

Assignment -1

Working with IAM

❖ Creating Users:

➤ Creating User1:

The screenshot shows the AWS IAM Management Console interface. The left sidebar contains navigation links for Identity and Access Management (IAM), including Dashboard, Access management (User groups, Users, Roles, Policies, Identity providers, Account settings), Access reports (Access analyzer, Archive rules, Analyzers, Settings, Credential report, Organization activity), and Feedback. The main content area displays the 'Users (0)' page with an 'Add users' button. Below this, a table shows 'No resources to display'.

The 'Add user' wizard is shown in the 'Set user details' step. The 'User name' field is populated with 'User1'. Below this, there is a link to 'Add another user'. The 'Select AWS access type' section shows two options: 'Programmatic access' (checked) and 'AWS Management Console access' (checked). The 'Console password' section shows 'Autogenerated password' (unchecked) and 'Custom password' (checked).

The bottom of the screen shows the 'Cancel' and 'Next: Permissions' buttons. The footer contains the AWS logo, 'Services' dropdown, search bar, and user profile information (Saroja, Global, Support).

IAM Management Console

console.aws.amazon.com/iam/home#/users\$new?step=details

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

+ Add another user

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

.....

☐ Show password

Require password reset ☒ User 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**

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Start

3:53 PM 8/1/2021

Policy given to User1 is AmazonS3FullAccess

IAM Management Console

console.aws.amazon.com/iam/home#/users\$new?step=permissions&accessKey&login&userNames=User1&passwordReset&passwordType=manual&permissionType=polic...

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

Saroja Global Support

Add user

1 2 3 4 5

▼ Set permissions

Add user to group

Copy permissions from existing user

Attach existing policies directly

Create policy

Filter policies Q s3 Showing 6 results

| | Policy name | Type | Used as |
|-------------------------------------|---|-------------|---------|
| <input type="checkbox"/> | AmazonDMSRedshiftS3Role | AWS managed | None |
| <input checked="" type="checkbox"/> | AmazonS3FullAccess | AWS managed | None |
| <input type="checkbox"/> | AmazonS3OutpostsFullAccess | AWS managed | None |
| <input type="checkbox"/> | AmazonS3OutpostsReadOnlyAccess | AWS managed | None |
| <input type="checkbox"/> | AmazonS3ReadOnlyAccess | AWS managed | None |
| <input type="checkbox"/> | QuickSightAccessForS3StorageManagementAnalyticsReadOnly | AWS managed | None |

Cancel Previous **Next: Tags**

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Start

3:54 PM 8/1/2021

IAM Management Console

console.aws.amazon.com/iam/home#/users\$new?step=tags&accessKey&login&userNames=User1&passwordReset&passwordType=manual&permissionType=policies&pol...

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

Saroja Global Support

Add user

1 2 3 4 5

Add tags (optional)

IAM tags are key-value pairs you can add to your user. Tags can include user information, such as an email address, or can be descriptive, such as a job title. You can use the tags to organize, track, or control access for this user. [Learn more](#)

| Key | Value (optional) | Remove |
|--|----------------------|--------|
| <input type="text" value="Add new key"/> | <input type="text"/> | |

You can add 50 more tags.

Cancel Previous Next: Review

REQ LINKS.bt - Notepad

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Start

3:55 PM 8/1/2021

IAM Management Console

console.aws.amazon.com/iam/home#/users\$new?step=review&accessKey&login&userNames=User1&passwordReset&passwordType=manual&permissionType=policies&pol...

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

Saroja Global Support

Add user

1 2 3 4 5

Review

Review your choices. After you create the user, you can view and download the autogenerated password and access key.

User details

| | |
|------------------------|---|
| User name | User1 |
| AWS access type | Programmatic access and AWS Management Console access |
| Console password type | Custom |
| Require password reset | Yes |
| Permissions boundary | Permissions boundary is not set |

Permissions summary

The following policies will be attached to the user shown above.

| Type | Name |
|----------------|---------------------------------------|
| Managed policy | AmazonS3FullAccess |
| Managed policy | IAMUserChangePassword |

Cancel Previous Create user

https://console.aws.amazon.com/console/home

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Start

3:55 PM 8/1/2021

The screenshot shows the AWS IAM Management Console 'Add user' page. A success message indicates that User1 has been created successfully. Below the message is a 'Download .csv' button and a table with user details.

| User | Access key ID | Secret access key | Email login instructions |
|-------|----------------------|-------------------|--------------------------|
| User1 | AKIA6QGKNUREHB2A3QMN | ***** Show | Send email |

The bottom of the console shows the footer with 'Feedback', 'English (US)', copyright information, and system status (3:56 PM, 8/1/2021).

➤ Creating User2:

Creating User2 is same as User1 so attached only screenshots for policy selected for User2

Policy given to User2 is **AmazonAPIGatewayAdministrator**

The screenshot shows the 'Add user' page at the 'Set permissions' step. The 'Attach existing policies directly' option is selected. A list of policies is displayed, with 'AmazonAPIGatewayAdministrator' selected.

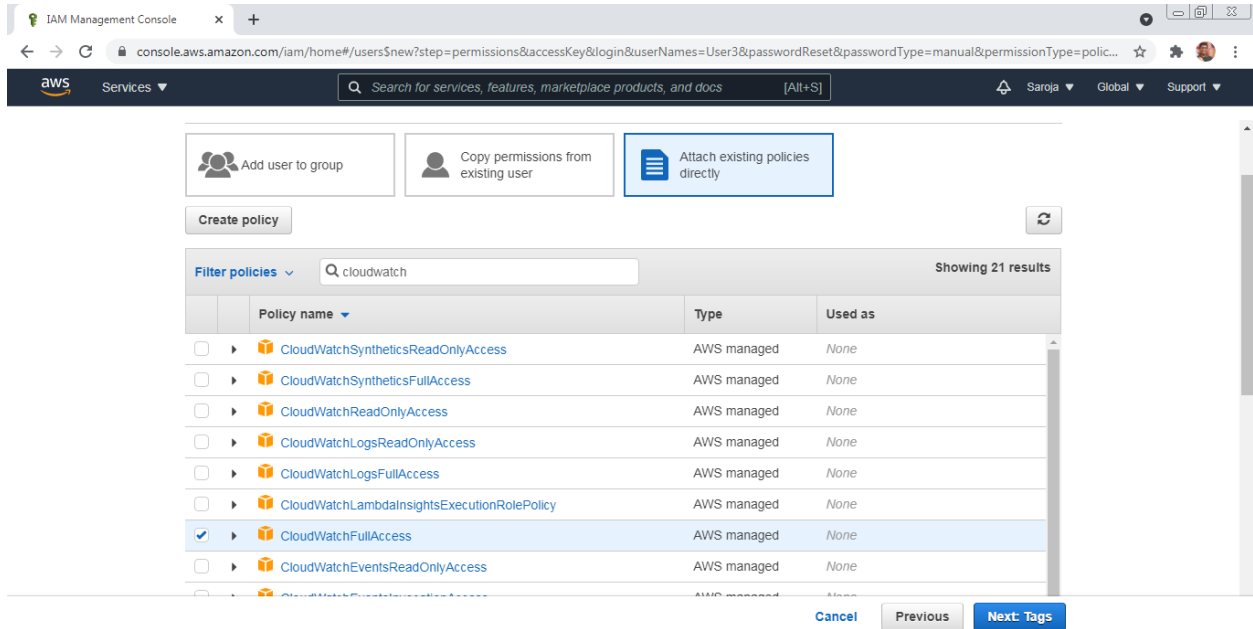
| Policy name | Type | Used as |
|---|-------------|---------|
| <input checked="" type="checkbox"/> AmazonAPIGatewayAdministrator | AWS managed | None |
| <input type="checkbox"/> AmazonAPIGatewayInvokeFullAccess | AWS managed | None |
| <input type="checkbox"/> AmazonAPIGatewayPushToCloudWatchLogs | AWS managed | None |
| <input type="checkbox"/> AmazonAugmentedAIIntegratedAPIAccess | AWS managed | None |
| <input type="checkbox"/> AmazonEC2RoleforDataPipelineRole | AWS managed | None |
| <input type="checkbox"/> AmazonMQApiFullAccess | AWS managed | None |

The bottom of the console shows the footer with 'Feedback', 'English (US)', copyright information, and system status (3:57 PM, 8/1/2021).

➤ Creating User3:

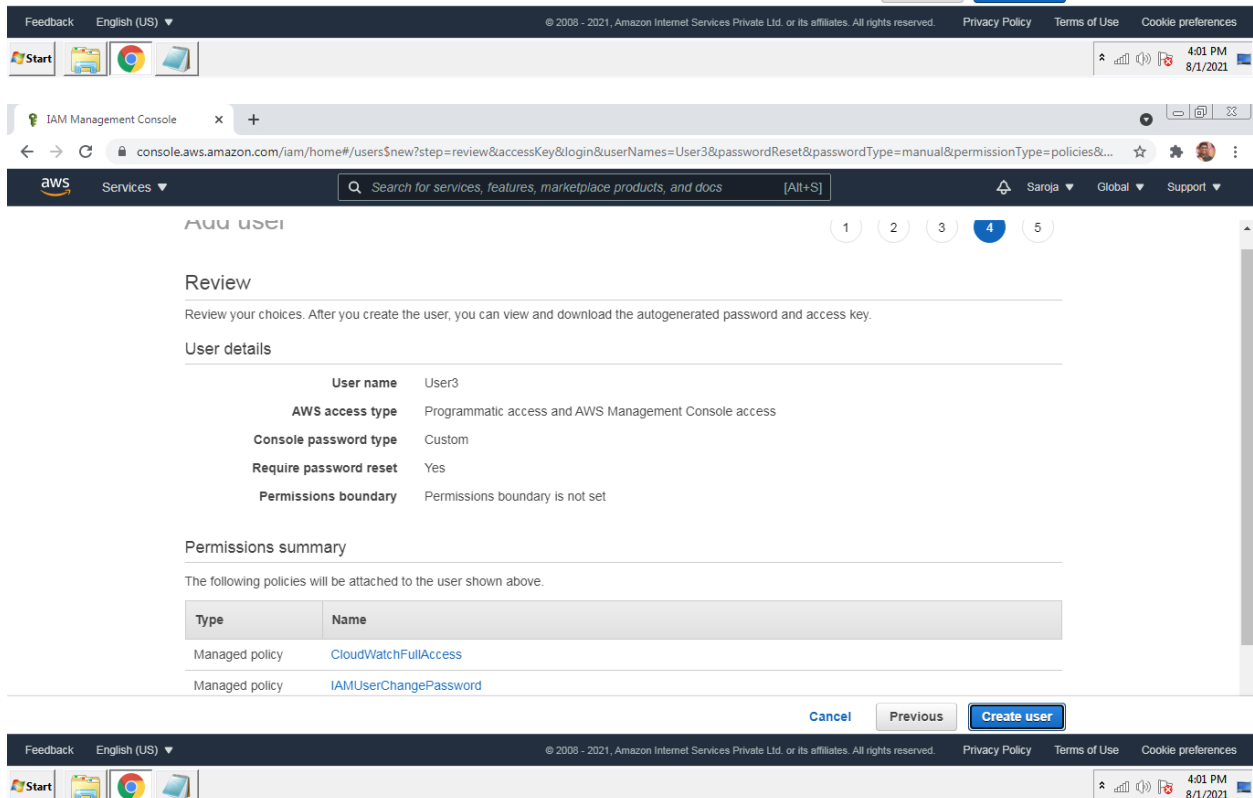
Creating User3 is same as User1 so attached only screenshots for policy selected for User3

Policy given to User3 is **CloudwatchFullAccess**



The screenshot shows the AWS IAM Management Console interface. At the top, there's a navigation bar with the AWS logo, 'Services' dropdown, a search bar, and user information. Below this, the 'Add user to group' section is active, showing options to 'Add user to group', 'Copy permissions from existing user', and 'Attach existing policies directly'. The 'Create policy' button is visible. The 'Filter policies' search bar contains the text 'cloudwatch', and it shows 'Showing 21 results'. A table lists various AWS managed policies, with 'CloudWatchFullAccess' selected. The table has columns for 'Policy name', 'Type', and 'Used as'. The 'CloudWatchFullAccess' policy is highlighted in blue.

| Policy name | Type | Used as |
|--|-------------|---------|
| <input type="checkbox"/> CloudWatchSyntheticsReadOnlyAccess | AWS managed | None |
| <input type="checkbox"/> CloudWatchSyntheticsFullAccess | AWS managed | None |
| <input type="checkbox"/> CloudWatchReadOnlyAccess | AWS managed | None |
| <input type="checkbox"/> CloudWatchLogsReadOnlyAccess | AWS managed | None |
| <input type="checkbox"/> CloudWatchLogsFullAccess | AWS managed | None |
| <input type="checkbox"/> CloudWatchLambdaInsightsExecutionRolePolicy | AWS managed | None |
| <input checked="" type="checkbox"/> CloudWatchFullAccess | AWS managed | None |
| <input type="checkbox"/> CloudWatchEventsReadOnlyAccess | AWS managed | None |



The screenshot shows the 'Review' step of the AWS IAM Management Console. The 'Add user' section is active, showing a progress bar with steps 1 through 5, where step 4 is highlighted. The 'Review' section contains the following information:

User details

- User name: User3
- AWS access type: Programmatic access and AWS Management Console access
- Console password type: Custom
- Require password reset: Yes
- Permissions boundary: Permissions boundary is not set

Permissions summary

The following policies will be attached to the user shown above.

| Type | Name |
|----------------|-----------------------|
| Managed policy | CloudWatchFullAccess |
| Managed policy | IAMUserChangePassword |

IAM Management Console

console.aws.amazon.com/iam/home#/users\$new?step=final&accessKey&login&userNames=User3&passwordReset&passwordType=manual&permissionType=policies&pol...

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

Saroja Global Support

Add user

1 2 3 4 5

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://996856931400.signin.aws.amazon.com/console>

[Download .csv](#)

| | User | Access key ID | Secret access key | Email login instructions |
|---|---------|----------------------|----------------------------|----------------------------|
| ▶ | ✓ User3 | AKIA6QGKNUREL26SEI5G | ***** Show | Send email |

Close

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Start

4:02 PM 8/1/2021

❖ Creating Group and adding Users to the group:

IAM Management Console

console.aws.amazon.com/iamv2/home#/groups

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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

User groups (0) Info

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

[Refresh](#) [Delete](#) [Create group](#)

| | Group name | Users | Permissions | Creation time |
|-------------------------|------------|-------|-------------|---------------|
| No resources to display | | | | |

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Start

4:03 PM 8/1/2021

IAM Management Console

console.aws.amazon.com/iamv2/home#/groups/create

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

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Identity and Access Management (IAM)

- Dashboard
- Access management
 - User groups
 - Users
 - Roles
 - Policies
 - Identity providers
 - Account settings
- Access reports
 - Access analyzer
 - Archive rules
 - Analysers
 - Settings
 - Credential report
 - Organization activity

Name the group

User group name

Enter a meaningful name to identify this group.

Assignment-01

Maximum 128 characters. Use alphanumeric and "+, -, @, _" characters.

Add users to the group - Optional (Selected 3/3) Info

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.

Search

| <input checked="" type="checkbox"/> | User name | Groups | Last activity | Creation time |
|-------------------------------------|-----------|--------|---------------|---------------|
| <input checked="" type="checkbox"/> | User1 | 0 | None | 7 minutes ago |
| <input checked="" type="checkbox"/> | User2 | 0 | None | 5 minutes ago |
| <input checked="" type="checkbox"/> | User3 | 0 | None | 1 minute ago |

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4:04 PM 8/1/2021

Policy given to group access is **AmazonEC2FullAccess**

IAM Management Console

console.aws.amazon.com/iamv2/home#/groups/create

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Saroja Global Support

Identity and Access Management (IAM)

- Dashboard
- Access management
 - User groups
 - Users
 - Roles
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 - Identity providers
 - Account settings
- Access reports
 - Access analyzer
 - Archive rules
 - Analysers
 - Settings
 - Credential report
 - Organization activity

| | | | | |
|-------------------------------------|-------------------------------------|--|-------------|---|
| <input type="checkbox"/> | <input type="checkbox"/> | AmazonEC2RoleforSSM | AWS managed | This policy will soon be deprecated. Ple... |
| <input type="checkbox"/> | <input type="checkbox"/> | AmazonEC2RoleforDataPipelineRole | AWS managed | Default policy for the Amazon EC2 Role ... |
| <input type="checkbox"/> | <input type="checkbox"/> | AmazonEC2RoleforAWSCodeDeployLimited | AWS managed | Provides EC2 limited access to S3 buck... |
| <input type="checkbox"/> | <input type="checkbox"/> | AmazonEC2RoleforAWSCodeDeploy | AWS managed | Provides EC2 access to S3 bucket to do... |
| <input type="checkbox"/> | <input type="checkbox"/> | AmazonEC2RolePolicyForLaunchWizard | AWS managed | Managed policy for the Amazon Launch... |
| <input type="checkbox"/> | <input type="checkbox"/> | AmazonEC2ReadOnlyAccess | AWS managed | Provides read only access to Amazon E... |
| <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> | AmazonEC2FullAccess | AWS managed | Provides full access to Amazon EC2 via ... |
| <input type="checkbox"/> | <input type="checkbox"/> | AmazonEC2ContainerServiceforEC2Role | AWS managed | Default policy for the Amazon EC2 Role ... |
| <input type="checkbox"/> | <input type="checkbox"/> | AmazonEC2ContainerServiceRole | AWS managed | Default policy for Amazon ECS service r... |
| <input type="checkbox"/> | <input type="checkbox"/> | AmazonEC2ContainerServiceEventsRole | AWS managed | Policy to enable CloudWatch Events for ... |
| <input type="checkbox"/> | <input type="checkbox"/> | AmazonEC2ContainerServiceAutoscaleRole | AWS managed | Policy to enable Task Autoscaling for A... |
| <input type="checkbox"/> | <input type="checkbox"/> | AmazonEC2ContainerRegistryReadOnly | AWS managed | Provides read-only access to Amazon E... |

Cancel Create group

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4:06 PM 8/1/2021

IAM Management Console

console.aws.amazon.com/iamv2/home#/groups

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Identity and Access Management (IAM)

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analizers

Settings

Credential report

Organization activity

Assignment-01 user group created. View group

Assignment-01 user group created.

User groups (Selected 1/1) Info

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

Filter User groups by property or group name and press enter

| Group name | Users | Permissions | Creation time |
|---------------|-------|-------------|---------------|
| Assignment-01 | 3 | Defined | Now |

Users in this group

- User3
- User2
- User1

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REQ LINKS.txt - Notepad

Start

4:07 PM 8/1/2021

❖ Login details for User1:

Amazon Web Services Sign-In

signin.aws.amazon.com/signin?redirect_uri=https%3A%2F%2Fconsole.aws.amazon.com%2Fconsole%2Fhome%3Ffromtb%3Dtrue%26hashArgs%3D%2523%26isauthco...

aws

Sign in

☐ Root user
Account owner that performs tasks requiring unrestricted access. Learn more

☒ IAM user
User within an account that performs daily tasks. Learn more

Account ID (12 digits) or account alias

996856931400

☐ Remember this account

Next

By continuing, you agree to the AWS Customer Agreement or other agreement for AWS services, and the Privacy Notice. This site uses essential cookies. See our Cookie Notice for more information.

New to AWS?

Create a new AWS account

AWS re:Invent

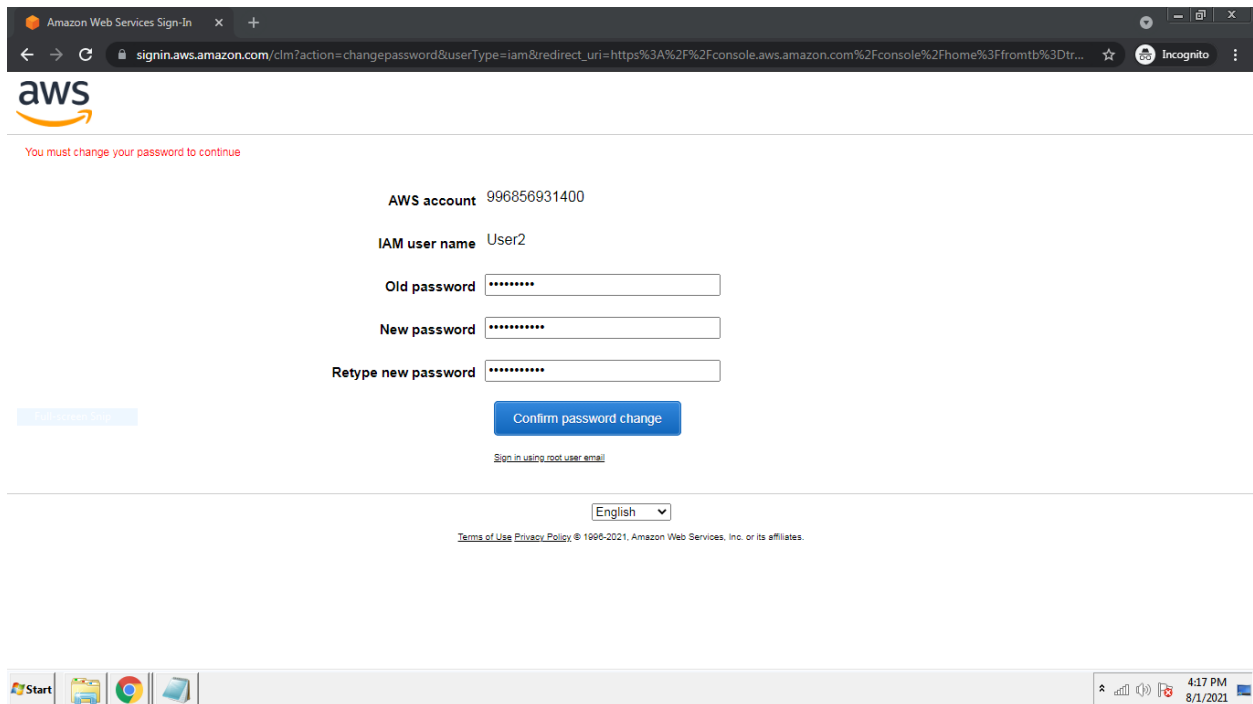
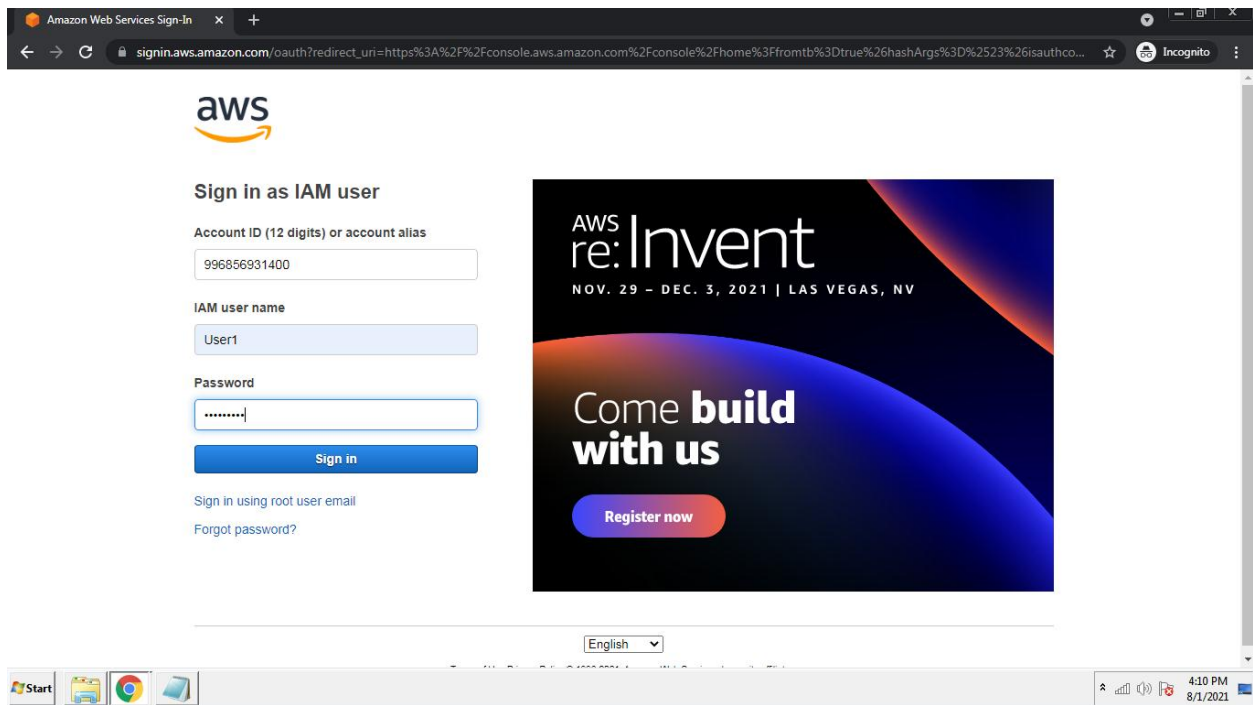
NOV. 29 - DEC. 3, 2021 | LAS VEGAS, NV

Come build with us

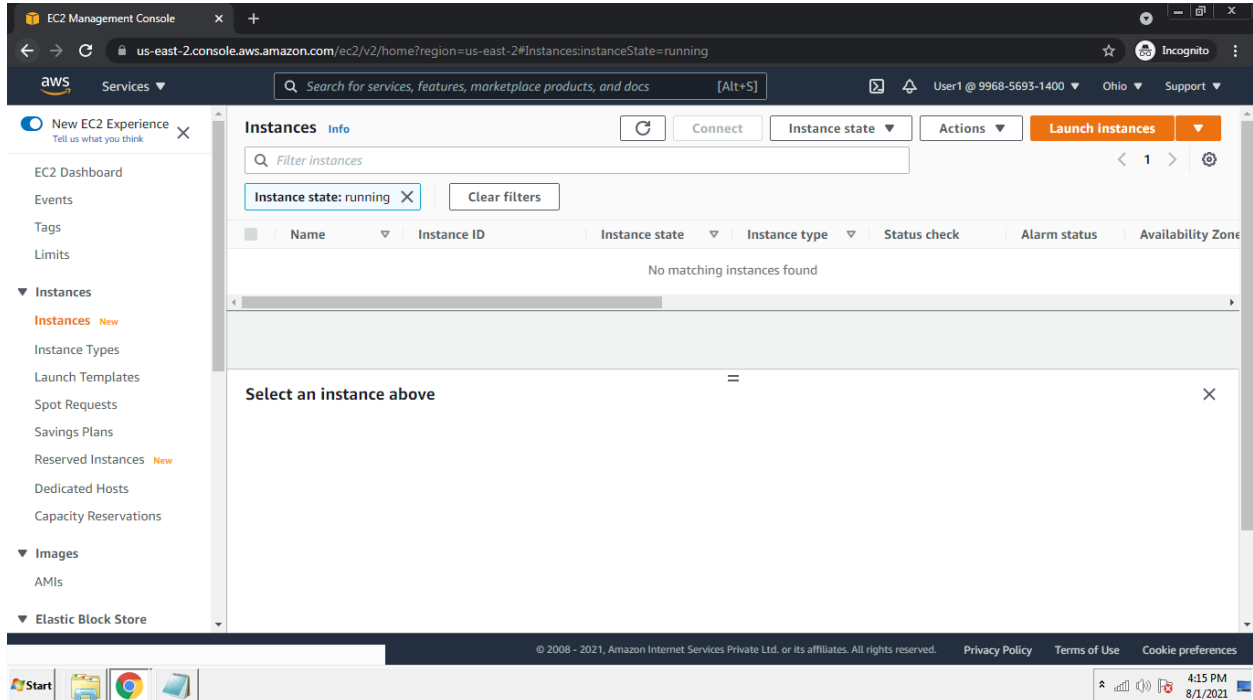
Register now

Start

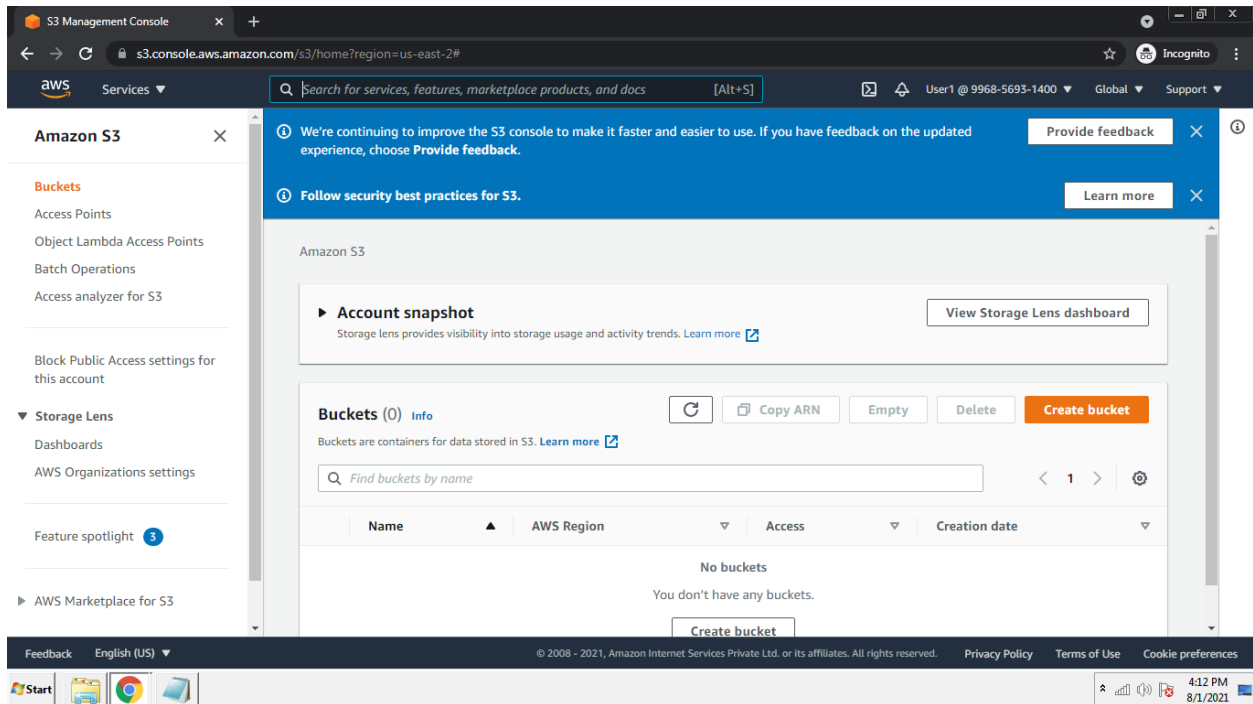
4:08 PM 8/1/2021



Checking group permissions for User1:

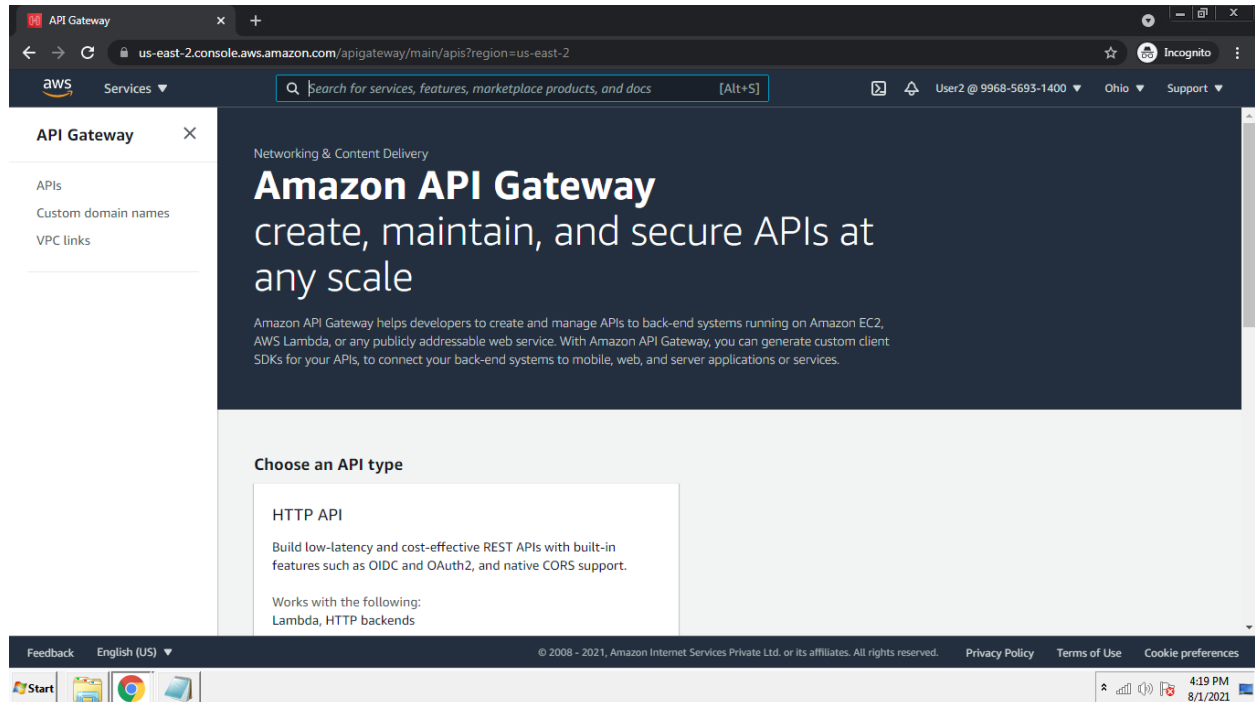


Checking User1 permissions:

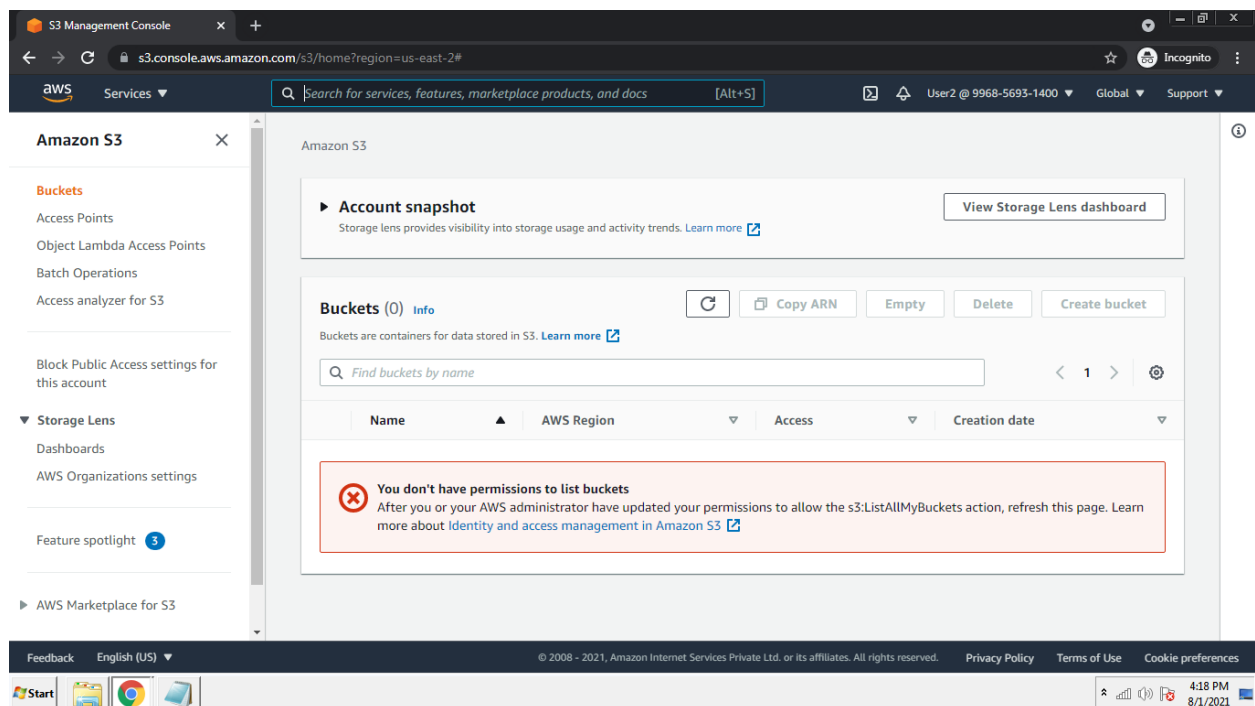


The login process for User2 and User3 is same as User1.

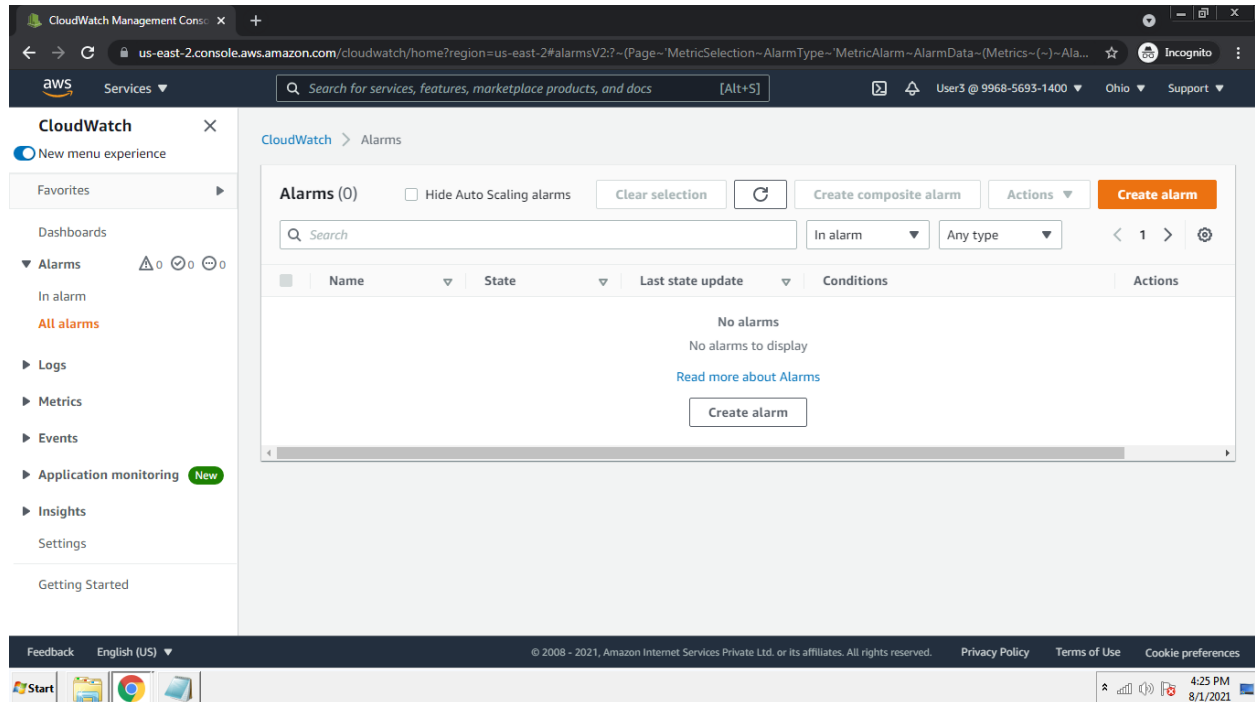
Checking User2 permissions:



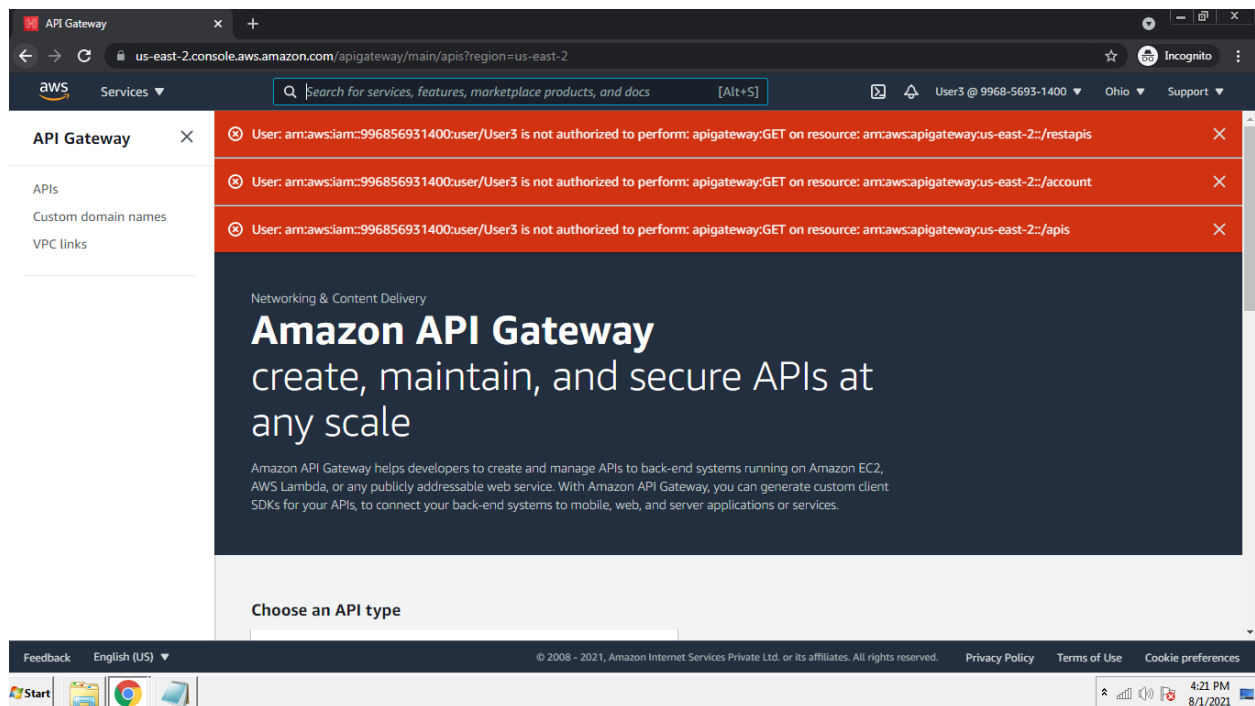
We didn't give permission to User2 to access S3 so it pop-ups the error message



Checking User3 permissions:



We didn't give permission to User3 to access AmazonAPIGatewayAdministrator so it pop-ups the error message



The policy that gives access to IAM is IAMfullAccess.
I've created User4 with IAMfullAccess in permissions

The screenshot shows the AWS IAM console interface for adding permissions to a user named 'User4'. The page title is 'Add permissions to User4' with a step indicator showing '1' (Grant permissions) and '2' (Review). The sub-header is 'Grant permissions'. Below this, a note states: 'Use IAM policies to grant permissions. You can assign an existing policy or create a new one.' There are three main options: 'Add user to group', 'Copy permissions from existing user', and 'Attach existing policies directly' (which is highlighted with a blue border). A 'Create policy' button is also present. Below these options is a search bar with the text 'Filter policies' and a search input containing 'iam'. The results show 'Showing 8 results'. A table lists the policies:

| | Policy name | Type | Used as |
|-------------------------------------|---------------------------------|-------------|---------|
| <input type="checkbox"/> | AWSQuickSightListIAM | AWS managed | None |
| <input type="checkbox"/> | IAMAccessAdvisorReadOnly | AWS managed | None |
| <input type="checkbox"/> | IAMAccessAnalyzerFullAccess | AWS managed | None |
| <input type="checkbox"/> | IAMAccessAnalyzerReadOnlyAccess | AWS managed | None |
| <input checked="" type="checkbox"/> | IAMFullAccess | AWS managed | None |

At the bottom right of the table area are 'Cancel' and 'Next: Review' buttons.

This block shows the Windows taskbar and system tray. The taskbar includes the Start button, several application icons (File Explorer, Google Chrome, etc.), and the system tray on the right shows the time as 4:34 PM on 8/1/2021, along with network, volume, and battery icons.

The screenshot shows the second step of the 'Add permissions to User4' process, titled 'Permissions summary'. The sub-header is 'Permissions summary'. A note states: 'The following policies will be attached to the user shown above.' Below this is a table summarizing the selected policy:

| Type | Name |
|----------------|-------------------------------|
| Managed policy | IAMFullAccess |

At the bottom right of the page are 'Cancel', 'Previous', and 'Add permissions' buttons.

This block shows the Windows taskbar and system tray, identical to the one in the previous block, with the time as 4:34 PM on 8/1/2021.

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

IAM dashboard

Sign-in URL for IAM users in this account

<https://996856931400.signin.aws.amazon.com/console> [Customize](#)

IAM resources

Users: 4 Roles: 6
User groups: 1 Identity providers: 0
Customer managed policies: 0

Security alerts

⚠ The root user for this account does not have Multi-factor authentication (MFA) enabled. Enable MFA to improve security for this account.

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.

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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Identity and Access Management (IAM)

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 > User groups

User groups (0) Info

A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.

[Refresh](#) [Delete](#) [Create group](#)

Filter User groups by property or group name and press enter

| Group name | Users | Permissions | Creation time |
|-------------------------|-------|-------------|---------------|
| No resources to display | | | |

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