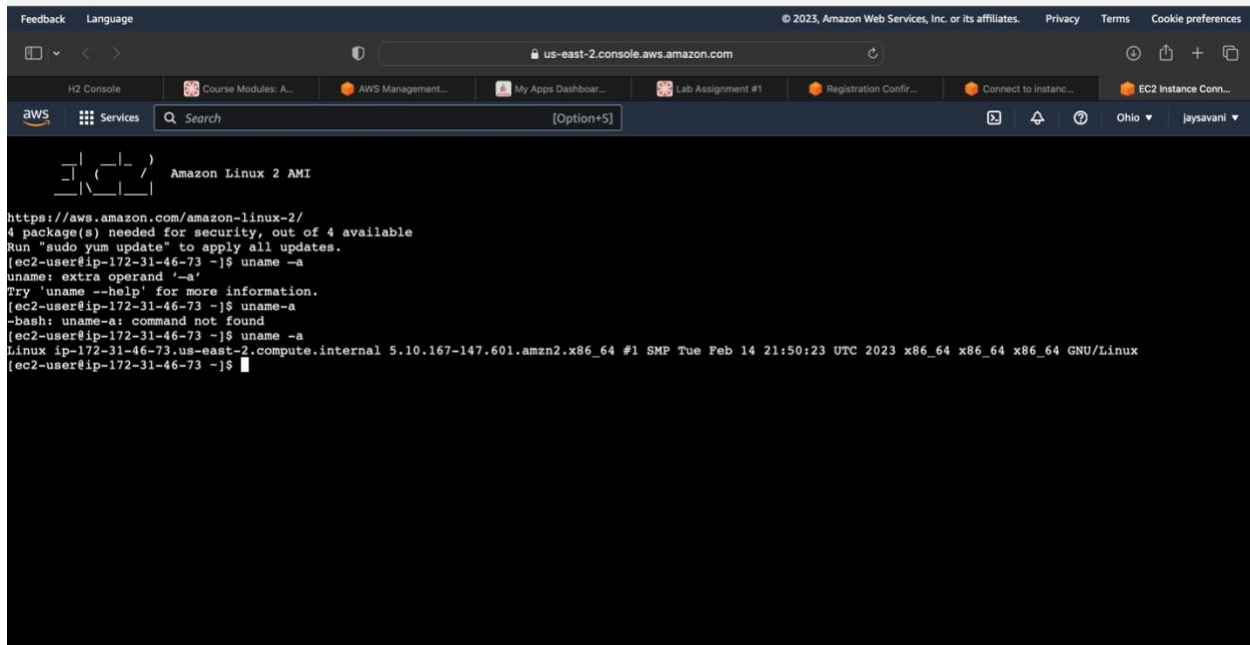
Running the commands in the instance **uname -a**



The screenshot shows the AWS Management Console interface. At the top, there's a navigation bar with various tabs like 'H2 Console', 'Course Modules: A...', 'AWS Management...', 'My Apps Dashboar...', 'Lab Assignment #1', 'Registration Confr...', 'Connect to instanc...', and 'EC2 Instance Conn...'. Below this is a search bar and a user profile dropdown for 'jaysavani'. The main content area displays the terminal output of the 'uname -a' command on an Amazon Linux 2 instance. The output shows the kernel version, architecture, and other system details.

```
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 4 available
Run "sudo yum update" to apply all updates.
(ec2-user@ip-172-31-46-73 ~)$
```

i-040a9ade23f88eec2 (jaysavani)
PublicIPs: 3.14.15.134 PrivateIPs: 172.31.46.73



This screenshot is similar to the first one, but it shows the terminal output after the 'uname -a' command has been executed. The output displays the kernel version, architecture, and other system details. The user prompt '(ec2-user@ip-172-31-46-73 ~)\$' is visible at the end of the output.

```
Amazon Linux 2 AMI
https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 4 available
Run "sudo yum update" to apply all updates.
(ec2-user@ip-172-31-46-73 ~)$ uname -a
uname: extra operand '-a'
Try 'uname --help' for more information.
(ec2-user@ip-172-31-46-73 ~)$ uname -a
-bash: uname-a: command not found
(ec2-user@ip-172-31-46-73 ~)$ uname -a
linux ip-172-31-46-73.us-east-2.compute.internal 5.10.167-147.601.amzn2.x86_64 #1 SMP Tue Feb 14 21:50:23 UTC 2023 x86_64 x86_64 x86_64 GNU/Linux
(ec2-user@ip-172-31-46-73 ~)$
```

i-040a9ade23f88eec2 (jaysavani)
PublicIPs: 3.14.15.134 PrivateIPs: 172.31.46.73

Running the command whoami, df -h

```
us-east-2.console.aws.amazon.com

H2 Console Course Modules: A... AWS Management... My Apps Dashboar... Lab Assignment #1 Registration Confr... Connect to Instanc... EC2 Instance Conn...

aws Services Search [Option+S] Ohio jaysavani

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 4 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-46-73 ~]$ uname -a
uname: extra operand '-'
Try 'uname --help' for more information.
[ec2-user@ip-172-31-46-73 ~]$ uname -a
-bash: uname-a: command not found
[ec2-user@ip-172-31-46-73 ~]$ uname -a
Linux ip-172-31-46-73.us-east-2.compute.internal 5.10.167-147.601.amzn2.x86_64 #1 SMP Tue Feb 14 21:50:23 UTC 2023 x86_64 x86_64 x86_64 GNU/Linux
[ec2-user@ip-172-31-46-73 ~]$ whoami
ec2-user
[ec2-user@ip-172-31-46-73 ~]$
```

i-040a9ade23f88eec2 (jaysavani)

PublicIPs: 3.14.15.134 PrivateIPs: 172.31.46.73



```
Feedback Language © 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

us-east-2.console.aws.amazon.com

H2 Console Course Modules: A... AWS Management... My Apps Dashboar... Lab Assignment #1 Registration Confr... Connect to Instanc... EC2 Instance Conn...

aws Services Search [Option+S] Ohio jaysavani

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
4 package(s) needed for security, out of 4 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-46-73 ~]$ uname -a
uname: extra operand '-'
Try 'uname --help' for more information.
[ec2-user@ip-172-31-46-73 ~]$ uname -a
-bash: uname-a: command not found
[ec2-user@ip-172-31-46-73 ~]$ uname -a
Linux ip-172-31-46-73.us-east-2.compute.internal 5.10.167-147.601.amzn2.x86_64 #1 SMP Tue Feb 14 21:50:23 UTC 2023 x86_64 x86_64 x86_64 GNU/Linux
[ec2-user@ip-172-31-46-73 ~]$ whoami
ec2-user
[ec2-user@ip-172-31-46-73 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        474M   0  474M   0% /dev
tmpfs           483M   0  483M   0% /dev/shm
tmpfs           483M 408K  482M  1% /run
tmpfs           483M   0  483M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.6G  6.4G  20% /
tmpfs           97M   0   97M   0% /run/user/1000
[ec2-user@ip-172-31-46-73 ~]$
```

i-040a9ade23f88eec2 (jaysavani)

PublicIPs: 3.14.15.134 PrivateIPs: 172.31.46.73



Running the command ifconfig -a, netstat

```
us-east-2.console.aws.amazon.com

H2 Console Course Modules: A... AWS Management... My Apps Dashboar... Lab Assignment #1 Registration Confir... Connect to Instanc... EC2 Instance Conn...

aws Services Search [Option+S] Ohio jaysavani

Try 'uname --help' for more information.
[ec2-user@ip-172-31-46-73 ~]$ uname -a
-bash: uname -a: command not found
[ec2-user@ip-172-31-46-73 ~]$ uname -a
Linux ip-172-31-46-73.us-east-2.compute.internal 5.10.167-147.601.amzn2.x86_64 #1 SMP Tue Feb 14 21:50:23 UTC 2023 x86_64 x86_64 GNU/Linux
[ec2-user@ip-172-31-46-73 ~]$ whoami
ec2-user
[ec2-user@ip-172-31-46-73 ~]$ df -h
Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        474M   0  474M   0% /dev
tmpfs           483M   0  483M   0% /dev/shm
tmpfs           483M 408K  482M   1% /run
tmpfs           483M   0  483M   0% /sys/fs/cgroup
/dev/xvda1      8.0G  1.6G   6.4G  20% /
tmpfs           97M    0   97M   0% /run/user/1000
[ec2-user@ip-172-31-46-73 ~]$ ifconfig -a
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 9001
    inet 172.31.46.73 netmask 255.255.240.0 broadcast 172.31.47.255
    inet6 fe80::82b:c2ff:fed3:ab9a prefixlen 64 scopeid 0x20<link>
    ether 0a:2b:c2:d3:ab:9a txqueuelen 1000 (Ethernet)
    RX packets 30323 bytes 112997676 (107.7 MiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 5978 bytes 441747 (431.3 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1000 (Local Loopback)
    RX packets 48 bytes 3888 (3.7 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 48 bytes 3888 (3.7 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

[ec2-user@ip-172-31-46-73 ~]$
```

i-040a9ade23f88eec2 (jaysavani)

PublicIPs: 3.14.15.134 PrivateIPs: 172.31.46.73



```
us-east-2.console.aws.amazon.com

H2 Console Course Modules: A... AWS Management... My Apps Dashboar... Lab Assignment #1 Registration Confir... Connect to Instanc... EC2 Instance Conn...

aws Services Search [Option+S] Ohio jaysavani

unix 3 [ ] STREAM CONNECTED 17923
unix 3 [ ] STREAM CONNECTED 17961
unix 2 [ ] DGRAM 19237
unix 2 [ ] DGRAM 16834
unix 3 [ ] STREAM CONNECTED 17922
unix 3 [ ] STREAM CONNECTED 17964
unix 3 [ ] STREAM CONNECTED 13721 /run/systemd/journal/stdout
unix 2 [ ] DGRAM 16267
unix 3 [ ] STREAM CONNECTED 17979
unix 3 [ ] STREAM CONNECTED 16000
unix 3 [ ] STREAM CONNECTED 17963
unix 3 [ ] STREAM CONNECTED 15998
unix 2 [ ] DGRAM 38944
unix 3 [ ] STREAM CONNECTED 17919
unix 3 [ ] STREAM CONNECTED 17978
unix 3 [ ] DGRAM 13716
unix 3 [ ] STREAM CONNECTED 17970
unix 2 [ ] DGRAM 13197
unix 3 [ ] STREAM CONNECTED 17976
unix 3 [ ] STREAM CONNECTED 17984
unix 2 [ ] DGRAM 13580
unix 3 [ ] STREAM CONNECTED 19233
unix 2 [ ] DGRAM 17878
unix 3 [ ] STREAM CONNECTED 17954
unix 3 [ ] STREAM CONNECTED 17933
unix 3 [ ] STREAM CONNECTED 16003 /run/systemd/journal/stdout
unix 3 [ ] STREAM CONNECTED 16273 /run/dbus/system_bus_socket
unix 3 [ ] STREAM CONNECTED 17982
unix 3 [ ] STREAM CONNECTED 16103
unix 3 [ ] STREAM CONNECTED 17920
unix 3 [ ] STREAM CONNECTED 17957
unix 3 [ ] STREAM CONNECTED 15798
unix 3 [ ] STREAM CONNECTED 19598
unix 3 [ ] STREAM CONNECTED 17930

[ec2-user@ip-172-31-46-73 ~]$
```

i-040a9ade23f88eec2 (jaysavani)

PublicIPs: 3.14.15.134 PrivateIPs: 172.31.46.73



Running the command and terminating the instance

```
[ec2-user@ip-172-31-46-73 ~]$ netstat
Active Internet connections (w/o servers)
Proto Recv-Q Send-Q Local Address           Foreign Address         State
tcp        0      0 ip-172-31-46-73.us-ssh ec2-3-16-146-3.us:61968 ESTABLISHED
tcp        0      0 ip-172-31-46-73.us-ssh 128.1.44.102:13572     TIME_WAIT
Active UNIX domain sockets (w/o servers)
Proto RefCnt Flags     Type       State          I-Node   Path
unix   3      [ ]       DGRAM      -             11563    /run/systemd/notify
unix   2      [ ]       DGRAM      -             11564    /run/systemd/cgroups-agent
unix   5      [ ]       DGRAM      -             11570    /run/systemd/journal/socket
unix   2      [ ]       DGRAM      -             16434    /run/chrony/chronyd.sock
unix  15      [ ]       DGRAM      -             11571    /dev/log
unix   2      [ ]       DGRAM      -             13193    /run/systemd/shutdown
unix   3      [ ]       STREAM     CONNECTED    15716    /run/systemd/journal/stdout
unix   3      [ ]       STREAM     CONNECTED    17939
unix   2      [ ]       DGRAM      -             18021
unix   3      [ ]       STREAM     CONNECTED    18618
unix   3      [ ]       STREAM     CONNECTED    15715
unix   3      [ ]       STREAM     CONNECTED    17988
unix   3      [ ]       STREAM     CONNECTED    15431
unix   3      [ ]       STREAM     CONNECTED    17952
unix   2      [ ]       DGRAM      -             18018
unix   2      [ ]       DGRAM      -             12969
unix   3      [ ]       STREAM     CONNECTED    15432
unix   3      [ ]       STREAM     CONNECTED    17987
unix   3      [ ]       STREAM     CONNECTED    17951
unix   3      [ ]       STREAM     CONNECTED    17949
unix   3      [ ]       STREAM     CONNECTED    17994
unix   3      [ ]       STREAM     CONNECTED    17942
unix   3      [ ]       STREAM     CONNECTED    17990
unix   3      [ ]       STREAM     CONNECTED    17991
unix   3      [ ]       STREAM     CONNECTED    18668
unix   3      [ ]       STREAM     CONNECTED    17993
unix   3      [ ]       STREAM     CONNECTED    17940
unix   3      [ ]       STREAM     CONNECTED    15799    /run/dbus/system_bus_socket
```

i-040a9ade23f88eec2 (jaysavani)

PublicIPs: 3.14.15.134 PrivateIPs: 172.31.46.73

Feedback Language

© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

us-east-2.console.aws.amazon.com

H2 Console Course Modules: A... AWS Management... My Apps Dashboard... Lab Assignment #1 Registration Confir... Instances | EC2 Ma... EC2 Instance Conn...

aws Services Search [Option+S]

New EC2 Experience Tell us what you think

EC2 Dashboard

EC2 Global View

Events

Tags

Limits

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

Images

AMIs

AMI Catalog

Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

Instances (1/1) ids

Find instance by attribute or tag (case-sensitive)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Publ
jaysavani	i-040a9ade23f88eec2	Running	t2.micro	2/2 checks passed	No alarms	us-east-2c	ec2-

Instance: i-040a9ade23f88eec2

Details Security Networking

Instance summary link

Instance ID i-040a9ade23f88eec2 (jaysavani)

IPv6 address -

Hostname type

IP name ip-172-31-46-73.us-east-2.compute.internal

Answer private resource DNS name

IPv4 (A) 3.14.15.134 [Public IP]

Auto-assigned IP address

Private IP ip-172-31-46-73.us-east-2.compute.internal

Instance type t2.micro

VPC ID vpc-07afe164d05d557d

Elastic IP addresses -

AWS Compute Optimizer finding

Opt-in to AWS Compute Optimizer for recommendation

Learn more

Terminate instance?

On an EBS-backed instance, the default action is for the root EBS volume to be deleted when the instance is terminated. Storage on any local drives will be lost.

Are you sure you want to terminate these instances?

i-040a9ade23f88eec2 (jaysavani)

To confirm that you want to terminate the instances, choose the terminate button below. Terminating the instance cannot be undone.

Cancel Terminate

Feedback Language

© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences

Successfully Terminated

The screenshot displays the AWS Management Console interface. At the top, a green banner indicates "Successfully terminated i-040a9ade23f88eec2". Below this, the "Instances (1/1)" section shows a table with one instance, "jaysavani", in the "Shutting-down" state. The instance details panel for "i-040a9ade23f88eec2 (jaysavani)" is expanded, showing various attributes such as Instance ID, Public IPv4 address (3.14.15.134), Private IPv4 addresses (172.31.46.73), Instance state (Running), Hostname type, Private IP DNS name, Instance type (t2.micro), VPC ID, and Auto-assigned IP address (3.14.15.134 [Public IP]).

Instances (1/1)

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
jaysavani	i-040a9ade23f88eec2	Shutting-down	t2.micro	2/2 checks passed	No alarms	us-east-2c	ec2-

Instance: i-040a9ade23f88eec2 (jaysavani)

Details | Security | Networking | Storage | Status checks | Monitoring | Tags

Instance summary

Instance ID i-040a9ade23f88eec2 (jaysavani)	Public IPv4 address 3.14.15.134 open address	Private IPv4 addresses 172.31.46.73
IPv6 address -	Instance state Running	Public IPv4 DNS ec2-3-14-15-134.us-east-2.compute.amazonaws.com open address
Hostname type IP name: ip-172-31-46-73.us-east-2.compute.internal	Private IP DNS name (IPv4 only) ip-172-31-46-73.us-east-2.compute.internal	Elastic IP addresses -
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendation
Auto-assigned IP address 3.14.15.134 [Public IP]	VPC ID vpc-07afe164fd09d937d	Learn more

© 2023, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences