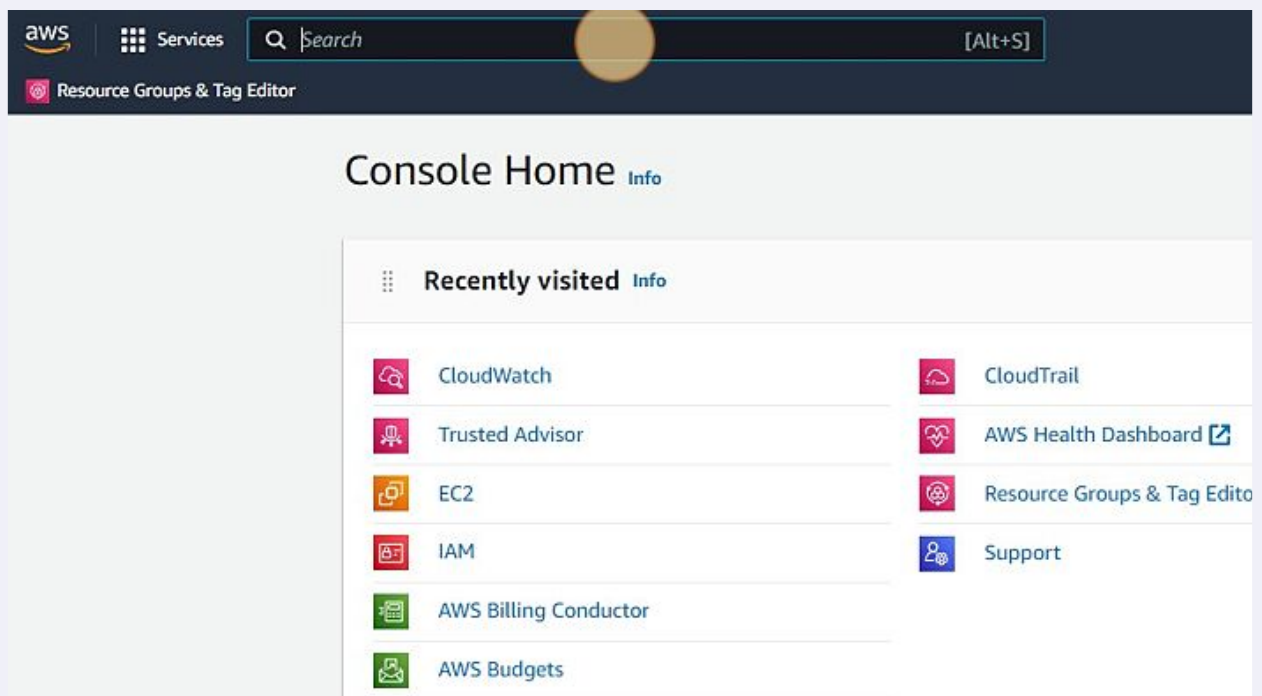


Assignment 1 iNeuron

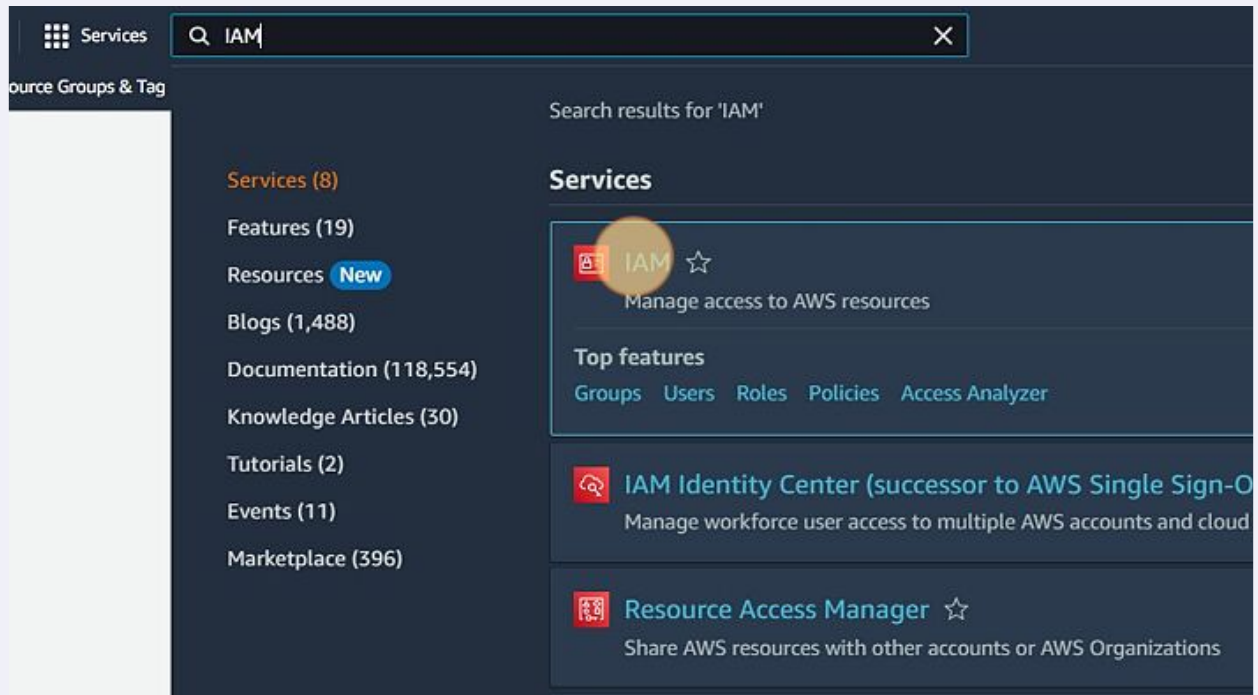
1 Navigate to AWS Console Homepage.

2 Click the "Search" field.

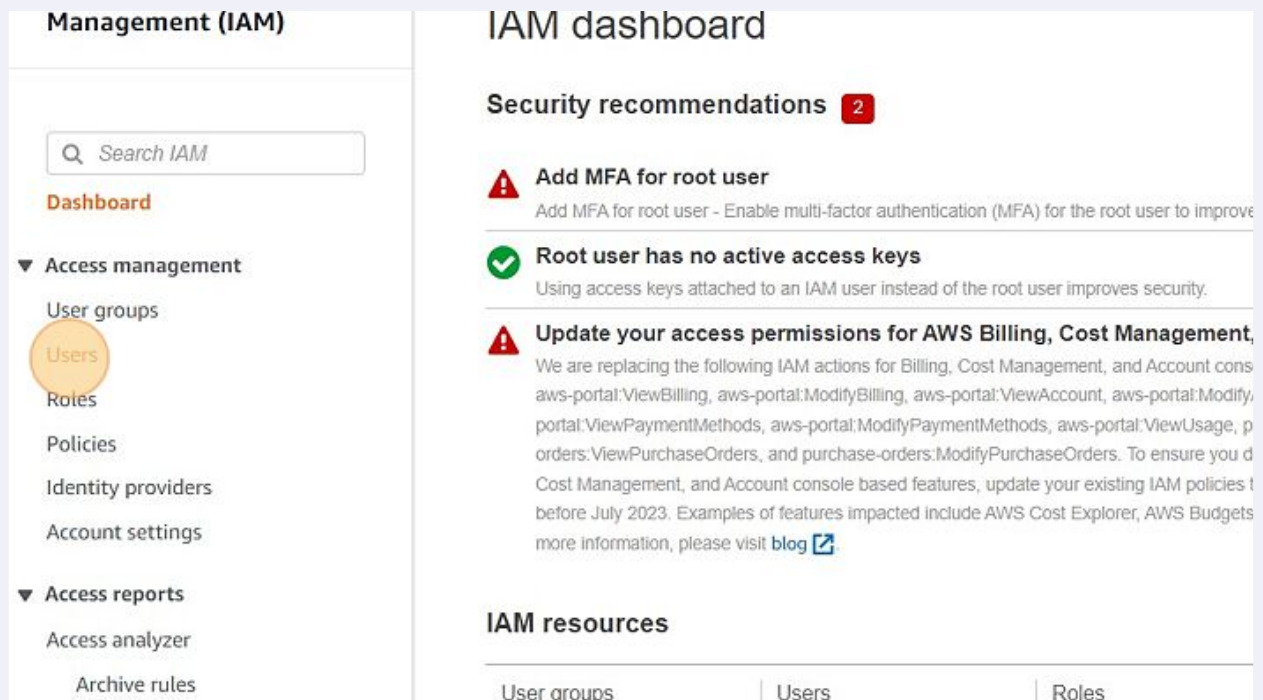


3 Type "IAM"

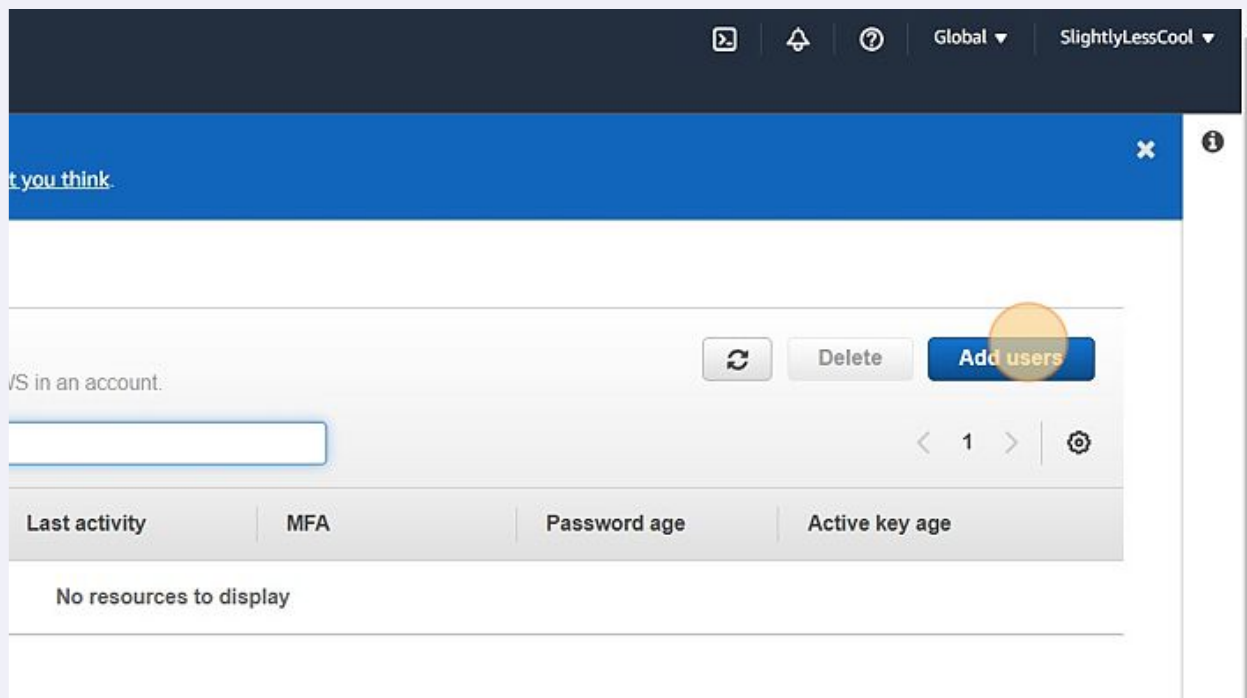
4 Click "IAM"



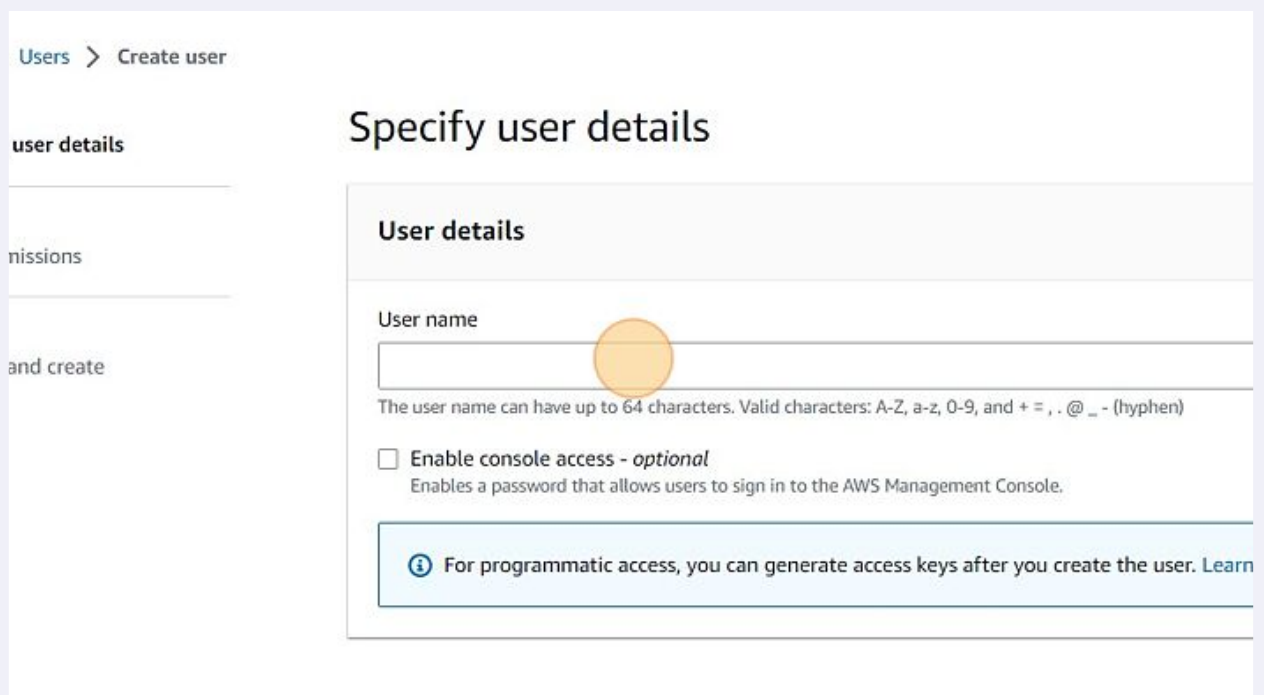
5 Click "Users"



6 Click "Add users"



7 Click the "User name" field.



8 Type "TestUserA" (Any of your choice).

9 Click this checkbox.

Step 1
Specify user details

Step 2
Set permissions

Step 3
Review and create

Specify user details

User details

User name

TestUserA

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . (

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

i For programmatic access, you can generate access keys after you cr

10 Click this radio button.

Step 3
Review and create

Step 4
Retrieve password

User name

TestUserA

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . (

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

Console password

☒ **Autogenerated password**
You can view the password after you create the user.

☐ **Custom password**
Enter a custom password for the user.

• Must be at least 8 characters long

• Must include at least three of the following mix of character types: uppercase

☐ Show password

☒ **Users must create a new password at next sign-in (recommended).**
Users automatically get the [IAMUserChangePassword](#) policy to allow them to c

For programmatic access, you can generate access keys after you cr

11 Click this password field.

Step 4
Retrieve password

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (

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

Console password

☐ Autogenerated password
You can view the password after you create the user.

☒ **Custom password**
Enter a custom password for the user.

• Must be at least 8 characters long

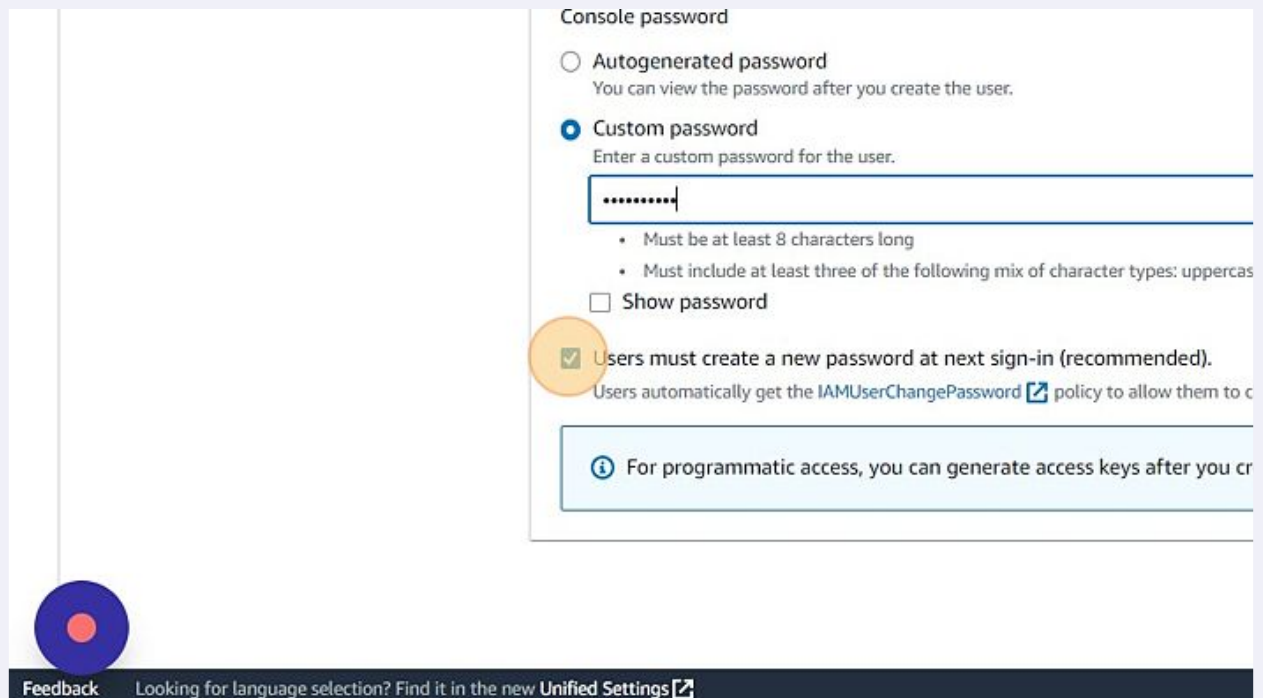
• Must include at least three of the following mix of character types: uppercase lett

☐ Show password

☒ **Users must create a new password at next sign-in (recommended).**
Users automatically get the [IAMUserChangePassword](#) policy to allow them to chang

For programmatic access, you can generate access keys after you create

12 Click this checkbox.



Console password

☐ Autogenerated password
You can view the password after you create the user.

☒ Custom password
Enter a custom password for the user.

.....

- Must be at least 8 characters long
- Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols !@#\$%^&*()_+- (hyphen) = [] {} | '

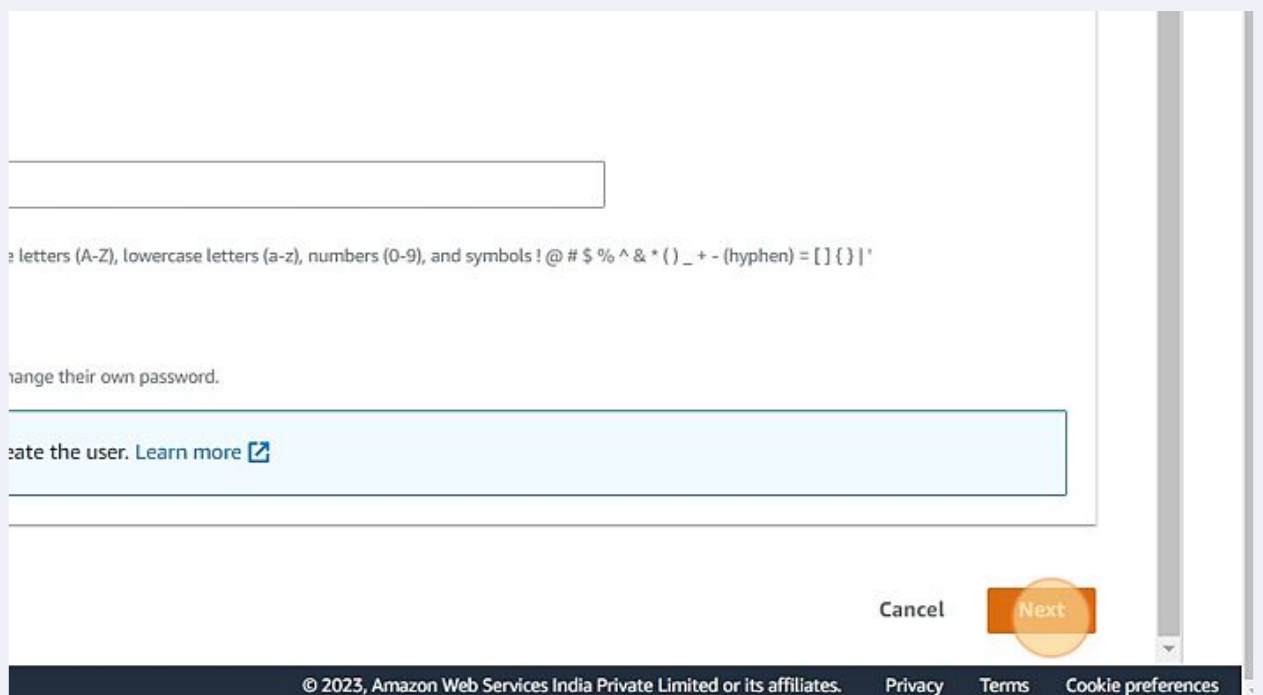
☐ Show password

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

[For programmatic access, you can generate access keys after you create the user. Learn more](#)

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

13 Click "Next"



.....

..... letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols !@#\$%^&*()_+- (hyphen) = [] {} | '

..... change their own password.

..... create the user. [Learn more](#)

Cancel Next

© 2023, Amazon Web Services India Private Limited or its affiliates. [Privacy](#) [Terms](#) [Cookie preferences](#)

14 Click here.

Step 4
Retrieve password

Add user to group
Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.

Get started with groups
Create a group and select policies to attach to the group. We recommend custom permissions. [Learn more](#)

Permissions boundary - optional
Set a permissions boundary to control the maximum permissions for this user. Use

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

15 Click this checkbox.

Step 4
Retrieve password

recommend using groups to manage user permissions by job function.

Get started with groups
Create a group and select policies to attach to the group. We recommend custom permissions. [Learn more](#)

Permissions boundary - optional
Set a permissions boundary to control the maximum permissions for this user. Use

☐ **Use a permissions boundary to control the maximum permissions**
You can select one of the existing permissions policies to define the boundary.

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

- 16 Click the "Filter distributions by text, property or value" field.









▼ **Permissions boundary** - optional

Set a permissions boundary to control the maximum permissions for this user. Use this advanced feature u

☒ **Use a permissions boundary to control the maximum permissions**
You can select one of the existing permissions policies to define the boundary.

Permissions policies (1035)
Select policy to set the permissions boundary.

Q Filter distributions *by text, property or value*

| | Policy name | Type |
|-----------------------|---|-----------------------|
| <input type="radio"/> |   AccessAnalyzerServiceRolePolicy | AWS managed |
| <input type="radio"/> |   AdministratorAccess | AWS managed - job fun |
| <input type="radio"/> |   AdministratorAccess-Amplify | AWS managed |
| <input type="radio"/> |   AdministratorAccess-AWSElasticBeanstalk | AWS managed |

- 17 Type "Adminisrator"

18 Click "Use: "Administrator""

☒ Use a permissions boundary to control the maximum permissions
You can select one of the existing permissions policies to define the boundary.

Permissions policies (1035)
Select policy to set the permissions boundary.

Q Administrator

Use: "Administrator"

| | Policy name | Type |
|-----------------------|--|-------------------|
| <input type="radio"/> | <input type="checkbox"/> AccessAnalyzerServiceRolePolicy | AWS managed |
| <input type="radio"/> | <input type="checkbox"/> AdministratorAccess | AWS managed - job |
| <input type="radio"/> | <input type="checkbox"/> AdministratorAccess-Amplify | AWS managed |
| <input type="radio"/> | <input type="checkbox"/> AdministratorAccess-AWSElasticBeanstalk | AWS managed |
| <input type="radio"/> | <input type="checkbox"/> AlexaForBusinessDeviceSetup | AWS managed |

19 Click this radio button.

Permissions policies (1035)
Select policy to set the permissions boundary.

Q Filter distributions by text, property or value

Administrator X Clear filters

| | Policy name | Type |
|----------------------------------|--|------|
| <input checked="" type="radio"/> | <input type="checkbox"/> AdministratorAccess | AWS |
| <input type="radio"/> | <input type="checkbox"/> AdministratorAccess-Amplify | AWS |
| <input type="radio"/> | <input type="checkbox"/> AdministratorAccess-AWSElasticBeanstalk | AWS |
| <input type="radio"/> | <input type="checkbox"/> AmazonAPIGatewayAdministrator | AWS |
| <input type="radio"/> | <input type="checkbox"/> AWSAppSyncAdministrator | AWS |
| <input type="radio"/> | <input type="checkbox"/> AWSAuditManagerAdministratorAccess | AWS |
| <input type="radio"/> | <input type="checkbox"/> AWSCloud9Administrator | AWS |

20 Click "Next"

| | |
|------------------------|---|
| managed | 0 |
| managed | 0 |
| managed | 0 |
| managed | 0 |
| managed | 0 |
| managed | 0 |
| managed - job function | 0 |
| managed - job function | 0 |
| managed - job function | 0 |

Cancel Previous **Next**

© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

21 Click "Create user"

< 1 >

Used as

job function Permissions boundary

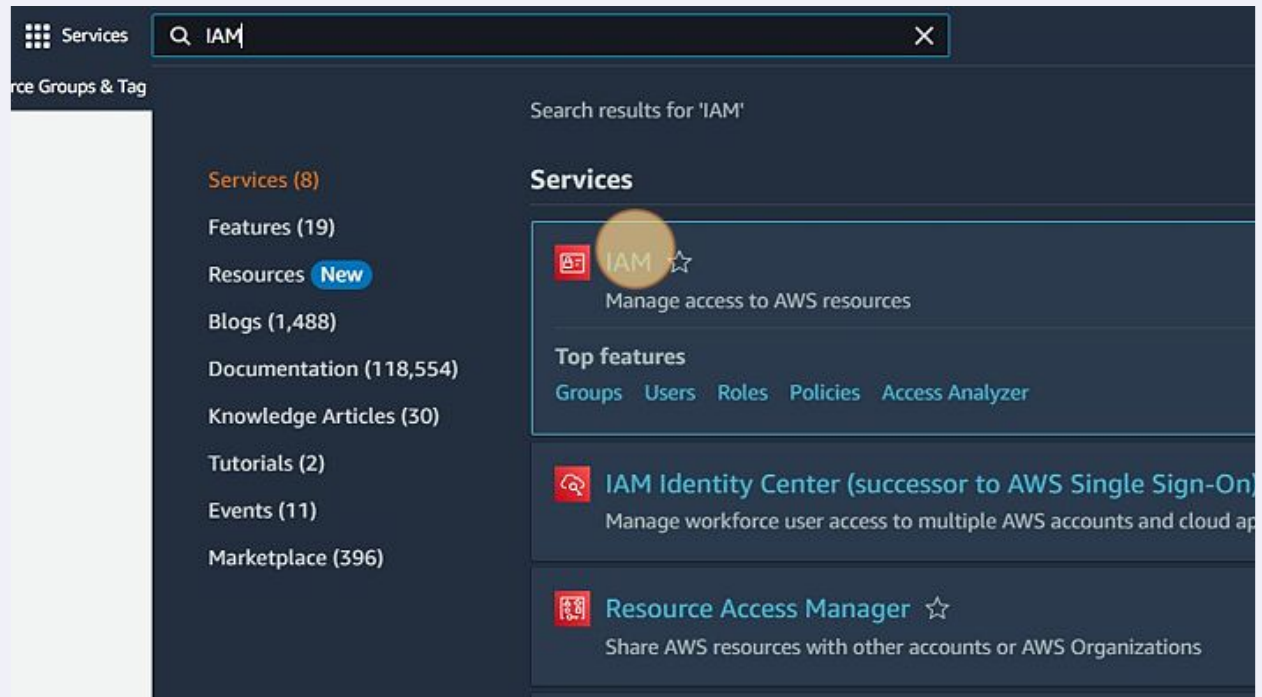
Search for resources. Choose any tags you want to associate with this user.

Cancel Previous **Create user**

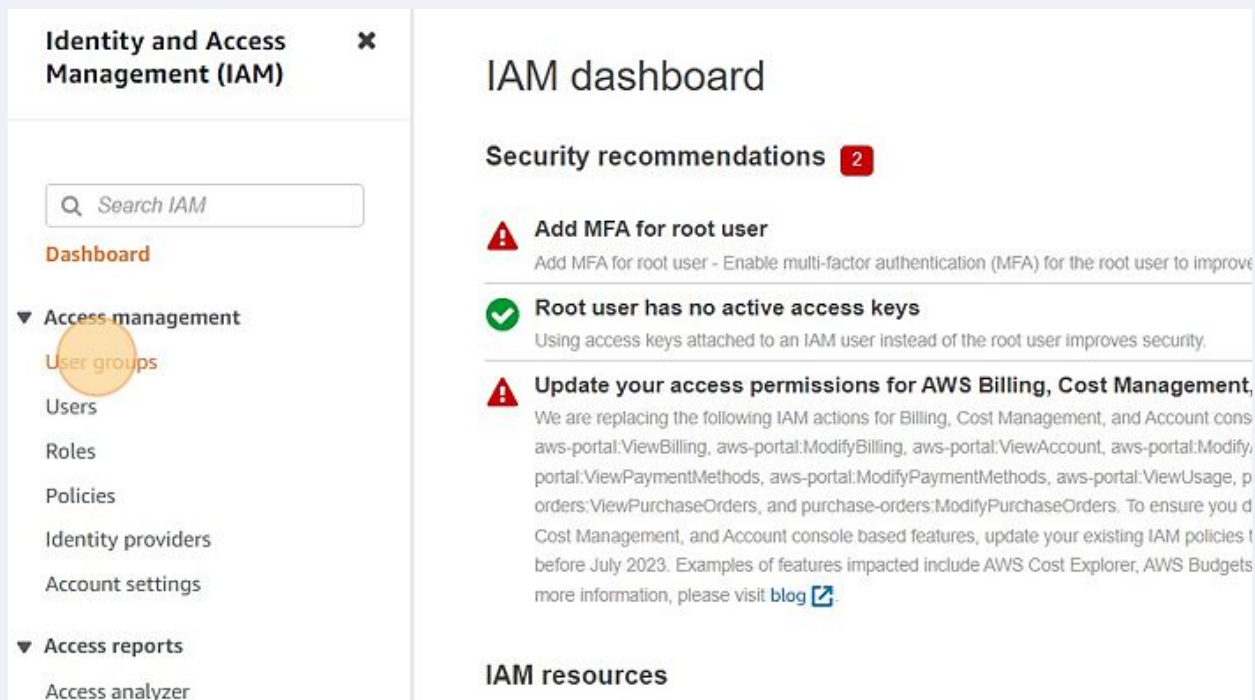
© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

Assignment 2 iNeuron

1 Navigate to IAM Dashboard.



2 Click "User groups"



The screenshot shows the AWS IAM dashboard. On the left, the 'Identity and Access Management (IAM)' sidebar is visible. Under the 'Access management' section, 'User groups' is highlighted with an orange circle. The main content area displays the 'IAM dashboard' with 'Security recommendations' (2 items) and 'IAM resources'.

Identity and Access Management (IAM)

Search IAM

Dashboard

- Access management
 - User groups**
 - Users
 - Roles
 - Policies
 - Identity providers
 - Account settings
- Access reports
 - Access analyzer

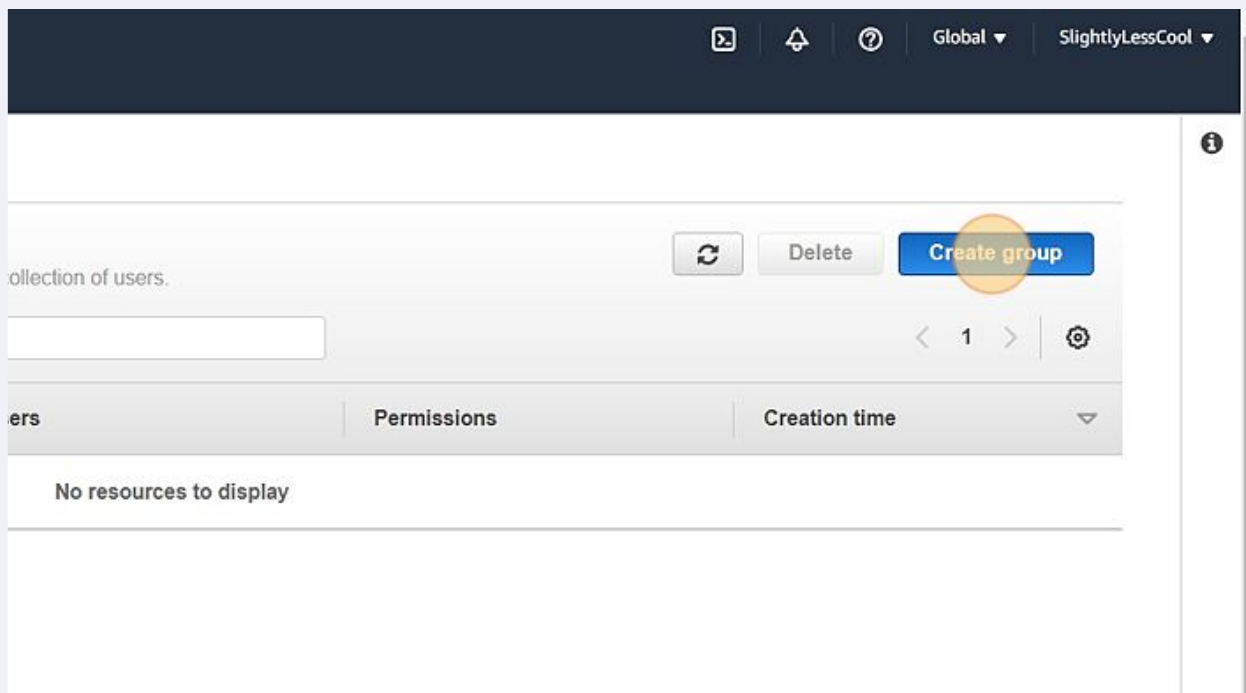
IAM dashboard

Security recommendations 2

- Add MFA for root user**
Add MFA for root user - Enable multi-factor authentication (MFA) for the root user to improve security.
- Root user has no active access keys**
Using access keys attached to an IAM user instead of the root user improves security.
- Update your access permissions for AWS Billing, Cost Management, and Account console**
We are replacing the following IAM actions for Billing, Cost Management, and Account console: `aws-portal:ViewBilling`, `aws-portal:ModifyBilling`, `aws-portal:ViewAccount`, `aws-portal:ModifyAccount`, `aws-portal:ViewPaymentMethods`, `aws-portal:ModifyPaymentMethods`, `aws-portal:ViewUsage`, `purchase-orders:ViewPurchaseOrders`, and `purchase-orders:ModifyPurchaseOrders`. To ensure you don't lose access to these features, update your existing IAM policies to include these actions before July 2023. Examples of features impacted include AWS Cost Explorer, AWS Budgets, and the AWS Billing console. For more information, please visit [blog](#).

IAM resources

3 Click "Create group"



The screenshot shows the AWS IAM 'Groups' page. At the top, there's a header with 'Global' and 'SlightlyLessCool'. Below the header, there's a search bar and a 'Create group' button highlighted with an orange circle. The main content area shows a table with columns 'Groups', 'Permissions', and 'Creation time'. The table is currently empty, displaying 'No resources to display'.

Global | SlightlyLessCool

collection of users.

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

< 1 > | ⚙️

| Groups | Permissions | Creation time |
|-------------------------|-------------|---------------|
| No resources to display | | |

4



5

6

7

8 Click this checkbox.

User groups

- Users
- Roles
- Policies
- Identity providers
- Account settings
- ▼ Access reports
 - Access analyzer
 - Archive rules
 - Analyzers
 - Settings
 - Credential report
 - Organization activity
 - Control policies (SCPs)

| | |
|-------------------------------------|------------------------------------|
| <input type="checkbox"/> | + DatabaseAdministrator |
| <input type="checkbox"/> | + AWSSSOMasterAccountAdministrator |
| <input type="checkbox"/> | + AWSCloud9Administrator |
| <input type="checkbox"/> | + AWSSSOMemberAccountAdministrator |
| <input type="checkbox"/> | + SystemAdministrator |
| <input checked="" type="checkbox"/> | + AdministratorAccess |
| <input type="checkbox"/> | + AmazonAPIGatewayAdministrator |
| <input type="checkbox"/> | + AWSAppSyncAdministrator |
| <input type="checkbox"/> | + NetworkAdministrator |
| <input type="checkbox"/> | + AdministratorAccess-Amplify |

Feedback Looking for language selection? Find it in the new Unified Settings

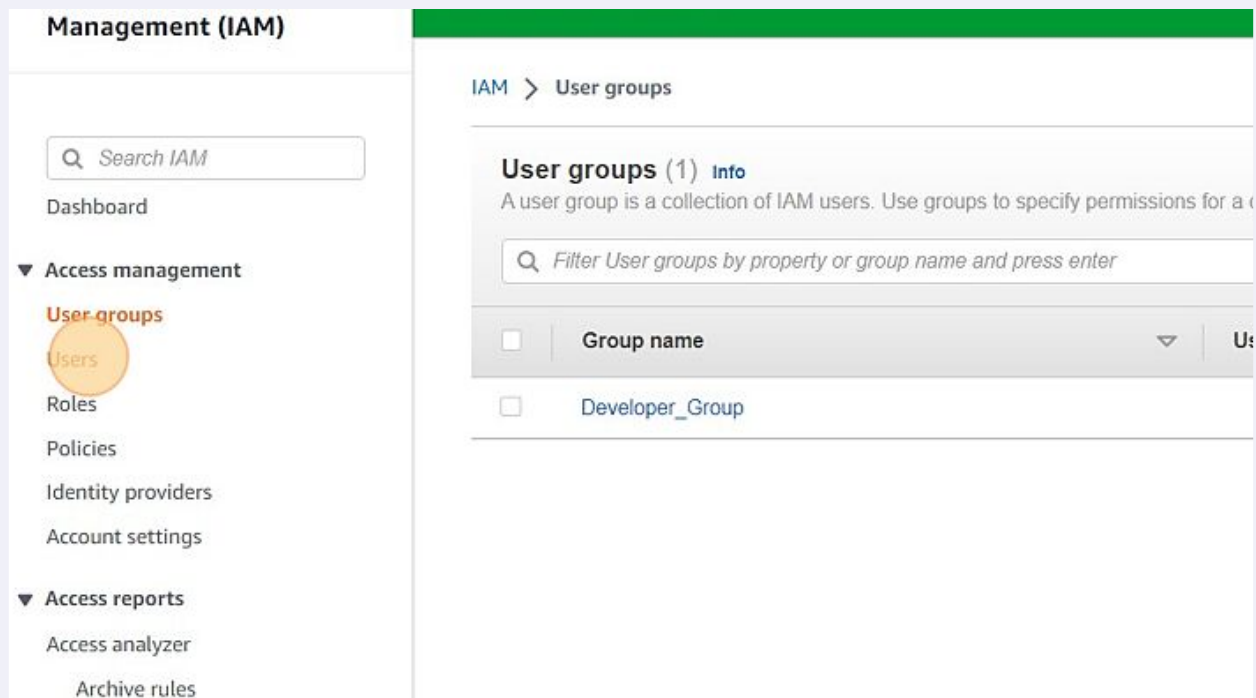
9 Click "Create group"

| | |
|----------------------------|------------------------------|
| AWS managed - job function | Provides full access to AWS |
| AWS managed | Provides full access to crea |
| AWS managed | Provides administrative acc |
| AWS managed - job function | Grants full access permissio |
| AWS managed | Grants account administrati |
| AWS managed | Grants account administrati |
| AWS managed | Provides administrative acc |
| AWS managed | Provides access within Ama |

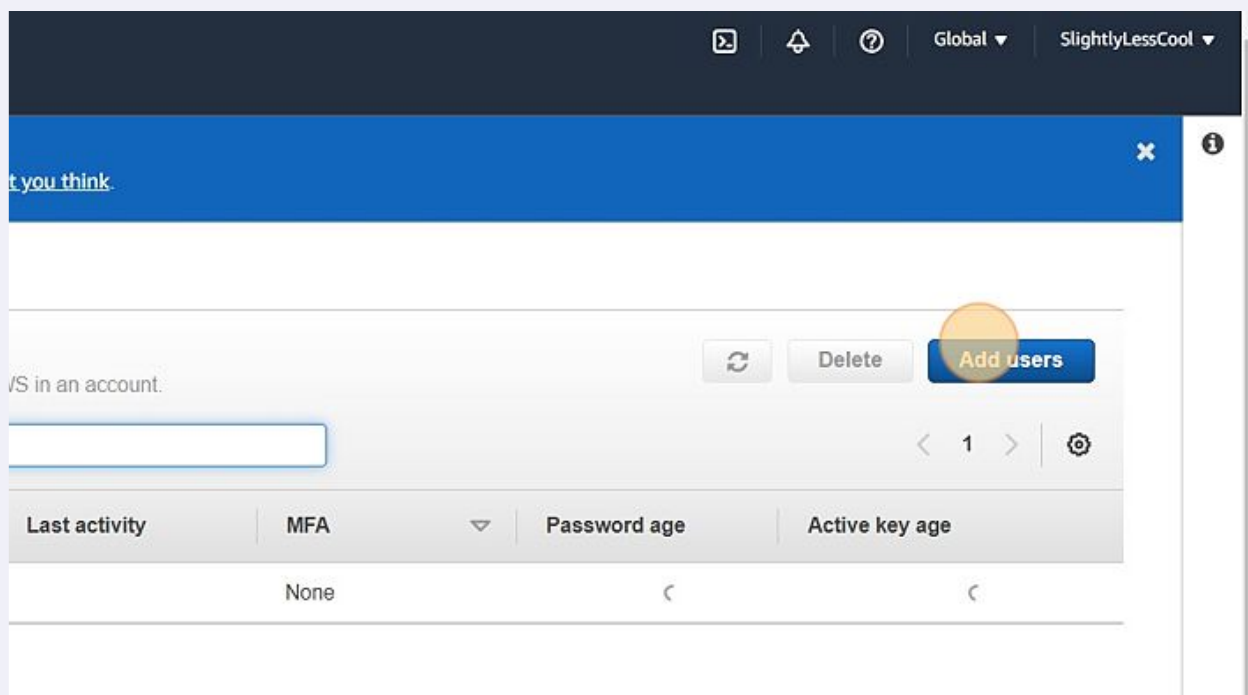
Cancel Create group

© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

10 Click "Users"



11 Click "Add users"



- 12 Click the "User name" field.

> Create user

tails

te

Specify user details

User details

User name

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and * = , . @ _ - (hyphen)

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

[For programmatic access, you can generate access keys after you create the user. **Learn more**](#)

- 13 Type "Ironman".

14 Click this checkbox.

Step 1
Specify user details

Step 2
Set permissions

Step 3
Review and create

Specify user details

User details

User name

Ironman

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . (

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

For programmatic access, you can generate access keys after you cr

15 Click this password field.

Step 4
Retrieve password

The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @

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

Console password

☐ **Autogenerated password**
You can view the password after you create the user.

☒ **Custom password**
Enter a custom password for the user.

- Must be at least 8 characters long
- Must include at least three of the following mix of character types: uppercase

☐ **Show password**

☒ **Users must create a new password at next sign-in (recommended).**
Users automatically get the `IAMUserChangePassword` policy to allow them to cha

For programmatic access, you can generate access keys after you cre

16 Double-click this checkbox.

Console password

☐ Autogenerated password
You can view the password after you create the user.

☒ Custom password
Enter a custom password for the user.

- Must be at least 8 characters long
- Must include at least three of the following mix of character types: uppercase, lowercase, numbers, and special characters

☐ Show password

☒ Users must create a new password at next sign-in (recommended).
Users automatically get the [IAMUserChangePassword](#) policy to allow them to c

[i](#) For programmatic access, you can generate access keys after you cr

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

17 Double-click this checkbox.

Console password

☐ Autogenerated password
You can view the password after you create the user.

☒ Custom password
Enter a custom password for the user.

- Must be at least 8 characters long
- Must include at least three of the following mix of character types: uppercase, lowercase, numbers, and special characters

☐ Show password

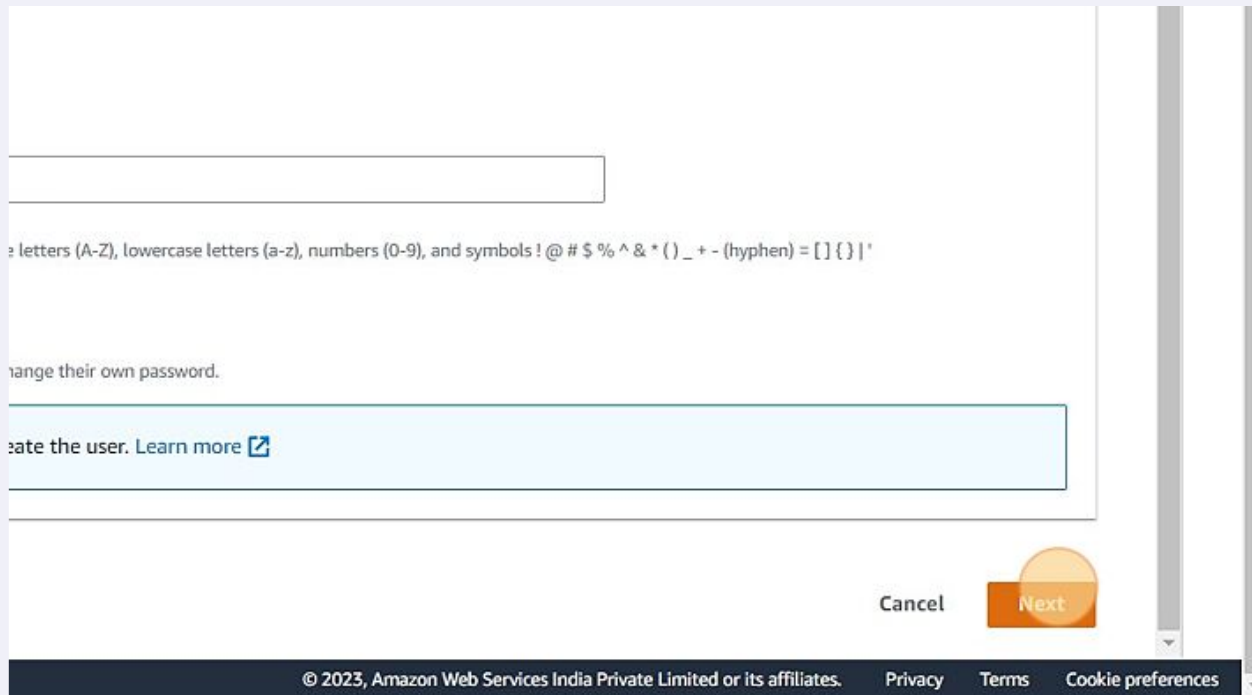
☒ Users must create a new password at next sign-in (recommended).
Users automatically get the [IAMUserChangePassword](#) policy to allow them to c

[i](#) For programmatic access, you can generate access keys after you cr

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

18 Click this checkbox.

19 Click "Next"



The screenshot shows the 'Create user' form in the AWS IAM console. It includes a text input field for the username, a password strength indicator, and a 'Next' button. The form is partially obscured by a light blue overlay.

Letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols ! @ # \$ % ^ & * () _ + - (hyphen) = [] { } | ' "

change their own password.

Create the user. [Learn more](#)

Cancel Next

© 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

20 Click this checkbox.

Step 4
Retrieve password

Add user to group
Add user to an existing group, or create a new group. We recommend using groups to manage user permissions by job function.

User groups (1)

Search groups

| <input type="checkbox"/> | Group name ↗ | Users |
|-------------------------------------|------------------------------|-------|
| <input checked="" type="checkbox"/> | Developer_Group | 0 |

Permissions boundary - optional
Set a permissions boundary to control the maximum permissions for this user. Use

Feedback Looking for language selection? Find it in the new [Unified Settings](#)

21 Click "Next"

process, we recommend assigning permissions to a group instead. Then, add the user to the appropriate group.

< 1 > ⚙

| Attached policies ↗ | Created |
|-------------------------------------|------------------|
| AdministratorAccess | 2023-01-23 (Now) |

this advanced feature used to delegate permission management to others. [Learn more](#)

Cancel Previous **Next**

© 2023, Amazon Web Services India Private Limited or its affiliates. [Privacy](#) [Terms](#) [Cookie preferences](#)

22 Click "Create user"

< 1 >

| Type ▾ | Used as ▾ |
|--------|-------------------|
| Group | Permissions group |

Search for resources. Choose any tags you want to associate with this user.

Cancel Previous **Create user**

© 2023, Amazon Web Services India Private Limited or its affiliates. [Privacy](#) [Terms](#) [Cookie preferences](#)

Amazon Workflow

1 Click "User groups"

The screenshot shows the Amazon IAM console interface. On the left, the 'Identity and Access Management (IAM)' sidebar is visible. Under the 'Access management' section, 'User groups' is highlighted with an orange circle. The main content area shows the 'Users' page, which includes a search bar and a table of users. A blue banner at the top right introduces the new Users list experience.

Identity and Access Management (IAM)

Search IAM

Dashboard

▼ Access management

- User groups
- Users**
- Roles
- Policies
- Identity providers
- Account settings

▼ Access reports

- Access analyzer

Introducing the new Users list experience
We've redesigned the Users list experience to make it easier to use. [Let us know what you think](#)

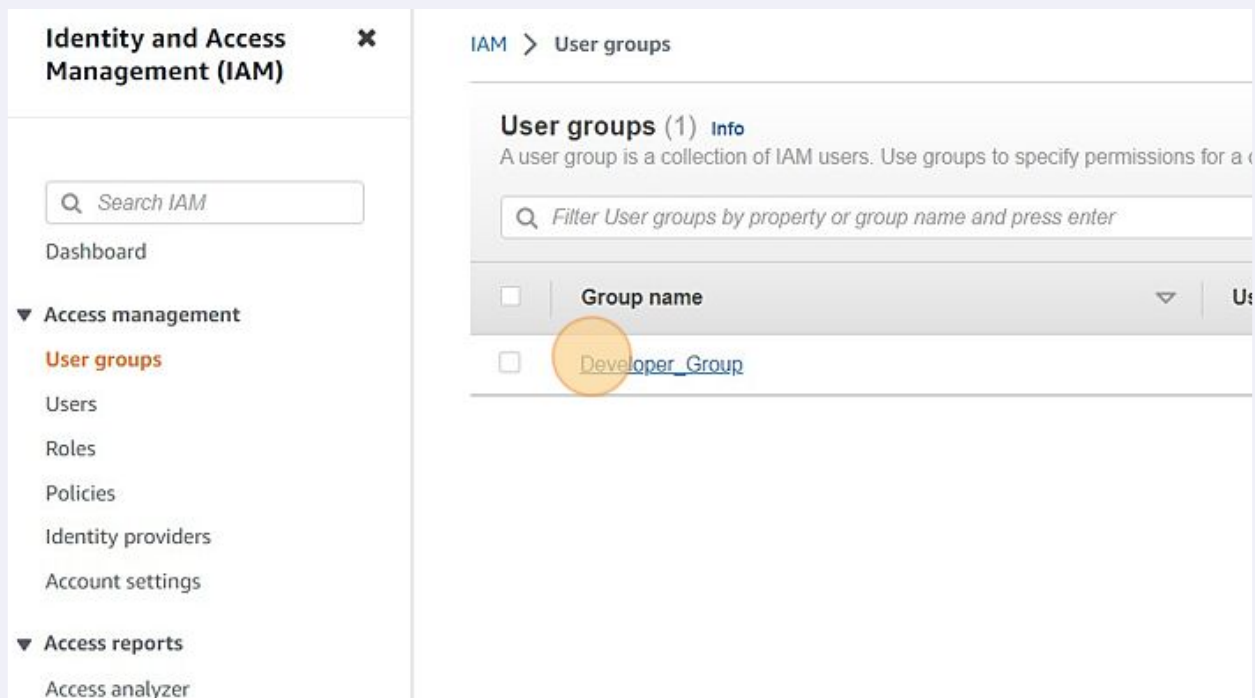
IAM > Users

Users (4) Info
An IAM user is an identity with long-term credentials that is used to interact with AWS services and resources.

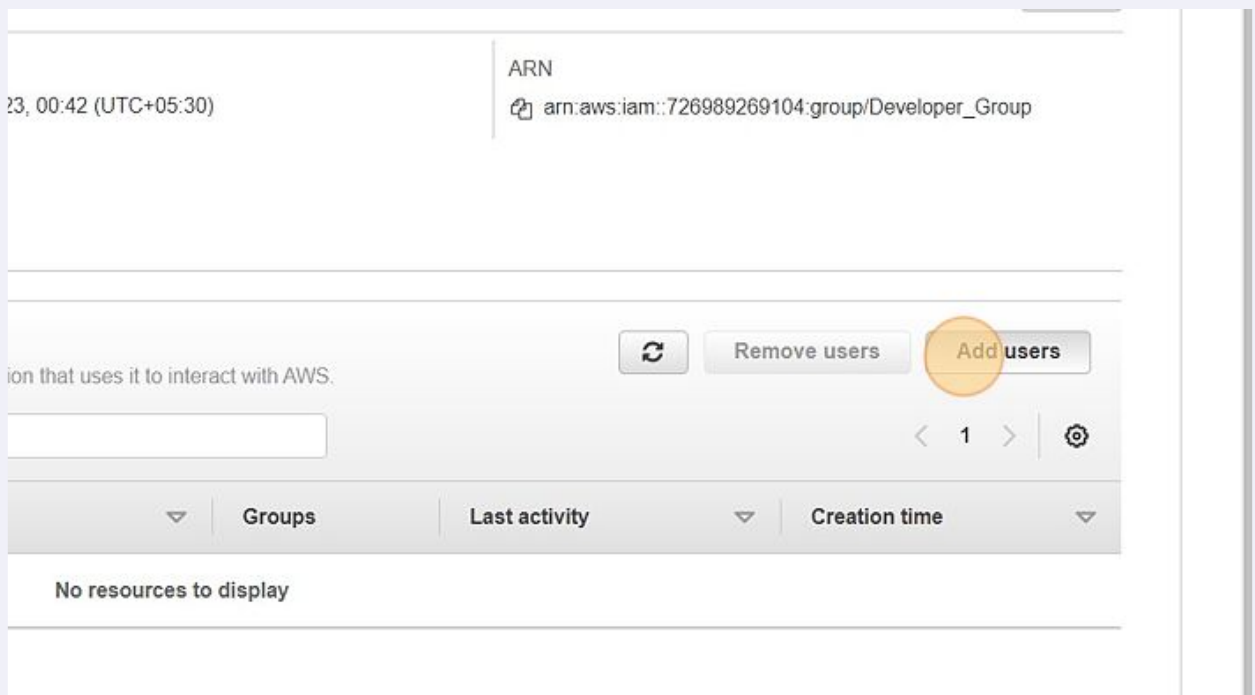
Find users by username or access key

| <input type="checkbox"/> | User name | Groups |
|--------------------------|-----------|--------|
| <input type="checkbox"/> | Hulk | None |
| <input type="checkbox"/> | Ironman | None |
| <input type="checkbox"/> | Spiderman | None |
| <input type="checkbox"/> | TestUserA | None |

2 Click "Developer_Group"



3 Click "Add users"



4 Click this checkbox.

The screenshot shows the AWS IAM console interface. On the left is a navigation sidebar with the following sections:

- Management (IAM)**
 - Search IAM
 - Dashboard
 - Access management
 - User groups
 - Users
 - Roles
 - Policies
 - Identity providers
 - Account settings
 - Access reports
 - Access analyzer
 - Archive rules

The main content area is titled "Add users to Developer_Group" with an "Info" link. Below the title is a search bar and a list of "Other users in this account (4)". The list contains the following users:

| <input type="checkbox"/> | User name |
|-------------------------------------|-----------|
| <input checked="" type="checkbox"/> | Hulk |
| <input type="checkbox"/> | Ironman |
| <input type="checkbox"/> | Spiderman |
| <input type="checkbox"/> | TestUserA |

An orange circle highlights the checkbox for the "Hulk" user.

5 Click this checkbox.

The screenshot shows the AWS IAM console interface, similar to the previous one, but with the "Hulk" user selected. The main content area is titled "Other users in this account (Selected 1/4)". The list of users is the same, but the "Hulk" user is now highlighted in blue, and its checkbox is checked. The "Ironman" user's checkbox is highlighted with an orange circle, indicating the next step.

| <input checked="" type="checkbox"/> | User name |
|-------------------------------------|-----------|
| <input checked="" type="checkbox"/> | Hulk |
| <input type="checkbox"/> | Ironman |
| <input type="checkbox"/> | Spiderman |
| <input type="checkbox"/> | TestUserA |

6 Click this checkbox.

The screenshot shows the AWS IAM console interface. On the left is a navigation menu with sections for 'Access management' (containing 'User groups', 'Users', 'Roles', 'Policies', 'Identity providers', 'Account settings') and 'Access reports' (containing 'Access analyzer', 'Archive rules', 'Analyzers', 'Settings', 'Credential report'). The main panel is titled 'Other users in this account (Selected 2/4)' and contains a search bar and a table of users. The table has a checkbox column and a 'User name' column. The users listed are Hulk, Ironman, Spiderman, and TestUserA. The checkboxes for Hulk and Ironman are checked. The checkbox for Spiderman is highlighted with an orange circle.

| | User name |
|-------------------------------------|-----------|
| <input checked="" type="checkbox"/> | Hulk |
| <input checked="" type="checkbox"/> | Ironman |
| <input type="checkbox"/> | Spiderman |
| <input type="checkbox"/> | TestUserA |

7 Click "Add users"

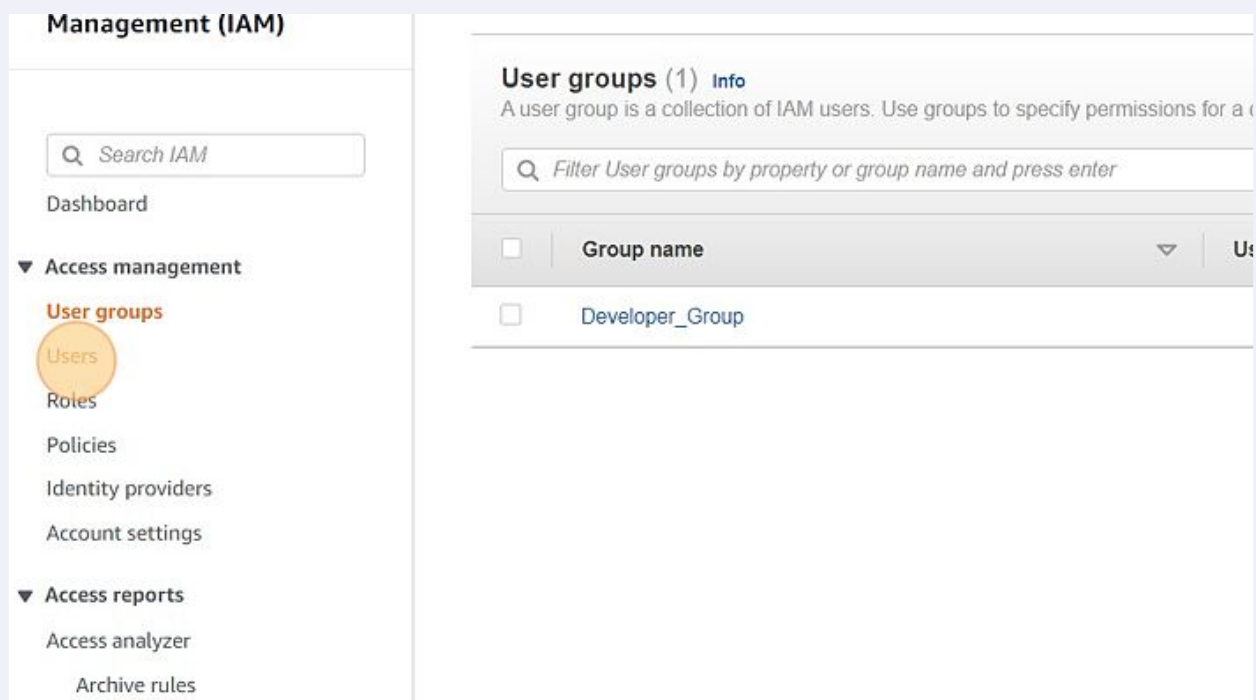
The screenshot shows a table with four columns: 'Groups', 'Last activity', and 'Creation time'. The table contains four rows of data. Below the table are two buttons: 'Cancel' and 'Add users'. The 'Add users' button is highlighted with an orange circle.

| Groups | Last activity | Creation time |
|--------|----------------|---------------|
| 0 | None | Now |
| 0 | None | 6 minutes ago |
| 0 | None | Now |
| 0 | 15 minutes ago | 5 hours ago |

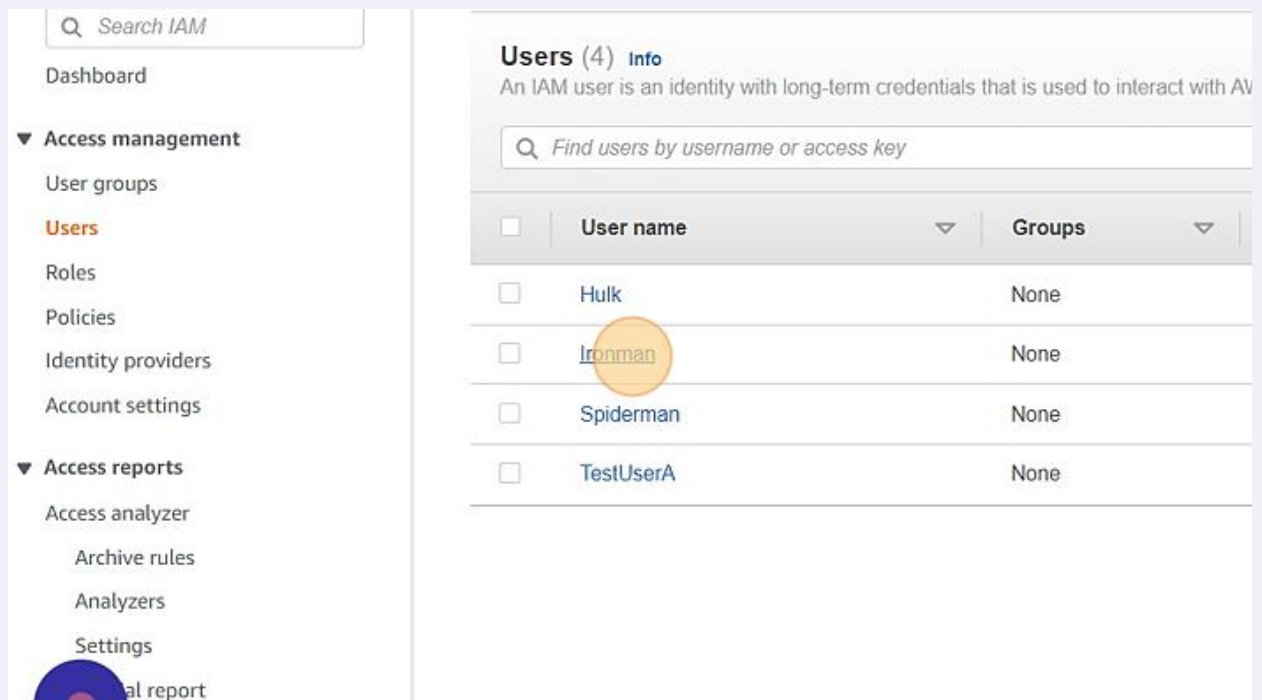
Assignment 3 iNeuron

1 Navigate to IAM Dashboard.

2 Click "Users"



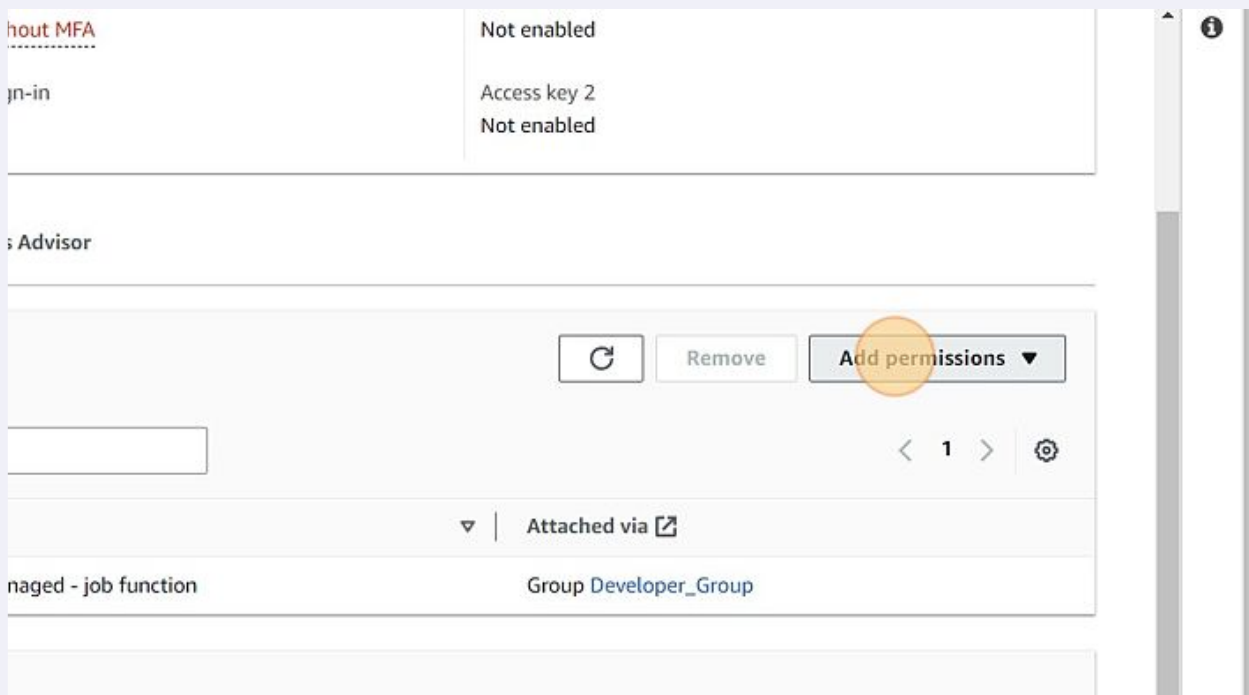
3 Click "Ironman"



The screenshot shows the AWS IAM console interface. On the left is a navigation menu with options like Dashboard, Access management, and Access reports. The 'Users' link under 'Access management' is selected. The main panel displays 'Users (4)' with a search bar and a table of users. The 'Ironman' user is highlighted with a yellow circle.

| | User name | Groups |
|--------------------------|-----------|--------|
| <input type="checkbox"/> | Hulk | None |
| <input type="checkbox"/> | Ironman | None |
| <input type="checkbox"/> | Spiderman | None |
| <input type="checkbox"/> | TestUserA | None |

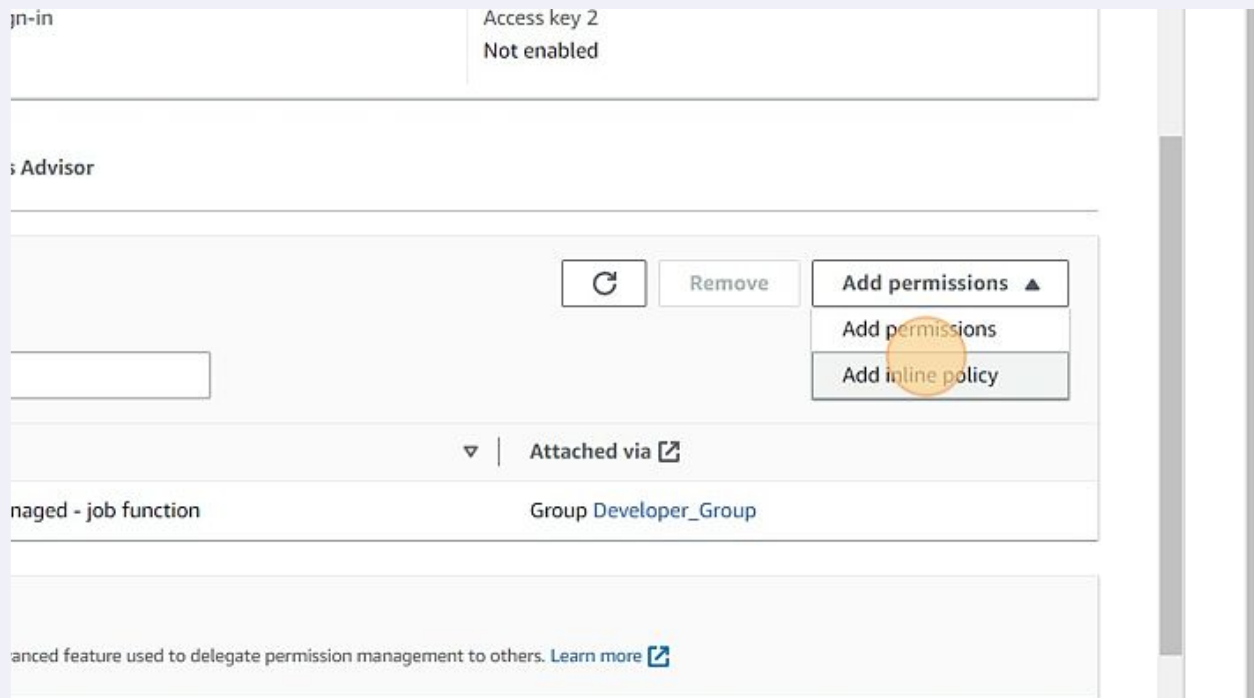
4 Click "Add permissions"



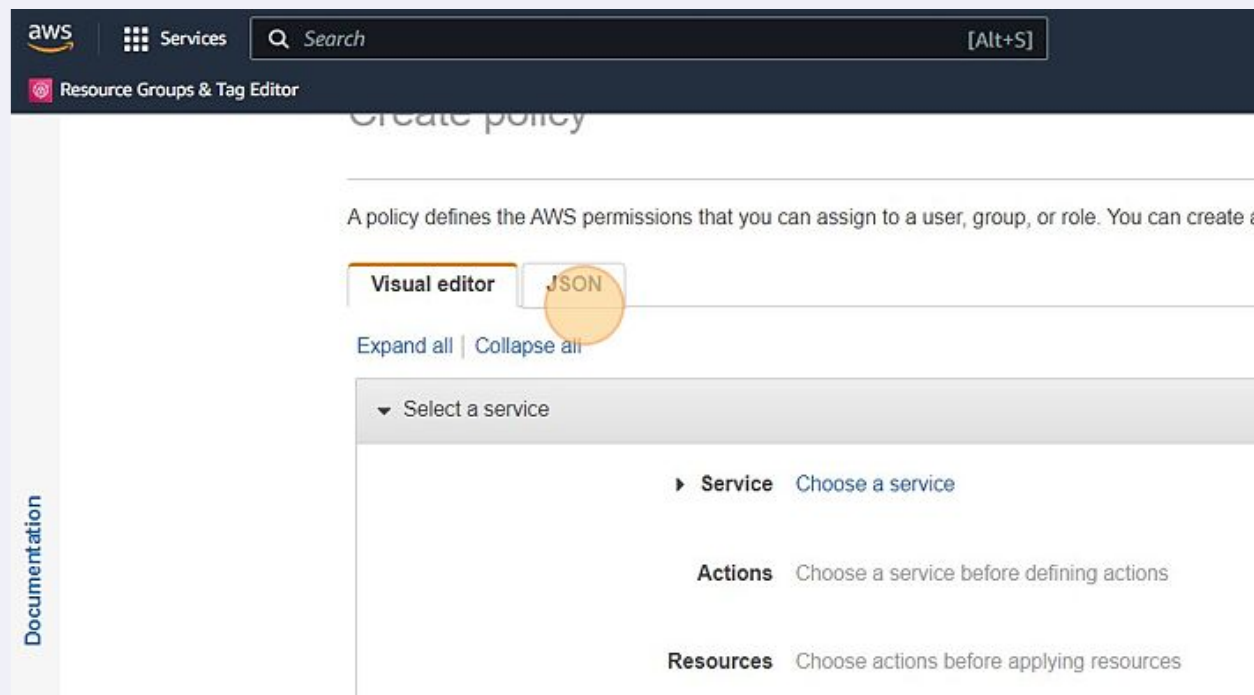
The screenshot shows the 'Add permissions' dialog in the AWS IAM console. The dialog has a search bar, a 'Refresh' button, a 'Remove' button, and an 'Add permissions' button with a dropdown arrow. The 'Add permissions' button is highlighted with a yellow circle. Below the buttons is a table showing the selected permissions.

| | Attached via |
|------------------------|-----------------------|
| Managed - job function | Group Developer_Group |

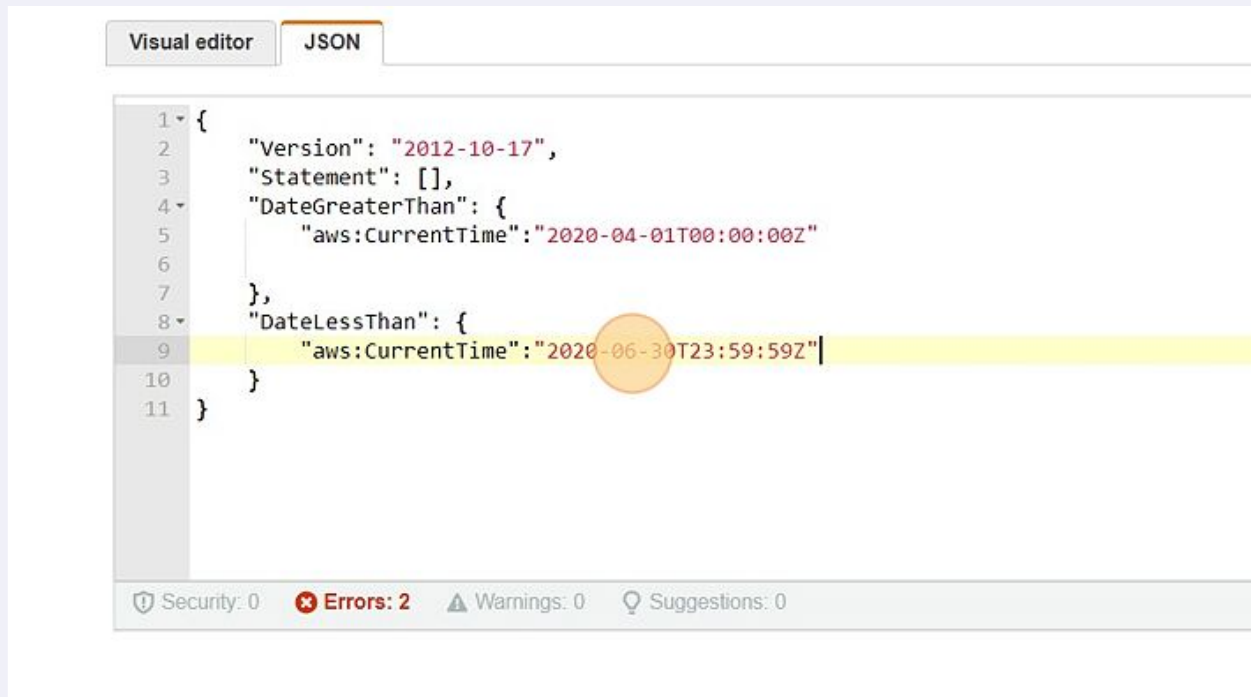
5 Click "Add inline policy"



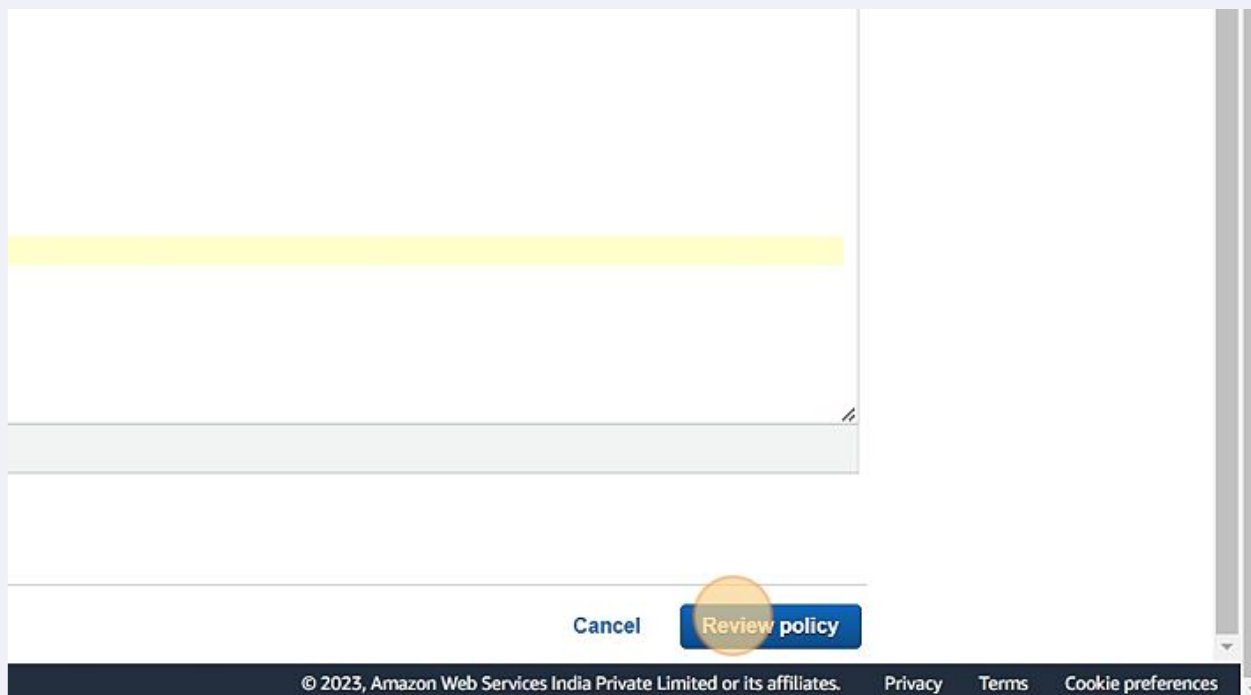
6 Click "JSON"



7 Type your custom policy.



8 Click "Review policy"



Assignment sheet for IAM

Assignment 3 :- Prepare 15 authentic MCQ questions related to IAM.

1. Which of the following is not a component of IAM?
 - a. Roles
 - b. Users
 - c. Organizational Units**
 - d. Groups

2. Which of the following is the most secure way of giving access to AWS services to applications running on Ec2 instances?
 - a. Creating Service users
 - b. Creating service groups
 - c. Roles**
 - d. Attaching policies to applications

3. Which of the following set of credentials are used to log in to AWS programmatically? (Choose two)
 - a. Username
 - b. Access Key**
 - c. Password
 - d. Secret Key**

4. IAM is which type of service?
 - a. Global Service**
 - b. Local Service

5. Group can contain:
 - a. Multiple Users**
 - b. Multiple Groups

6. User can belong to multiple groups.
 - a. True**
 - b. False

7. IAM group:
 - a. Is same as IAM users
 - b. Can be used to specify permissions for a collection of users**
 - c. Is truly an identity
 - d. All of these

8. Which of these is IAM principal?
 - a. A user

- b. A role
- c. An application
- d. **All of these**

9. Identify the wrong statement.

- a. IAM can provide shared access to the AWS account
- b. **IAM is paid service in AWS**
- c. IAM can provide granular permissions
- d. IAM supports multifactor authentication

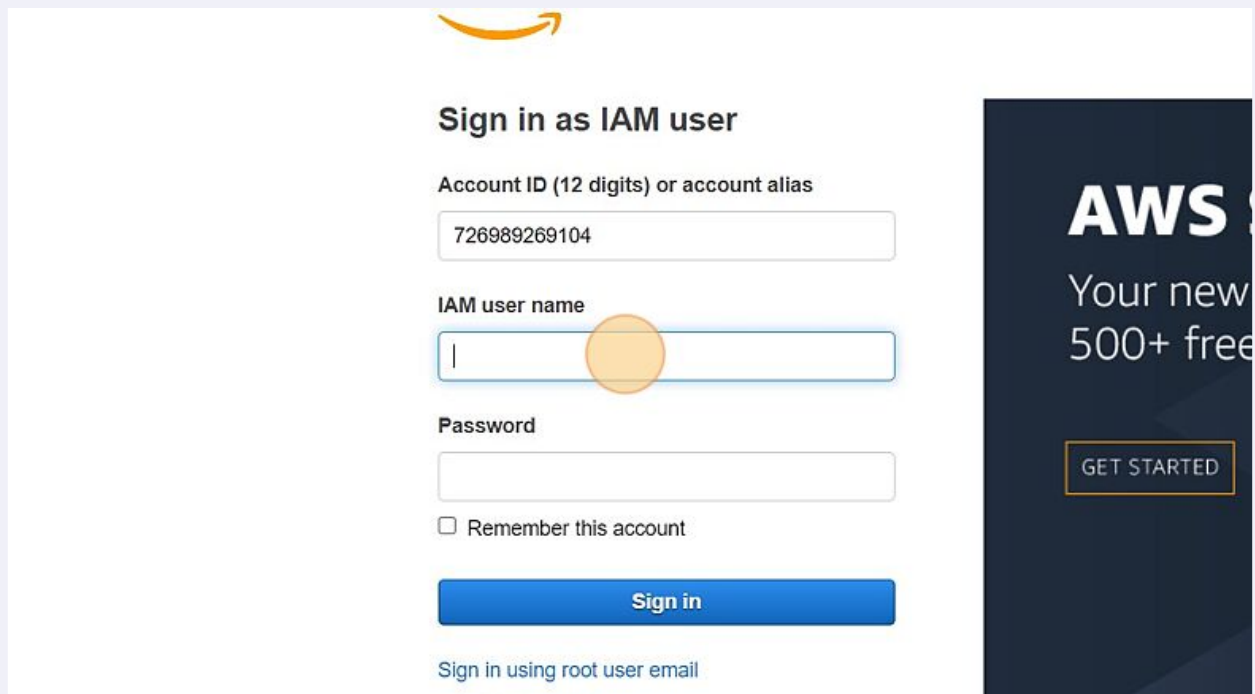
10. Names of IAM identities (users, roles, and groups):

- a. **Must be unique within the AWS account**
- b. Must be unique within the availability zone
- c. Must be unique within the region
- d. Must be unique within the AWS cloud whole

Assignment 5 iNeuron

1 Navigate to AWS Login Board.

2 Click the "IAM user name" field.



The screenshot shows the AWS IAM user sign-in page. At the top, there is an orange arrow pointing to the right. Below it, the heading "Sign in as IAM user" is displayed. The form contains three input fields: "Account ID (12 digits) or account alias" with the value "726989269104", "IAM user name" which is highlighted with a blue border and an orange circle, and "Password". Below the password field is a checkbox labeled "Remember this account". A blue "Sign in" button is at the bottom of the form. To the right of the form is a dark blue sidebar with the text "AWS", "Your new", and "500+ free", and a "GET STARTED" button. At the bottom left of the form, there is a link that says "Sign in using root user email".

3 Click "Sign in"

IAM user name

Ironman

Password

.....

☐ Remember this account

Sign in

[Sign in using root user email](#)

[Forgot password?](#)

English

[Terms of Use](#) [Privacy Policy](#) © 1996-2023, Amazon Web Services

4 Click the "Search" field.

aws Services Search [Alt+S]

Console Home [Info](#)

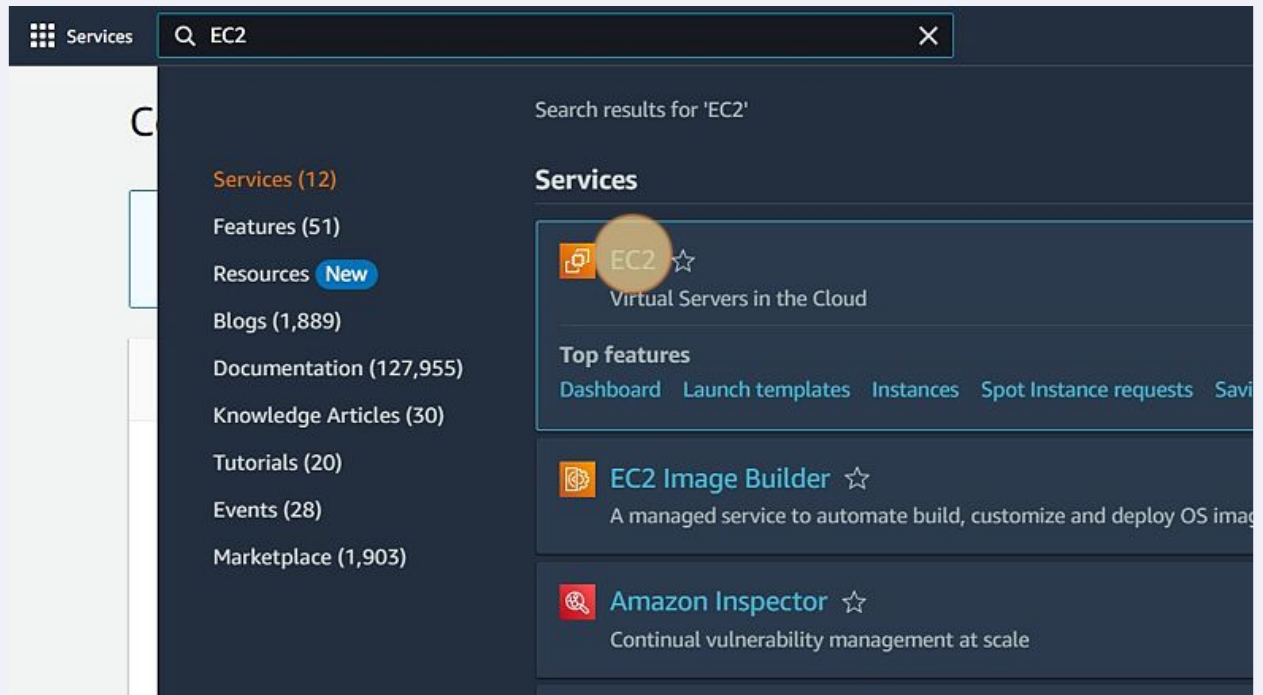
Introducing the new Managed instances, Ops summary, and Patch compliance widgets. Find them at the widget library.

Recently visited [Info](#)

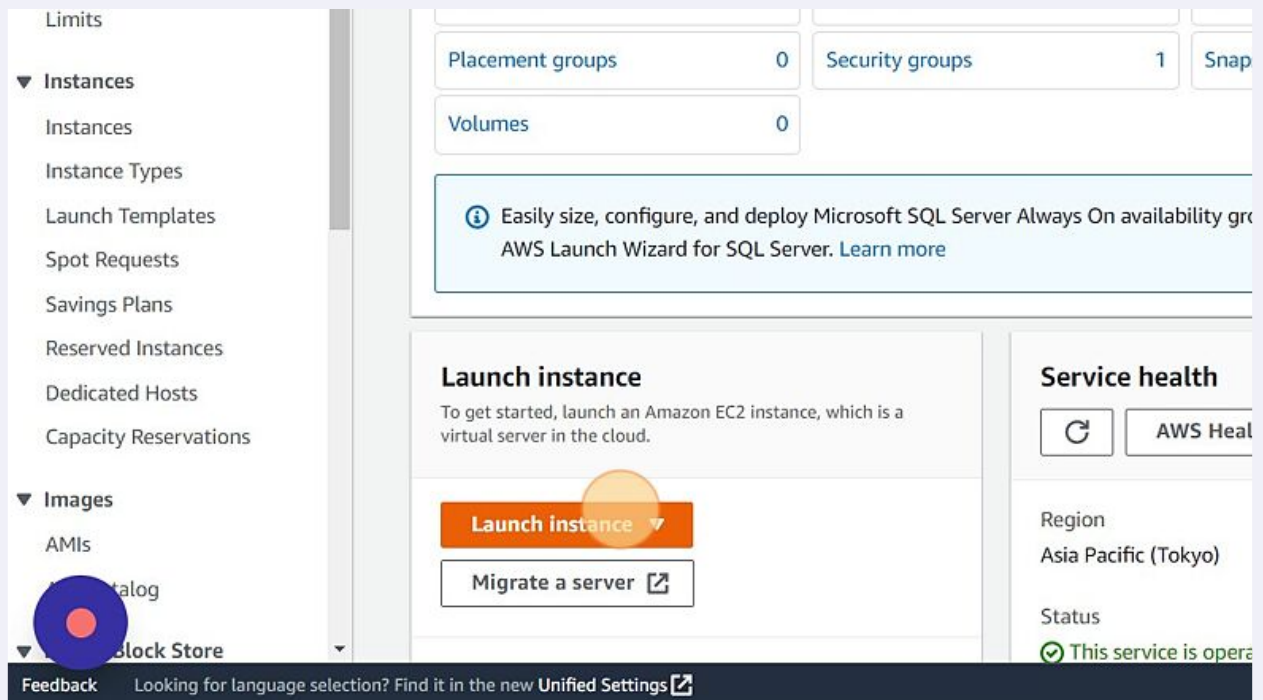
EC2

5 Type "EC2"

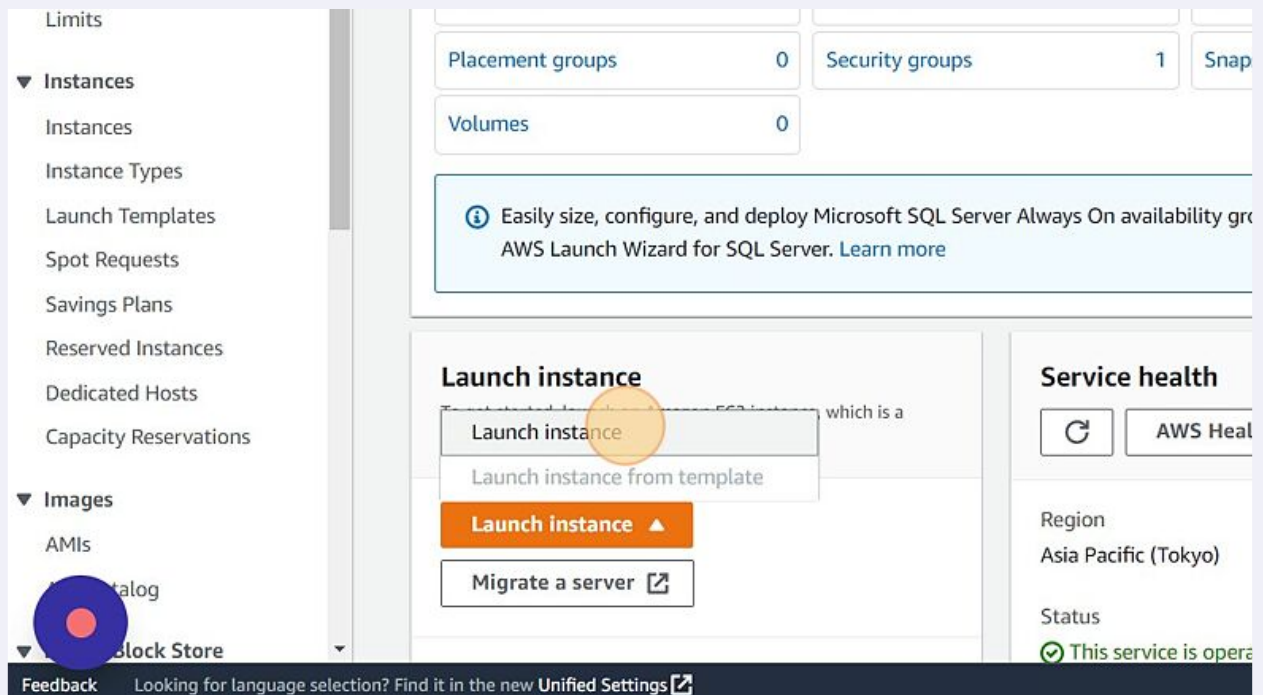
6 Click "EC2"



7 Click "Launch instance"

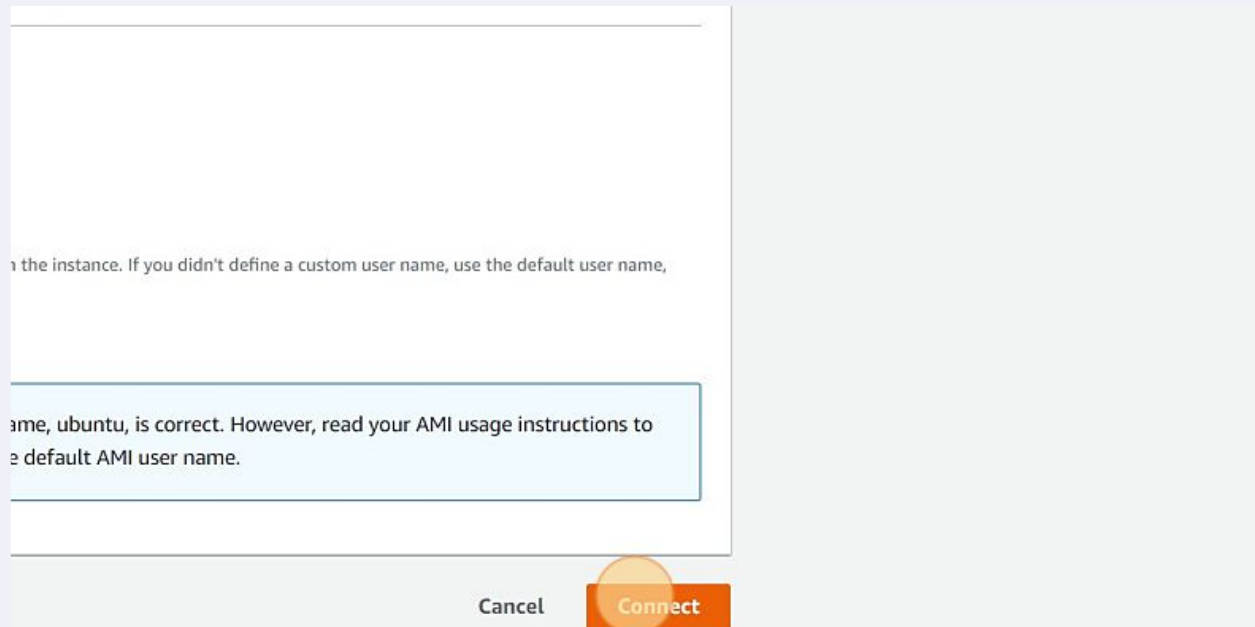


8 Click "Launch instance"



9

Click "Connect"



The screenshot shows a modal dialog box with a white background and a light gray border. At the top, there is a text input field. Below it, a message reads: "the instance. If you didn't define a custom user name, use the default user name,". A light blue information box contains the text: "ame, ubuntu, is correct. However, read your AMI usage instructions to e default AMI user name." At the bottom of the dialog, there are two buttons: a gray "Cancel" button and an orange "Connect" button with a white circular highlight.

ed Settings 

© 2023, Amazon Web Services India Private Limited or its affil