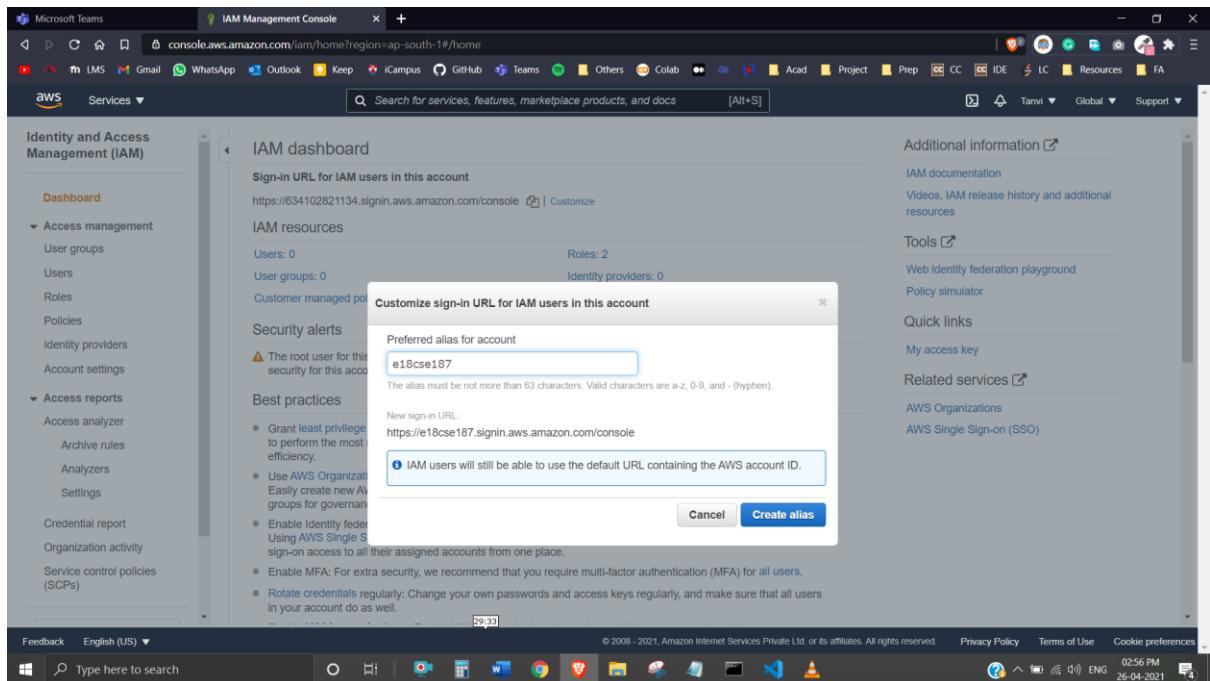


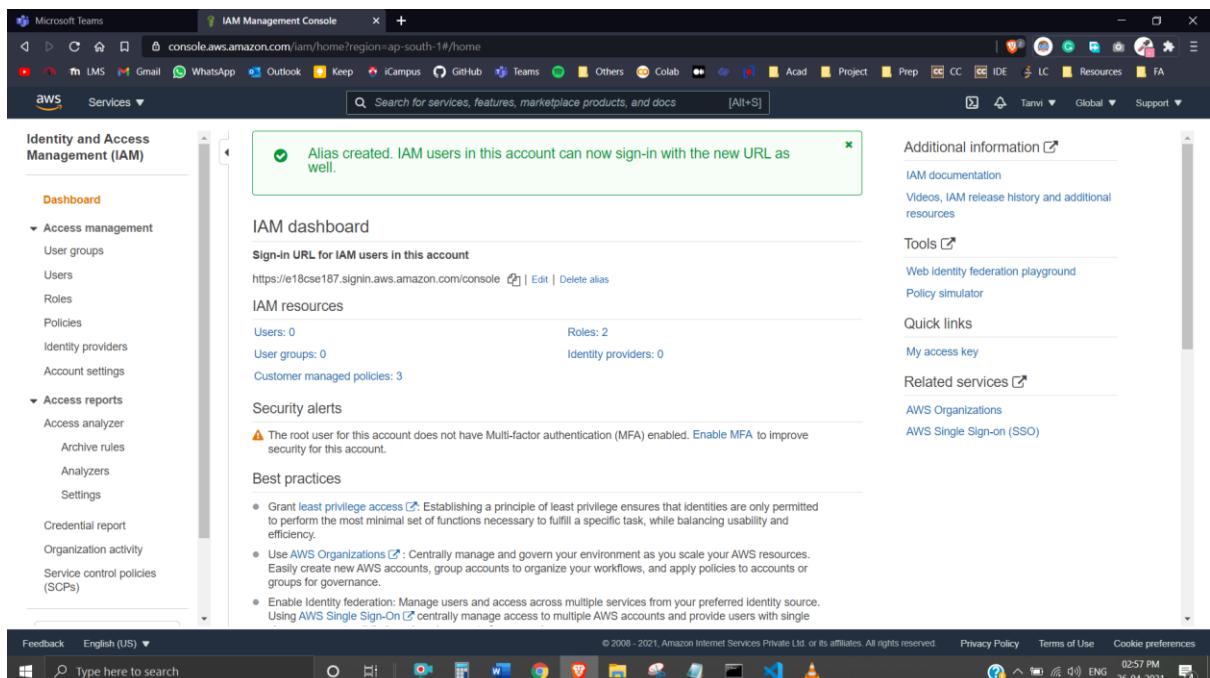
Lab Assignment-10

ECSE373L: Cloud Infrastructure and Services

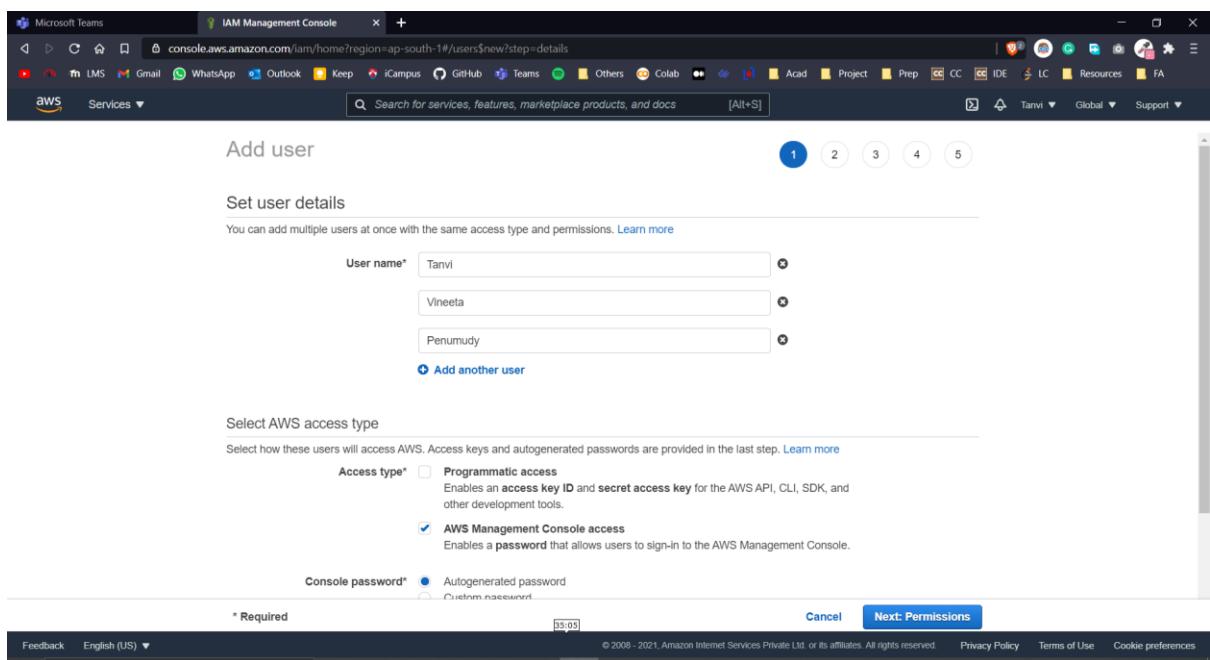
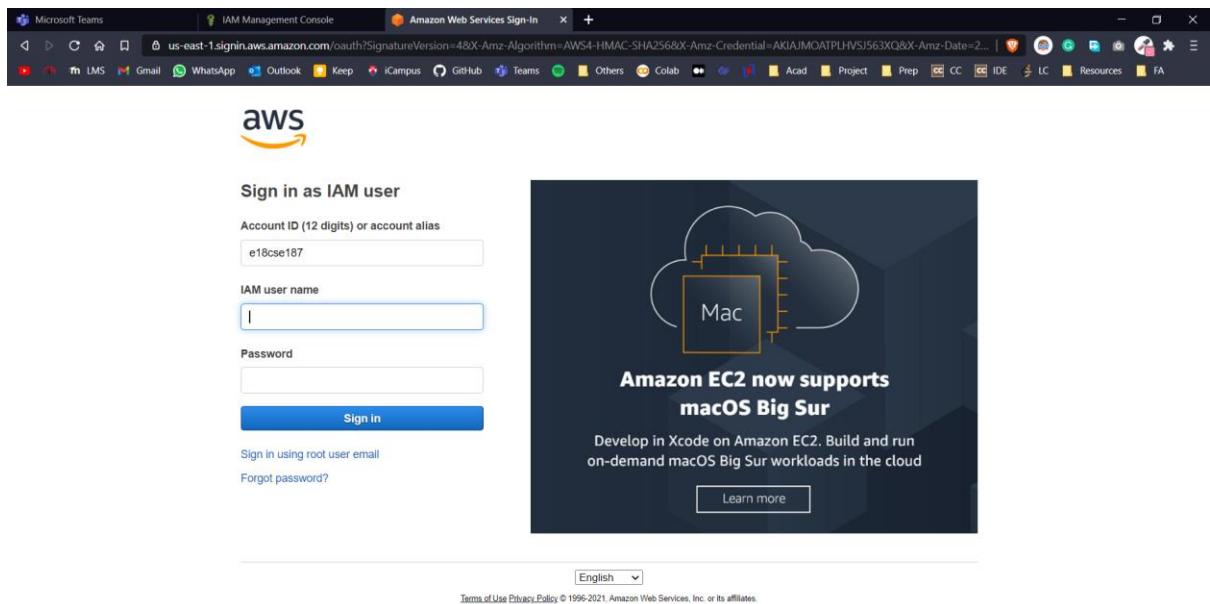
Name: Tanvi Penumudy
Enroll no: E18CSE187
Batch: EB02



The screenshot shows the AWS IAM Management Console. On the left, there's a navigation sidebar with options like Dashboard, Access management, IAM resources, Security alerts, Best practices, and so on. The main area displays the IAM dashboard with statistics: Users: 0, User groups: 0, Roles: 2, and Identity providers: 0. A modal window titled 'Customize sign-in URL for IAM users in this account' is open. It contains fields for 'Preferred alias for account' (set to 'e18cse187') and 'New sign-in URL' (set to 'https://e18cse187.signin.aws.amazon.com/console'). Below these fields is a note: 'IAM users will still be able to use the default URL containing the AWS account ID.' At the bottom of the modal are 'Cancel' and 'Create alias' buttons.



This screenshot shows the same IAM Management Console interface as the previous one, but with a green success message at the top: 'Alias created. IAM users in this account can now sign-in with the new URL as well.' The rest of the interface is identical to the first screenshot, showing the IAM dashboard and various management options.



IAM Management Console

console.aws.amazon.com/iam/home?region=ap-south-1#/users\$new?step=details

Vineeta
Penumudy

Select AWS access type

Select how these users will access AWS. Access keys and autogenerated passwords are provided in the last step. [Learn more](#)

Access type* **Programmatic access**
Enables an **access key ID** and **secret access key** for the AWS API, CLI, SDK, and other development tools.

AWS Management Console access
Enables a **password** that allows users to sign-in to the AWS Management Console.

Console password* Autogenerated password
 Custom password

Require password reset Users must create a new password at next sign-in
Users automatically get the [IAMUserChangePassword](#) policy to allow them to change their own password.

* Required

Cancel **Next: Permissions**

Add user

1 2 3 4 5

Set permissions

Add users to group Copy permissions from existing user Attach existing policies directly

Get started with groups
You haven't created any groups yet. Using groups is a best-practice way to manage users' permissions by job functions, AWS service access, or your custom permissions. Get started by creating a group. [Learn more](#)

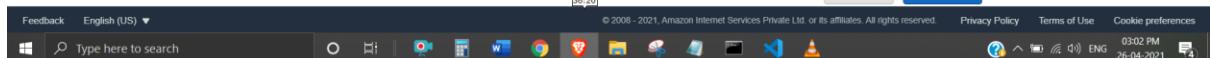
Create group

Set permissions boundary

Set a permissions boundary to control the maximum permissions this user can have. This is an advanced feature used to delegate permission management to others. [Learn more](#)

Create user without a permissions boundary
 Use a permissions boundary to control the maximum user permissions

36:20 Cancel Previous **Next: Tags**



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

Add user

Review

User details

User names	Tanvi, Vineeta, and Penumudy
AWS access type	AWS Management Console access - with a password
Console password type	Autogenerated
Require password reset	Yes
Permissions boundary	Permissions boundary is not set

Permissions summary

Type	Name
Managed policy	IAMUserChangePassword

Feedback English (US) ▾

Type here to search

Cancel Previous Create users

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Success

You successfully created the users shown below. You can view and download user security credentials. You can also email users instructions for signing in to the AWS Management Console. This is the last time these credentials will be available to download. However, you can create new credentials at any time.

Users with AWS Management Console access can sign-in at: <https://e18cse187.signin.aws.amazon.com/console>

Download .csv

User	Password	Email login instructions
Tanvi	***** Show	Send email ↗
Vineeta	***** Show	Send email ↗
Penumudy	***** Show	Send email ↗

Feedback English (US) ▾

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User name	Password	Access key ID	Secret access key	Console login link
Tanvi	yG2i410@NINic38			https://e18cse187.siginin.aws.amazon.com/console
Vineeta	Vl RjYm@0wB97			https://e18cse187.siginin.aws.amazon.com/console
Penumudy	2KmWr57_s!NjT			https://e18cse187.siginin.aws.amazon.com/console

Create user group

Name the group

User group name
Enter a meaningful name to identify this group.
Lab10EC2
Maximum 128 characters. Use alphanumeric and '+-, @_, -' characters.

Add users to the group - Optional (3) An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS. A user can belong to up to 10 groups.

User name	Groups	Last activity	Creation time
Penumudy	0	None	5 minutes ago
Tanvi	0	None	5 minutes ago
Vineeta	0	None	5 minutes ago

Screenshot of the IAM Management Console showing the creation of a User group named "Lab10EC2".

The left sidebar shows the navigation menu under "Access management": **User groups**, Users, Roles, Policies, Identity providers, Account settings.

The main area displays a table of users:

User name	Groups	Last activity	Creation time
Penumudy	0	None	5 minutes ago
Tarvi	0	None	5 minutes ago
Vineeta	0	None	5 minutes ago

Below the user table, there is a section titled "Attach permissions policies - Optional (Selected 1/657) Info". It shows a filtered list of policies:

Policy Name	Type	Attached entities
AmazonEC2FullAccess	AWS managed	0

Buttons at the bottom right include "Cancel" and "Create group".

Screenshot of the IAM Management Console showing the creation of a User group named "Lab10EC2".

The left sidebar shows the navigation menu under "Access management": **User groups**, Users, Roles, Policies, Identity providers, Account settings.

A message banner at the top says: "Introducing the new User groups experience. We've redesigned the User groups experience to make it easier to use. Let us know what you think." with a "View group" button.

The main area displays a table of user groups:

Group name	Users	Permissions	Creation time
Lab10EC2	0	Defined	Now

Buttons at the bottom right include "Delete" and "Create group".

Screenshot of the AWS IAM Management Console showing the creation of a new user group named "Lab10Group". The group is being added to three users: Penumudy, Tanvi, and Vineeta.

Create user group

Name the group

User group name: Lab10Group

Add users to the group - **Optional (3)**

User name	Groups	Last activity	Creation time
Penumudy	0	None	7 minutes ago
Tanvi	0	None	7 minutes ago
Vineeta	0	None	7 minutes ago

Screenshot of the AWS IAM Management Console showing the newly created "Lab10Group" user group. The group now contains two users: Lab10EC2 and Lab10Group.

Lab10Group user group created.

User groups (2)

Group name	Users	Permissions	Creation time
Lab10EC2	0	Defined	1 minute ago
Lab10Group	0	Not defined	Now

Screenshot of the IAM Management Console showing the "Add users to Lab10EC2" page. The left sidebar shows "Identity and Access Management (IAM)" with "User groups" selected. The main content shows a table of users in the account:

User name	Groups	Last activity	Creation time
Penumudy	0	None	8 minutes ago
Tanvi	0	None	8 minutes ago
Vineeta	0	None	8 minutes ago

Buttons at the bottom right: "Cancel" and "Add users".

Screenshot of the IAM Management Console showing the "Lab10EC2" user group summary. The left sidebar shows "Identity and Access Management (IAM)" with "User groups" selected. The main content shows the group summary and a table of users in the group:

User name	Groups	Last activity	Creation time
Tanvi	1	None	8 minutes ago
Penumudy	1	None	8 minutes ago

Buttons at the top right: "Delete" and "Edit". Buttons at the bottom right: "Remove users" and "Add users".

Screenshot of the AWS IAM Management Console showing user permissions for Tanvi.

User ARN: arn:aws:iam::634102821134:user/Tanvi

Path: /

Creation time: 2021-04-26 15:02 UTC+0530

Permissions: Groups (1) Tags Security credentials Access Advisor

Attached directly:

- IAMUserChangePassword (AWS managed policy)

Attached from group:

- AmazonEC2FullAccess (AWS managed policy from group Lab10EC2)

Permissions boundary (not set):

Generate policy based on CloudTrail events:

Add inline policy:

Screenshot of the AWS IAM Management Console showing user groups for Tanvi.

User ARN: arn:aws:iam::634102821134:user/Tanvi

Path: /

Creation time: 2021-04-26 15:02 UTC+0530

Groups: (1)

Add user to groups:

Group name	Attached permissions
Lab10EC2	AmazonEC2FullAccess

Add permissions to Tanvi

Grant permissions

Use IAM policies to grant permissions. You can assign an existing policy or create a new one.

Actions:

- Add user to group
- Copy permissions from existing user
- Attach existing policies directly
- Create policy

Filter policies: s3readonly

Policy name	Type	Used as
AmazonS3ReadOnlyAccess	AWS managed	None

Feedback English (US) ▾ **Cancel** **Next: Review**

Type here to search

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Identity and Access Management (IAM)

Users > Tanvi

Summary

User ARN: arn:aws:iam::634102821134:user/Tanvi

Path: /

Creation time: 2021-04-26 15:02 UTC+0530

Permissions **Groups (1)** **Tags** **Security credentials** **Access Advisor**

Permissions policies (3 policies applied)

Add permissions **Add inline policy**

Policy name	Policy type
AmazonS3ReadOnlyAccess	AWS managed policy
IAMUserChangePassword	AWS managed policy
AmazonEC2FullAccess	AWS managed policy from group Lab10EC2

Add permissions to Penumudy

Grant permissions

Use IAM policies to grant permissions. You can assign an existing policy or create a new one.

Create policy

Filter policies Showing 2 results

Policy name	Type	Used as
<input checked="" type="checkbox"/> AWSBillingReadOnlyAccess	AWS managed	None
<input type="checkbox"/> Billing	Job function	None

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Identity and Access Management (IAM)

Users > Penumudy

Summary

User ARN: arn:aws:iam::634102821134:user/Penumudy

Path: /

Creation time: 2021-04-26 15:02 UTC+0530

Permissions Groups (1) Tags Security credentials Access Advisor

Permissions policies (3 policies applied)

Add permissions Add inline policy

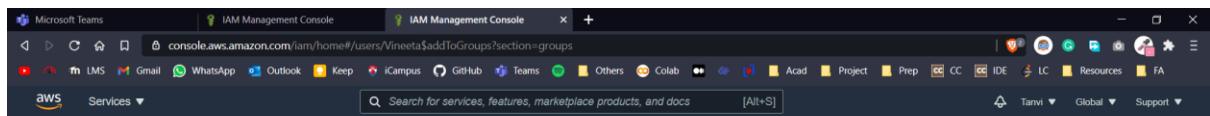
Policy name	Policy type
Attached directly	AWS managed policy
IAMUserChangePassword	AWS managed policy
AWSBillingReadOnlyAccess	AWS managed policy
Attached from group	AWS managed policy from group Lab10EC2
AmazonEC2FullAccess	AWS managed policy from group Lab10EC2

Permissions boundary (not set)

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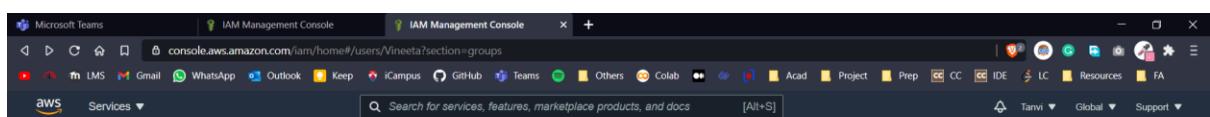


Add User to Groups

Select groups that user Vineeta will be added to.			
<input type="text"/> Search			
Group Name	Users	Inline Policy	Creation Time
<input type="checkbox"/> Lab10EC2	2		2021-04-26 15:08 UTC+0530
<input checked="" type="checkbox"/> Lab10Group	0		2021-04-26 15:10 UTC+0530

Showing 2 results

[Cancel](#) [Add to Groups](#)



Identity and Access Management (IAM)

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Organization activity

Service control policies (SCPs)

Users > Vineeta

[Delete user](#)



Summary

User ARN: arn:aws:iam::634102821134:user/Vineeta

Path:

Creation time: 2021-04-26 15:02 UTC+0530

[Permissions](#)

[Groups \(1\)](#)

[Tags](#)

[Security credentials](#)

[Access Advisor](#)

[Add user to groups](#)

Group name:

Attached permissions:

Lab10Group



Screenshot of the AWS IAM Management Console showing the list of users.

The left sidebar shows the navigation menu for Identity and Access Management (IAM), with the "Users" option selected. The main content area displays a table of users:

User name	Groups	Access key age	Password age	Last activity	MFA
Penumudy	Lab10EC2	None	Today	None	Not enabled
Tanvi	Lab10EC2	None	Today	None	Not enabled
Vineeta	Lab10Group	None	Today	None	Not enabled

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Screenshot of the AWS IAM Management Console showing the user details for Vineeta.

The left sidebar shows the navigation menu for Identity and Access Management (IAM), with the "Users" option selected. The main content area displays the "Summary" tab for the user "Vineeta".

User ARN: arn:aws:iam::634102821134:user/Vineeta
Path: /
Creation time: 2021-04-26 15:02 UTC+0530

Permissions tab selected. Attached directly: IAMUserChangePassword (AWS managed policy).

Add inline policy

Attached directly: IAMUserChangePassword (AWS managed policy)

Permissions boundary (not set)

Generate policy based on CloudTrail events

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Add permissions to Vineeta

Grant permissions

Use IAM policies to grant permissions. You can assign an existing policy or create a new one.

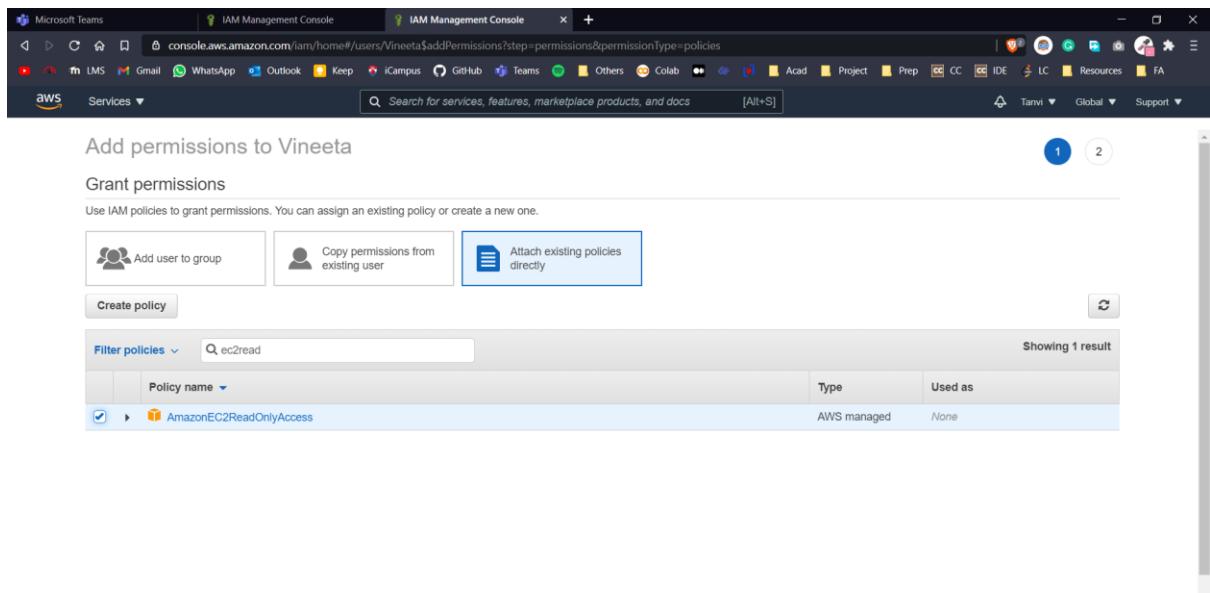
Actions:

- Add user to group
- Copy permissions from existing user
- Attach existing policies directly
- Create policy

Filter policies: ec2read

Policy name	Type	Used as
AmazonEC2ReadOnlyAccess	AWS managed	None

Next: Review

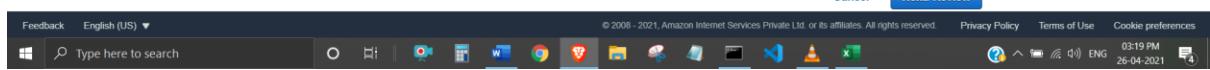


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Identity and Access Management (IAM)

Users > Vineeta

Summary

User ARN: arn:aws:iam::634102821134:user/Vineeta

Path: /

Creation time: 2021-04-26 15:02 UTC+0530

Permissions **Groups (1)** **Tags** **Security credentials** **Access Advisor**

Permissions policies (2 policies applied)

Add permissions **Add inline policy**

Policy name	Policy type	Actions
AmazonEC2ReadOnlyAccess	AWS managed policy	X
IAMUserChangePassword	AWS managed policy	X

Attached directly

Permissions boundary (not set)

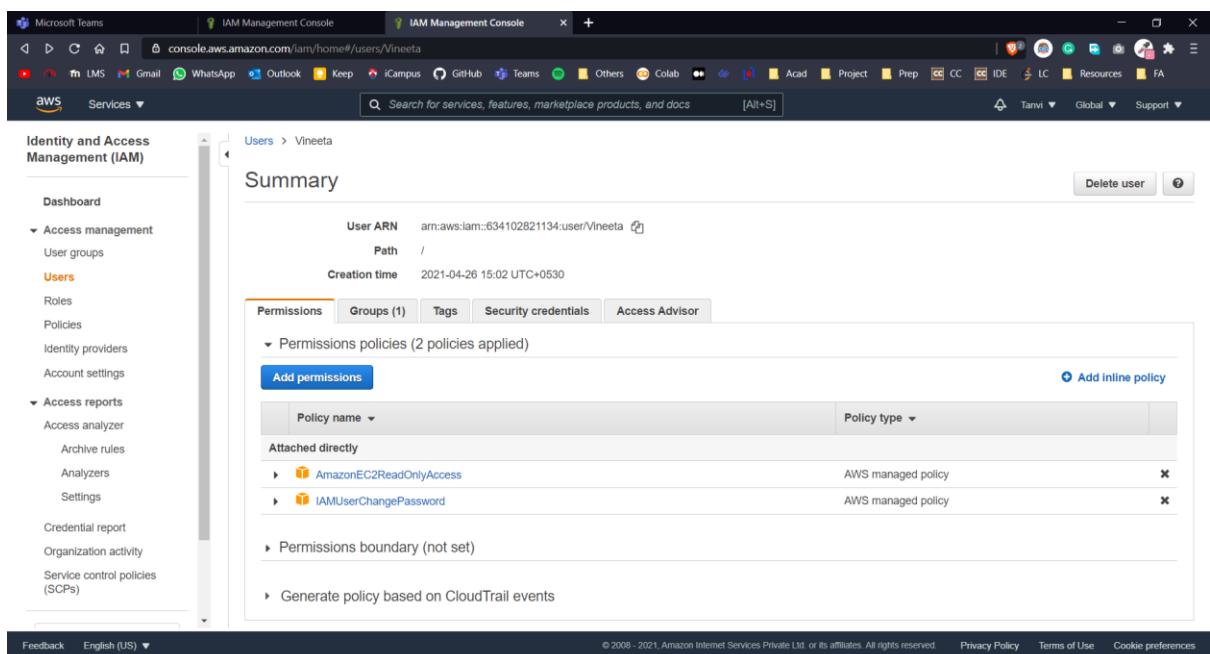
Generate policy based on CloudTrail events

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Add permissions to Vineeta

Grant permissions

Use IAM policies to grant permissions. You can assign an existing policy or create a new one.

Create policy

Filter policies Showing 2 results

Policy name	Type	Used as
<input checked="" type="checkbox"/> AWSBillingReadOnlyAccess	AWS managed	None
<input type="checkbox"/> Billing	Job function	None

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Identity and Access Management (IAM)

Users

Summary

User ARN: arn:aws:iam::634102821134:user/Vineeta

Path: /

Creation time: 2021-04-26 15:02 UTC+0530

Permissions **Groups (1)** **Tags** **Security credentials** **Access Advisor**

Permissions policies (3 policies applied)

Add permissions **Add inline policy**

Policy name	Policy type
AmazonEC2ReadOnlyAccess	AWS managed policy
IAMUserChangePassword	AWS managed policy
AWSBillingReadOnlyAccess	AWS managed policy

Permissions boundary (not set)

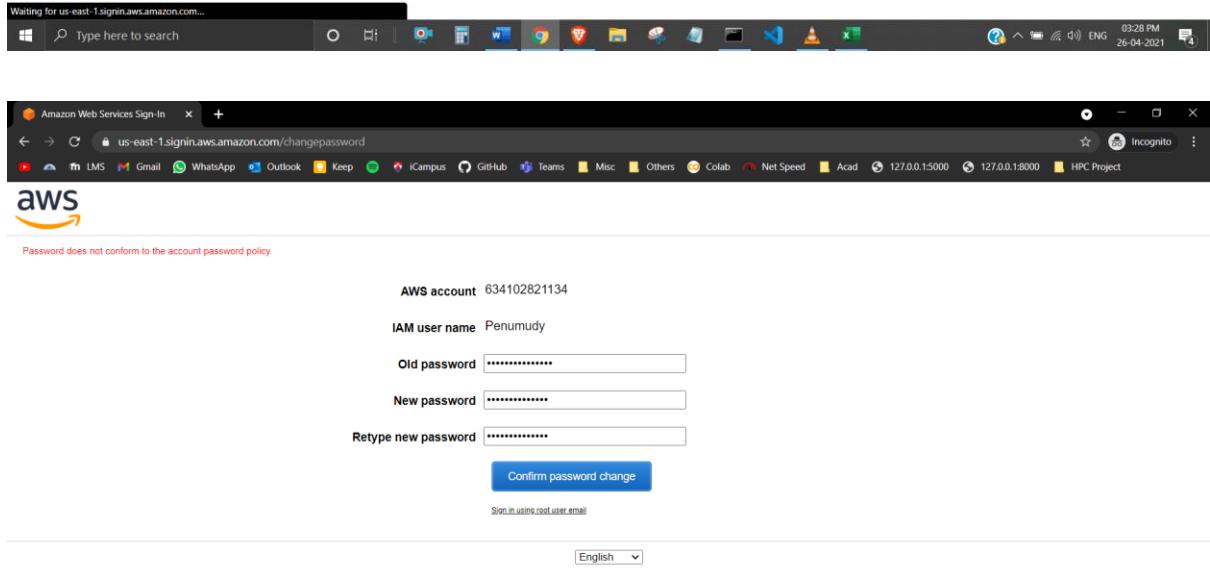
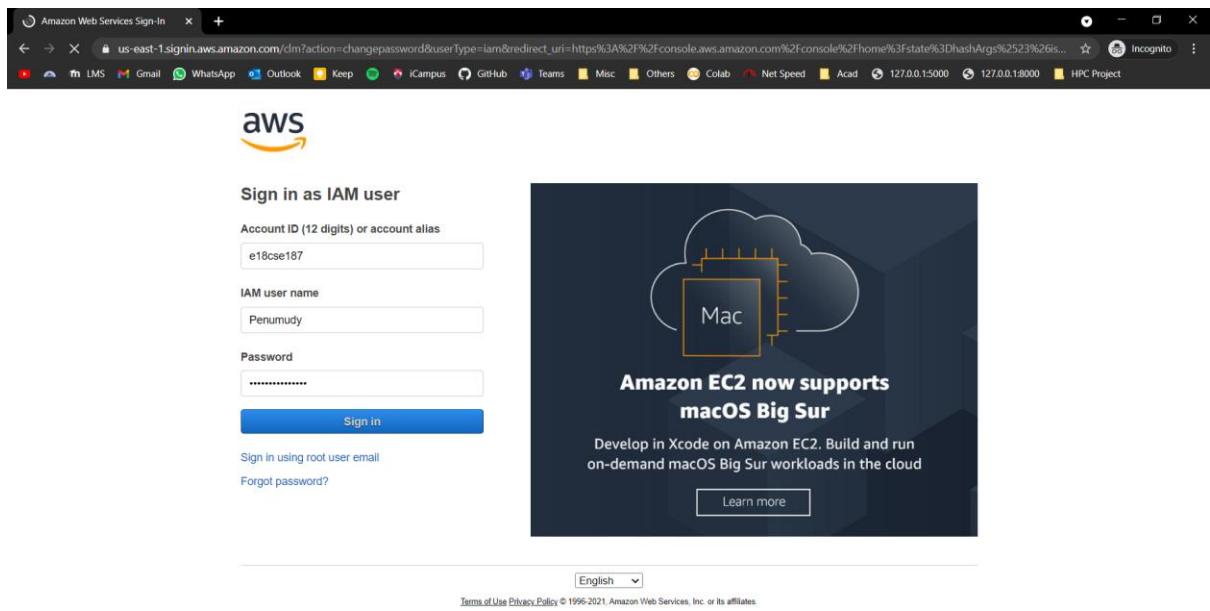
Generate policy based on CloudTrail events

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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"

Quick Start

Amazon Linux 2 AMI (HVM), SSD Volume Type - ami-05d72852800cbf29e (64-bit x86) / ami-081c76abbdaafc7 (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

Select

macOS Big Sur 11.2.3 - ami-0ef98d91ff9126a43

The macOS Big Sur AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

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

Select

macOS Catalina 10.15.7 - ami-0e8dc11f4e055d786

The macOS Catalina AMI is an EBS-backed, AWS-supported image. This AMI includes the AWS Command Line Interface, Command Line Tools for Xcode, Amazon SSM Agent, and Homebrew. The AWS Homebrew Tap includes the latest versions of multiple AWS packages included in the AMI.

Select

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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 ▾ ShowHide Columns

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

	Family	Type	vCPUs	Memory (GiB)	Instance Storage (GiB)	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	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
<input type="checkbox"/>	t2	t2.xlarge	4	16	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.2xlarge	8	32	EBS only	-	Moderate	Yes
<input type="checkbox"/>	t2	t2.3xlarge	12	48	EBS only	-	Moderate	Yes

Cancel Previous Review and Launch Next: Configure Instance Details

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Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot Instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances: 1 [Launch into Auto Scaling Group](#)

Purchasing option: Request Spot Instances

Network: vpc-0809bd63 (default) [Create new VPC](#)

Subnet: No preference (default subnet in any Availability Zone) [Create new subnet](#)

Auto-assign Public IP: Use subnet setting (Enable)

Placement group: Add instance to placement group

Capacity Reservation: Open

Domain join directory: No directory [Create new directory](#)

IAM role: None [Create new IAM role](#)

Warning: You do not have permissions to list instance profiles. Contact your administrator, or check your IAM permissions.

Shutdown behavior: Stop

Stop - Hibernate behavior: Enable hibernation as an additional stop behavior

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Add Storage](#)

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

AMI Details

Amazon Linux 2 AMI (HVM), SSD Volume Type

Free tier eligible

Amazon Linux 2 comes with five years support. It provides the latest security updates, patches, and extras. This AMI is the successor of the Amazon Linux 2018.03 AMI.

Root Device type: ebs Virtualization type: hvm

Instance Type

Instance Type	ECUs	vCPUs	Memory (GiB)
t2.micro	-	1	1

Security Groups

Select an existing key pair or create a new key pair

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.

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 name: lab10

Info: 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.

[Download Key Pair](#)

[Cancel](#) [Launch Instances](#)

The screenshot shows the AWS EC2 Management Console interface. The left sidebar is collapsed, and the main area displays a table of instances. One instance is listed:

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
	-	i-05a64e7545aa20575	Running	t2.micro	-	No alarms	us-east-2b	ec2-18-217-36-160

Below the table, there is a message: "Select an instance above". The bottom of the screen shows the Windows taskbar with various pinned icons.

The screenshot shows the AWS sign-in interface. The top navigation bar includes links for LMS, Gmail, WhatsApp, Outlook, Keep, iCampus, GitHub, Teams, Misc, Others, Colab, Net Speed, Acad, port 127.0.0.1:5000, port 127.0.0.1:8000, and HPC Project. The main content area has the AWS logo and the heading "Sign in as IAM user". It contains fields for "Account ID (12 digits) or account alias" (e18cse187), "IAM user name" (Tanvi), and "Password" (redacted). A blue "Sign in" button is at the bottom. Below the form are links for "Sign in using root user email" and "Forgot password?". To the right, there is a dark rectangular box with the text "Build apps faster with GraphQL" in large white letters. Below this, it says "AWS AppSync uses GraphQL APIs to query data from multiple data sources in a single request." An illustration shows a smartphone connected to a network of nodes and lines representing data flow.

Amazon Web Services Sign-In

You must change your password to continue.

AWS account 634102821134

IAM user name Tanvi

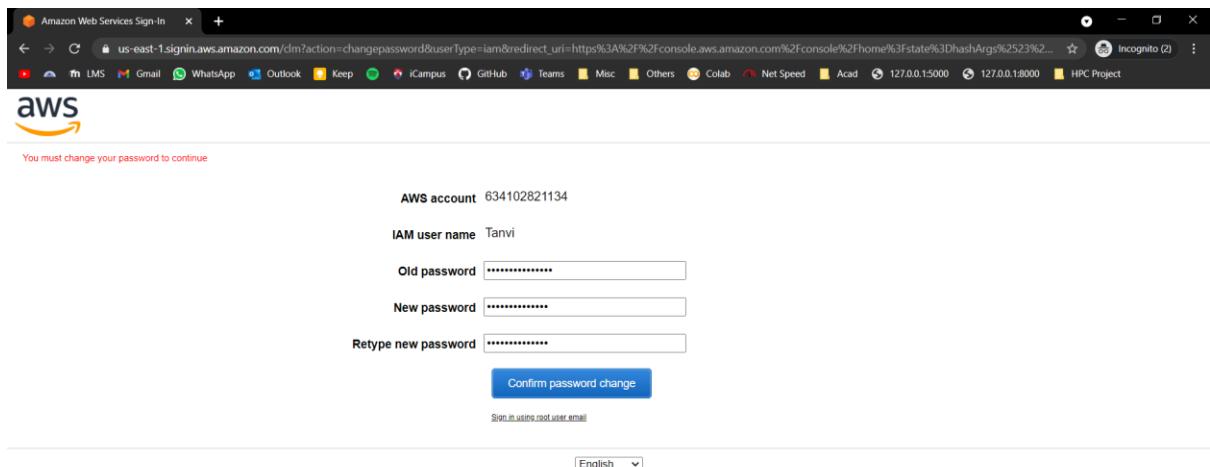
Old password New password Retype new password

Confirm password change

[Sign in using root user email](#)

English

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S3 Management Console

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

Tanvi @ e18cse187 Global Support

Amazon S3 > Create bucket

Create bucket

Buckets are containers for data stored in S3. [Learn more](#)

General configuration

Bucket name Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)

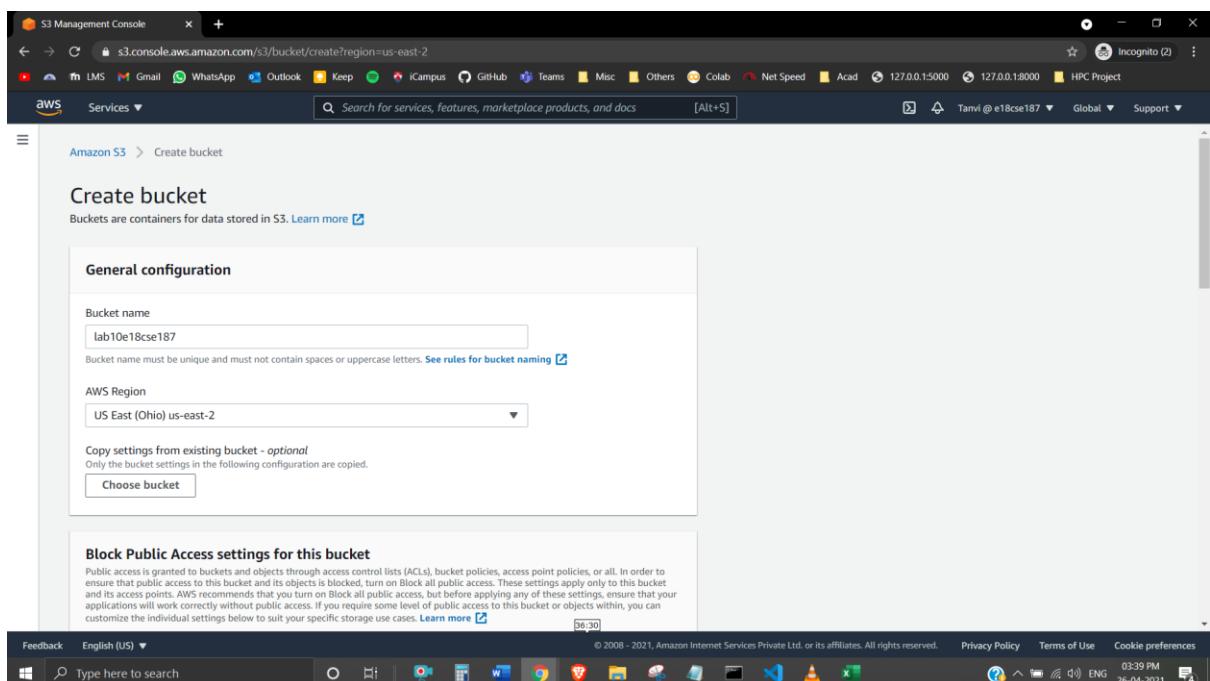
AWS Region

Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
[Choose bucket](#)

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block Public Access. These settings apply only to this bucket and its associated objects. It is recommended that you turn off all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

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S3 Management Console

s3.console.aws.amazon.com/s3/bucket/create?region=us-east-2

Services ▾

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Add tag

Default encryption

Automatically encrypt new objects stored in this bucket. [Learn more](#)

Server-side encryption

Disable

Enable

▶ Advanced settings

After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.

Failed to create bucket

Learn more about [Identity and Access Management in Amazon S3](#)

▶ API response

Cancel Create bucket

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03:39 PM 26-04-2021

This screenshot shows the AWS S3 Management Console interface. A modal window is open, indicating that the bucket creation process has failed. The error message states 'Failed to create bucket' and provides a link to learn more about Identity and Access Management in Amazon S3. The background shows the configuration options for the bucket, including default encryption settings and advanced settings.

Instances | EC2 Management Con

us-east-2.console.aws.amazon.com/ec2/v2/home?region=us-east-2#Instances:instanceState=running

Services ▾

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New EC2 Experience Tell us what you think

EC2 Dashboard [New](#)

Events

Tags

Limits

Instances

Instances [New](#)

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances [New](#)

Dedicated Hosts

Capacity Reservations

Images

AMIs

Elastic Block Store

Volumes

Snapshots

Instances (1) Info

Filter instances

Instance state: running

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
-	i-05a64e7545aa20575	<input checked="" type="radio"/> Running	t2.micro	2/2 checks passed	No alarms	+ us-east-2b	ec2-18-217-36-160.

Select an instance above

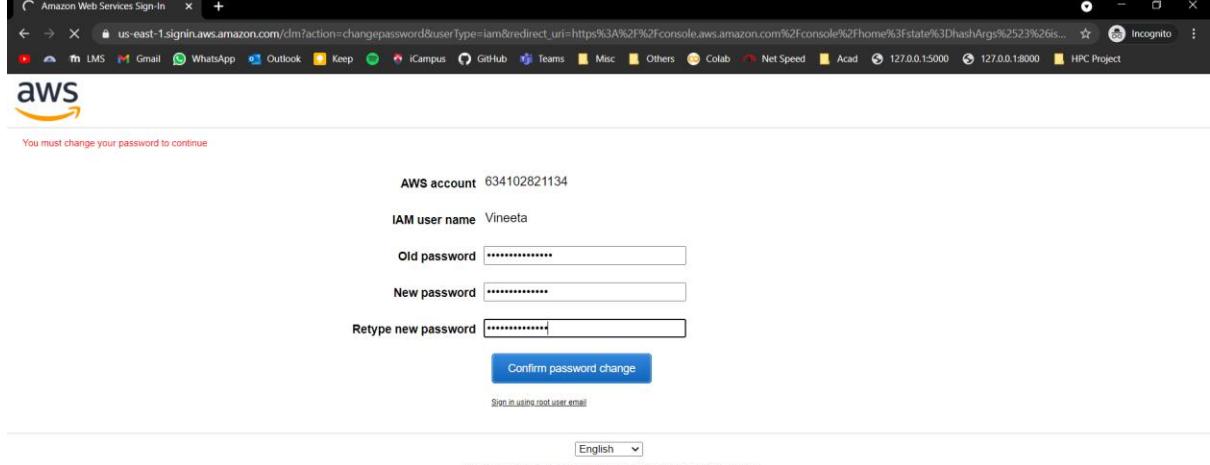
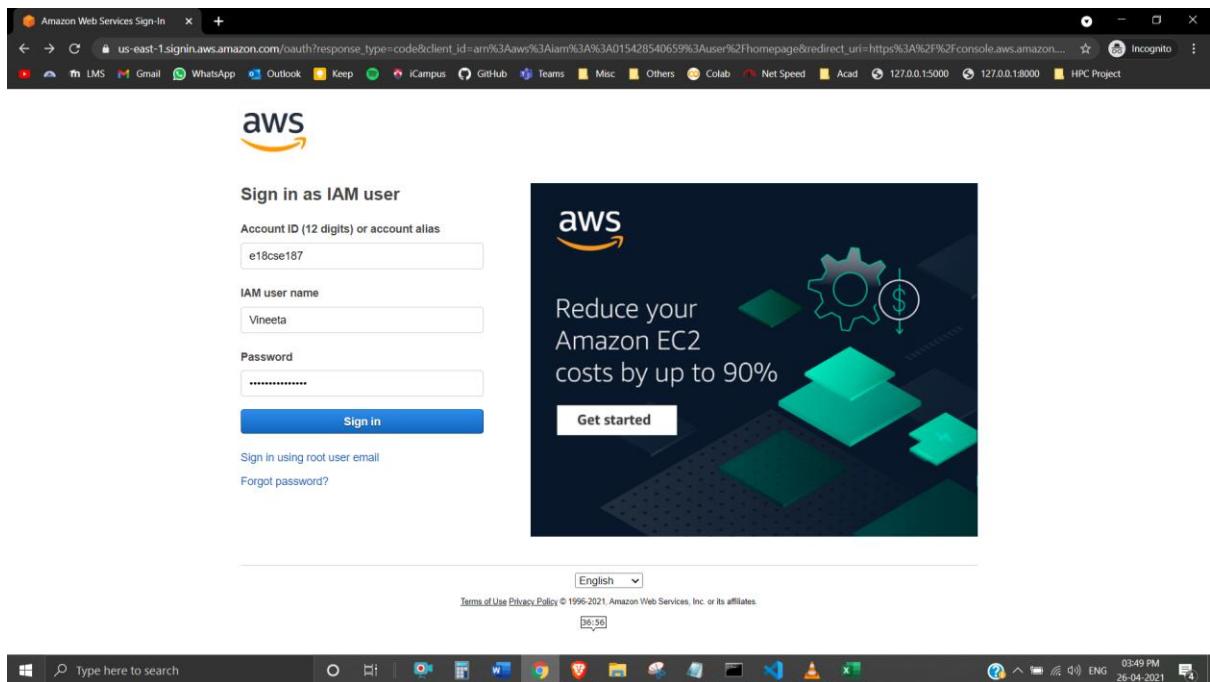
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This screenshot shows the AWS EC2 Management Console. It displays a list of instances, with one instance currently running. The instance details are shown in a table, including its name, instance ID, state, type, status checks, alarm status, availability zone, and public IPv4 DNS. The interface includes various navigation links for different EC2 services like Instance Types, Launch Templates, and Capacity Reservations.



Billing Management Console

console.aws.amazon.com/billing/home?region=us-east-2#/

Incognito

aws Services

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Billing & Cost Management Dashboard

You Need Permissions

You don't have permission to access billing information for this account. Contact your AWS administrator if you need help. If you are an AWS administrator, you can provide permissions for your users or groups by making sure that (1) this account allows IAM and federated users to access billing information and (2) you have the required IAM permissions.

Home

Cost Management

Cost Explorer

Budgets

Budgets Reports

Savings Plans

Cost & Usage Reports

Cost Categories

Cost allocation tags

Billing

Bills

Orders and invoices

Credits

Purchase orders

Preferences

Billing preferences

Payment methods

Consolidated billing

Tax settings

Feedback English (US)

35:37

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This screenshot shows the AWS Billing Management Console homepage. A prominent red circular icon with a white 'X' and the text 'You Need Permissions' is displayed, indicating that the user lacks the necessary IAM permissions to view billing information. Below this, a message encourages the user to contact their AWS administrator or provide permissions themselves. The left sidebar contains links to various cost management and billing-related services like Cost Explorer, Budgets, and Consolidated Billing. The bottom of the screen shows the Windows taskbar with several open application icons and the system clock.

Online Class-MSOM188L (Meetin... Billing Management Console

console.aws.amazon.com/billing/home?#/account

Incognito

aws Services

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35:37

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03:55 PM 26-04-2021

Asia Pacific (Osaka) Enabled by default

Europe (London) Enabled by default

Asia Pacific (Tokyo) Enabled by default

US West (Oregon) Enabled by default

US West (N. California) Enabled by default

Asia Pacific (Singapore) Enabled by default

Asia Pacific (Sydney) Enabled by default

Canada (Central) Enabled by default

IAM User and Role Access to Billing Information

You can give IAM users and federated users with roles permissions to access billing information. This includes access to Account Settings, Payment Methods, and Report pages. You control which users and roles can see billing information by creating IAM policies. For more information, see [Controlling Access to Your Billing Information](#).

Activate IAM Access

Update Cancel

Account Contract Information

If this account is being used to service public sector customer, please provide the contract details in the fields below.

Is this account being used to service a public sector customer? End User Organization Name: None

Edit

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04:00 PM 26-04-2021

This screenshot shows the 'Account Contract Information' section of the AWS Billing Management Console. It asks if the account is used to service a public sector customer and provides a field for the end user organization name. A 'None' radio button is selected. Below this, there's a 'Edit' link. The top of the page shows the AWS navigation bar and the taskbar at the bottom.

Online Class-MSOM188L (Meetin... Billing Management Console

console.aws.amazon.com/billing/home#/account

Services ▾

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

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aws

Asia Pacific (Osaka) Enabled by default

Europe (London) Enabled by default

Asia Pacific (Tokyo) Enabled by default

US West (Oregon) Enabled by default

US West (N. California) Enabled by default

Asia Pacific (Singapore) Enabled by default

Asia Pacific (Sydney) Enabled by default

Canada (Central) Enabled by default

IAM User and Role Access to Billing Information

You can give IAM users and federated users with roles permissions to access billing information. This includes access to Account Settings, Payment Methods, and Report pages. You control which users and roles can see billing information by creating IAM policies. For more information, see [Controlling Access to Your Billing Information](#).

IAM user/role access to billing information is activated.

Account Contract Information

If this account is being used to service public sector customer, please provide the contract details in the fields below.

Is this account being used to service a public sector customer? ⓘ End User Organization Name: ⓘ None

Contract Name: ⓘ None

Contract Number: ⓘ None

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04:01 PM 26-04-2021

Billing Management Console

console.aws.amazon.com/billing/home#region=us-east-2#

Services ▾

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aws

Billing & Cost Management Dashboard

Spend Summary **Cost Explorer**

Welcome to the AWS Billing & Cost Management console. Your last month, month-to-date, and month-end forecasted costs appear below.

Current month-to-date balance for April 2021, the exchange rate for the Payment Currency is estimated.

0.26 USD which converts to

19.70 INR at today's exchange rate of 75.767675

Month-to-Date Spend by Service **Bill Details**

The chart below shows the proportion of costs spent for each service you use.

\$0

Service	Cost
EC2	\$0.22
CloudFront	\$0.00
CloudWatch	\$0.00
DataTransfer	\$0.00
Other Services	\$0.00
Tax	\$0.04

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Screenshot of the AWS IAM Management Console showing the user summary for 'Penumudy'.

User ARN: arn:aws:iam::634102821134:user/Penumudy

Path: /

Creation time: 2021-04-26 15:02 UTC+0530

Permissions:

- Attached directly
 - IAMUserChangePassword (AWS managed policy)
 - AWSBillingReadOnlyAccess (AWS managed policy)
- Show 2 more
- Permissions boundary (not set)
- Generate policy based on CloudTrail events

Actions: Delete user, Edit user

Navigation: Identity and Access Management (IAM) > Users > Penumudy

Bottom Bar: Feedback English (US) ▾, Type here to search, Taskbar icons, Privacy Policy, Terms of Use, Cookie preferences, 04:03 PM, 26-04-2021, ENG

Screenshot of the AWS IAM Management Console showing the 'Create policy' page.

Visual editor (selected) | **JSON** | Import managed policy

Documentation

A policy defines the AWS permissions that you can assign to a user, group, or role. You can create and edit a policy in the visual editor and using JSON. [Learn more](#)

IAM (All actions)

Actions: Specify the actions allowed in IAM [?](#)

close | [Filter actions](#) | [Switch to deny permissions](#) | [Clone](#) | [Remove](#)

Manual actions (add actions)

All IAM actions (iam:*)

Access level

List (36 selected) | [Expand all](#) | [Collapse all](#)

Read (28 selected)

Tagging (16 selected)

Write (56 selected)

Permissions management (23 selected)

Action warnings [?](#) [37/01]

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Online Class-MSOM188L (Meetin... ● IAM Management Console ●

console.aws.amazon.com/iam/home#/users/Penumudy\$createPolicy?step=edit

LMS Gmail WhatsApp Outlook Keep iCampus GitHub Teams Others Colab Acad Project Prep CC IDE LC Resources FA

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

Clone | Remove

IAM (All actions)

Service IAM

Actions Manual actions

Resources Specific All resources

As a best practice, define permissions for only specific resources in specific accounts. Alternatively, you can grant least privilege using condition keys. [Learn more](#)

Request conditions Specify request conditions (optional)

Add additional permissions

Character count: 111 of 2,048.
The current character count includes character for all inline policies in the user: Penumudy. [37/01]

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Online Class-MSOM188L (Meetin... ● IAM Management Console ●

console.aws.amazon.com/iam/home#/users/Penumudy\$createPolicy?step=review

LMS Gmail WhatsApp Outlook Keep iCampus GitHub Teams Others Colab Acad Project Prep CC IDE LC Resources FA

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

Create policy

1 2

Review policy

Before you create this policy, provide the required information and review this policy.

Name* e18cse187inline

Maximum 128 characters. Use alphanumeric and '+-_@.' characters.

Summary

Service	Access level	Resource	Request condition
Allow (1 of 278 services) Show remaining 277	IAM	Full access	All resources
			None

* Required

Cancel Previous Create policy

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Screenshot of the AWS IAM Management Console showing the user summary for 'Penumudy'. The 'Permissions' tab is selected, displaying four policies applied:

Attached directly	Policy type
IAMUserChangePassword	AWS managed policy
AWSBillingReadOnlyAccess	AWS managed policy
e18cse187inline	Inline policy

Attached from group: AmazonEC2FullAccess (AWS managed policy from group Lab10EC2)

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Screenshot of the AWS IAM Management Console showing the policy details for the inline policy 'e18cse187inline' attached directly to the user 'Penumudy'. The 'Policy summary' tab is selected, showing the JSON code:

```
1+ {
2+   "Version": "2012-10-17",
3+   "Statement": [
4+     {
5+       "Sid": "VisualEditor0",
6+       "Effect": "Allow",
7+       "Action": "iam:*",
8+       "Resource": "*"
9+     }
10+
11 }
```

Attached from group: AmazonEC2FullAccess (AWS managed policy from group Lab10EC2)

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Screenshot of the AWS IAM Management Console showing the "Add permissions to Penumudy" step. The "Attach existing policies directly" button is highlighted.

Grant permissions

Use IAM policies to grant permissions. You can assign an existing policy or create a new one.

Add user to group Copy permissions from existing user Attach existing policies directly

Create policy

Filter policies Search Showing 655 results

Policy name	Type	Used as
<input checked="" type="checkbox"/> AdministratorAccess	Job function	None
<input type="checkbox"/> AdministratorAccess-Amplify	AWS managed	None
<input type="checkbox"/> AdministratorAccess-AWSElasticBeanstalk	AWS managed	None
<input type="checkbox"/> AlexaForBusinessDeviceSetup	AWS managed	None
<input type="checkbox"/> AlexaForBusinessFullAccess	AWS managed	None
<input type="checkbox"/> AlexaForBusinessGatewayExecution	AWS managed	None
<input type="checkbox"/> AlexaForBusinessLifesizeDelegatedAccessPolicy	AWS managed	None

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Screenshot of the AWS IAM Management Console showing the "Summary" page for user "Penumudy".

Identity and Access Management (IAM)

Users ARN: arn:aws:iam::634102821134:user/Penumudy Path: / Creation time: 2021-04-26 15:02 UTC+0530

Permissions Groups (1) Tags Security credentials Access Advisor

Permissions policies (5 policies applied)

Add permissions Add inline policy

Attached directly	Policy type	X
AdministratorAccess	AWS managed policy	X
IAMUserChangePassword	AWS managed policy	X

Show 4 more

Permissions boundary (not set)

Generate policy based on CloudTrail events

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Create policy

A policy defines the AWS permissions that you can assign to a user, group, or role. You can create and edit a policy in the visual editor and using JSON. [Learn more](#)

Visual editor JSON Import managed policy

DENY IAM (All actions)

Service IAM

Actions Manual actions

Resources All resources

Request conditions Specify request conditions (optional)

Add additional permissions

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IAM Management Console

Identity and Access Management (IAM)

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

Settings

Credential report

Organization activity

Service control policies (SCPs)

IAM dashboard

We encountered the following errors while processing your request:

- User: am.aws.iam:634102621134.user/Penumudy is not authorized to perform: iam:GetAccountSummary on resource: * with an explicit deny
- User: am.aws.iam:634102621134.user/Penumudy is not authorized to perform: iam>ListAccountAliases on resource: * with an explicit deny

IAM resources

We encountered the following errors while processing your request:

- User: am.aws.iam:634102621134.user/Penumudy is not authorized to perform: iam:GetAccountSummary on resource: * with an explicit deny
- User: am.aws.iam:634102621134.user/Penumudy is not authorized to perform: iam>ListAccountAliases on resource: * with an explicit deny

Best practices

- Grant least privilege access: Establishing a principle of least privilege ensures that identities are only permitted to perform the most minimal set of functions necessary to fulfill a specific task, while balancing usability and efficiency.
- Use AWS Organizations: Centrally manage and govern your environment as you scale your AWS resources. Easily create new AWS accounts, group accounts to organize your workflows, and apply policies to accounts or groups for governance.
- Enable Identity federation: Manage users and access across multiple services from your preferred identity source. Using AWS Single Sign-On centrally manage access to multiple AWS accounts and provide users with single sign-on access to all their assigned accounts from one place.
- Enable MFA: For extra security, we recommend that you require multi-factor authentication (MFA) for all users.
- Rotate credentials regularly: Change your own passwords and access keys regularly, and make sure that all users in your account do as well.
- Enable IAM Access Analyzer: Enable IAM Access Analyzer to analyze public, cross-account, and cross-organization access.

Additional information

IAM documentation

Videos, IAM release history and additional resources

Tools

Web identity federation playground

Policy simulator

Quick links

My access key

Related services

AWS Organizations

AWS Single Sign-on (SSO)

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