

Aim: To understand the benefits of Cloud Infrastructure and Setup AWS Cloud9 IDE, Launch AWS Cloud9 IDE and Perform Collaboration Demonstration.

The screenshot shows the 'New EC2 instance' configuration page in the AWS Cloud9 console. The page is titled 'New EC2 instance' and includes an 'Instance type' section with three options: 't2.micro (1 GiB RAM + 1 vCPU)' (selected), 't3.small (2 GiB RAM + 2 vCPU)', and 'm5.large (8 GiB RAM + 2 vCPU)'. Below this is an 'Additional instance types' section. The 'Platform' section shows 'Amazon Linux 2023' selected. The 'Timeout' section shows '30 minutes' selected. The footer includes 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates.

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New EC2 instance

Instance type Info
The memory and CPU of the EC2 instance that will be created for Cloud9 to run on.

- ☒ **t2.micro (1 GiB RAM + 1 vCPU)**
Free-tier eligible. Ideal for educational users and exploration.
- ☐ **t3.small (2 GiB RAM + 2 vCPU)**
Recommended for small web projects.
- ☐ **m5.large (8 GiB RAM + 2 vCPU)**
Recommended for production and most general-purpose development.

☐ **Additional instance types**
Explore additional instances to fit your need.

Platform Info
This will be installed on your EC2 instance. We recommend Amazon Linux 2023.

Amazon Linux 2023

Timeout
How long Cloud9 can be inactive (no user input) before auto-hibernating. This helps prevent unnecessary charges.

30 minutes

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The screenshot shows the 'Create environment' page in the AWS Cloud9 console. The page is titled 'Create environment' and includes a 'Details' section with three fields: 'Name' (WebAppIDE), 'Description - optional' (empty), and 'Environment type' (New EC2 instance). The footer includes 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates.

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For capabilities similar to AWS Cloud9, explore AWS Toolkits in your own IDE and AWS CloudShell in the AWS Management Console. [Learn more](#)

AWS Cloud9 > Environments > Create environment

Create environment

Details

Name

WebAppIDE

Limit of 60 characters, alphanumeric, and unique per user.

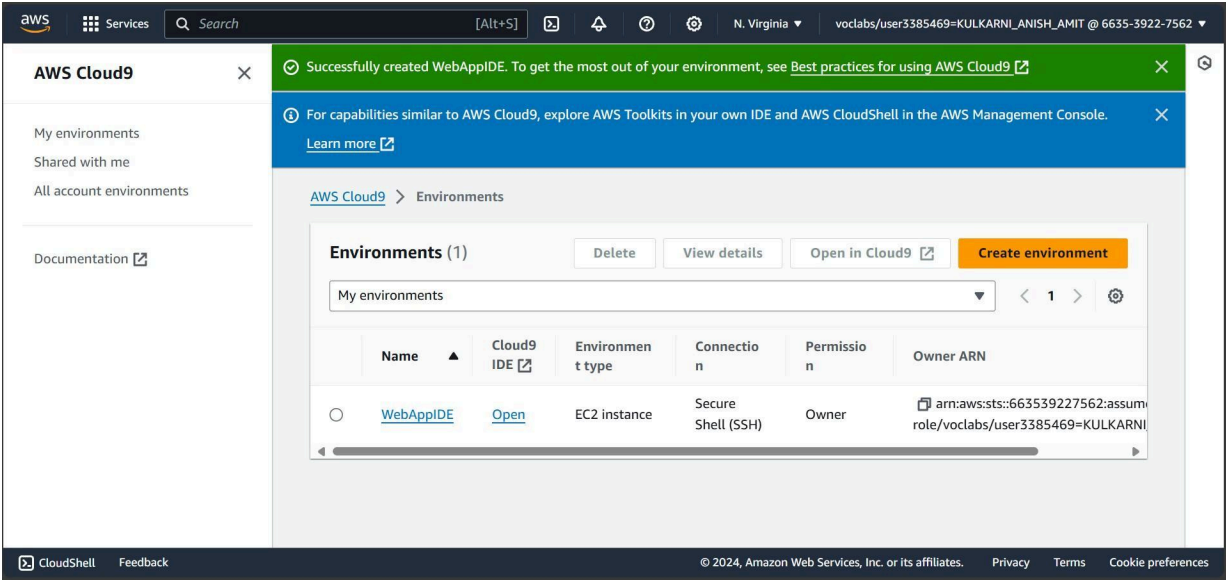
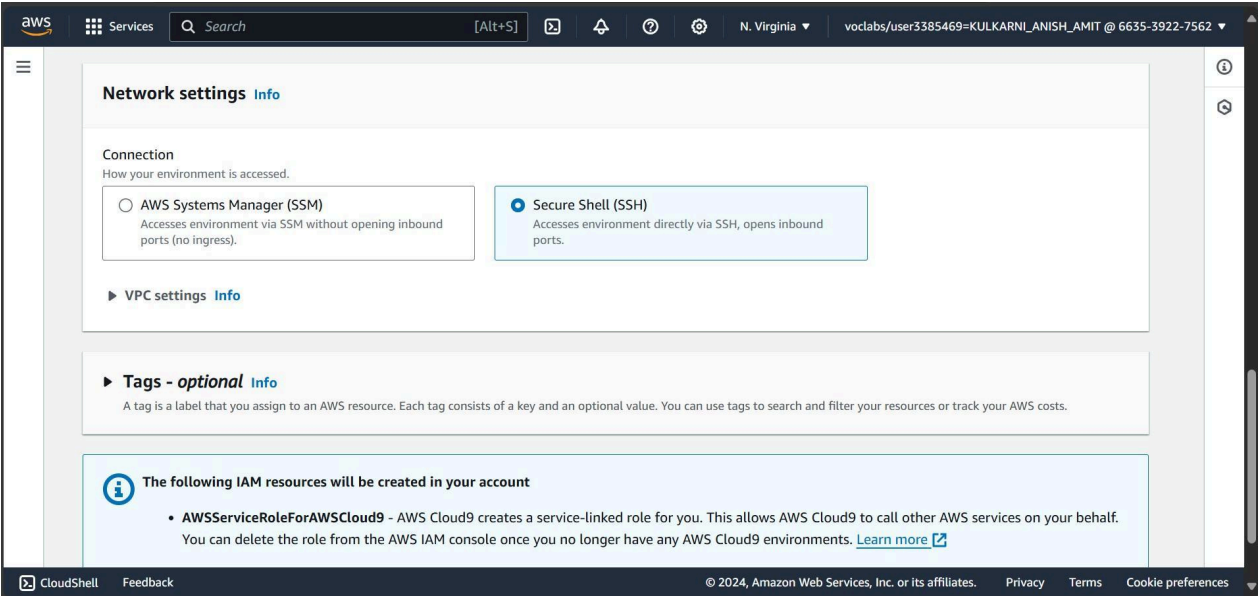
Description - optional

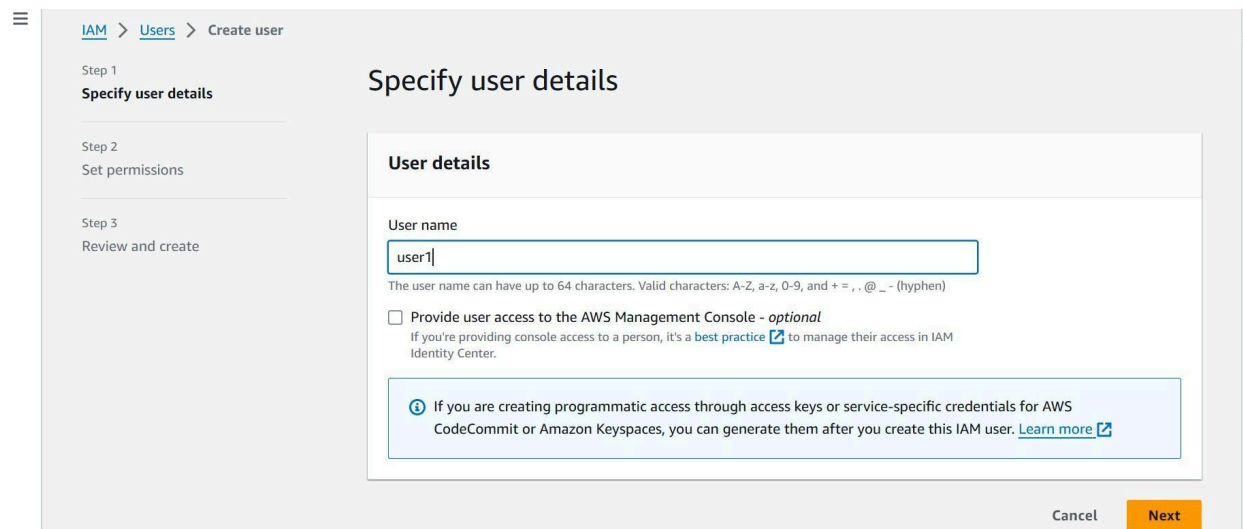
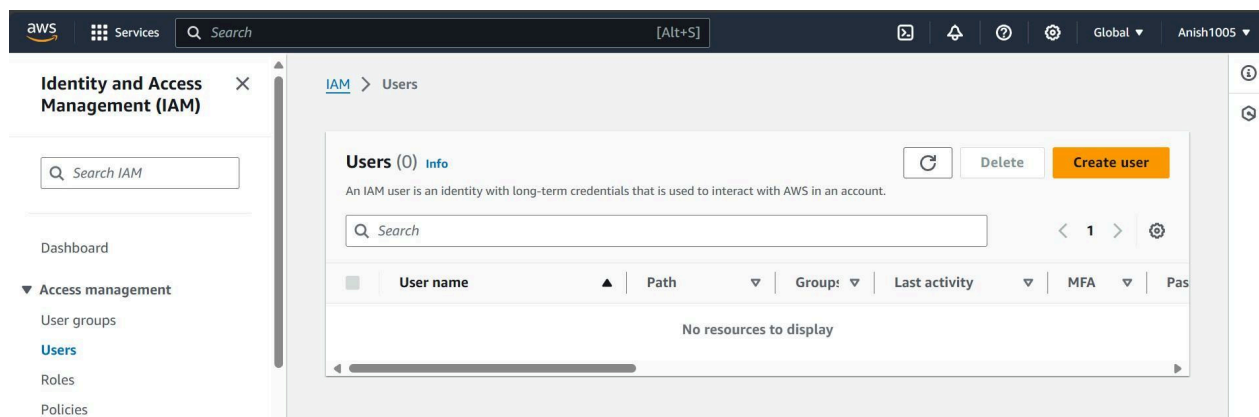
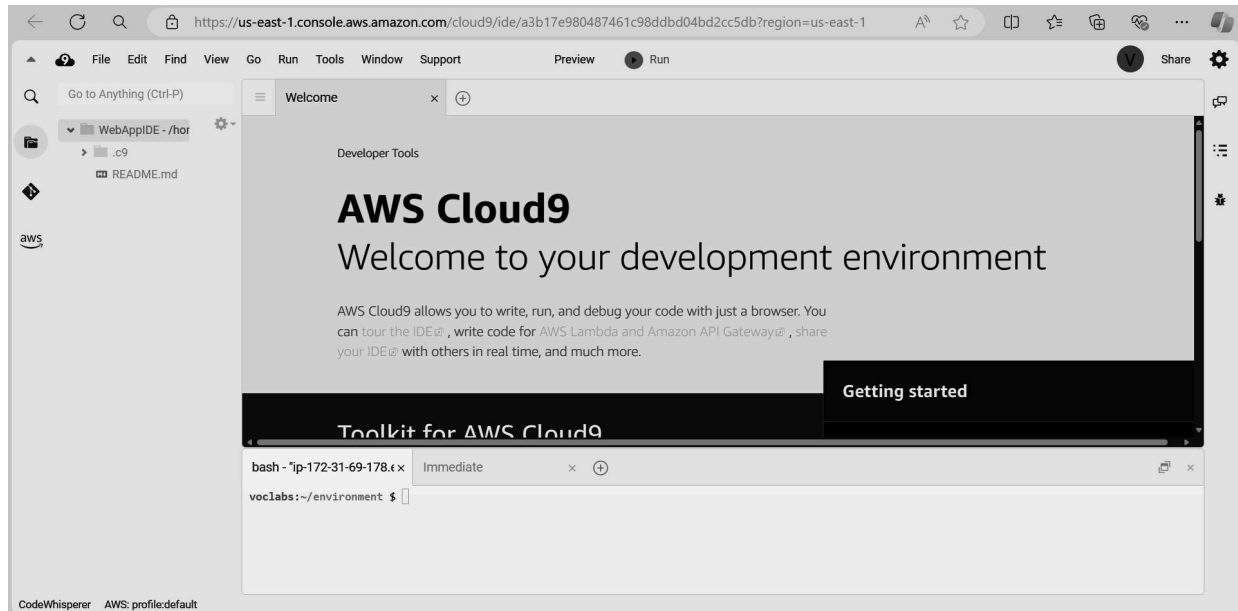
Limit 200 characters.

Environment type Info
Determines what the Cloud9 IDE will run on.

- ☒ **New EC2 instance**
- ☐ **Existing compute**

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The screenshot shows the AWS IAM console interface. The top navigation bar includes the AWS logo, 'Services', a search bar, and user information. The left sidebar shows the navigation menu with 'IAM > Users > Create user' selected. The main content area is titled 'Set permissions' and includes a sub-header 'Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)'. Below this, there are three radio button options under 'Permissions options': 'Add user to group' (selected), 'Copy permissions', and 'Attach policies directly'. A 'Get started with groups' section at the bottom provides guidance and a 'Create group' button.

Set permissions

Add user to an existing group or create a new one. Using groups is a best-practice way to manage user's permissions by job functions. [Learn more](#)

Permissions options

- ☒ **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.
- ☐ **Copy permissions**
Copy all group memberships, attached managed policies, and inline policies from an existing user.
- ☐ **Attach policies directly**
Attach a managed policy directly to a user. As a best practice, we recommend attaching policies to a group instead. Then, add the user to the appropriate group.

Get started with groups
Create a group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. [Learn more](#)

[Create group](#)

The screenshot shows the 'Create user group' dialog box. It has a title bar 'Create user group' with a close button. The main text says 'Create a user group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. [Learn more](#)'. Below this is a section for 'User group name' with a text input field containing 'group1' and a note: 'Maximum 128 characters. Use alphanumeric and '+=, @-_' characters.' The 'Permissions policies (947)' section features a search bar, a 'Filter by Type' dropdown set to 'All ty...', and a table of policies. The table has columns for 'Policy name', 'Type', 'Use...', and 'Description'. Two policies are visible: 'AdministratorAccess' and 'AdministratorAcce...'. At the bottom are 'Cancel' and 'Create user group' buttons.

Create user group

Create a user group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. [Learn more](#)

User group name
Enter a meaningful name to identify this group.

group1

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

Permissions policies (947)

Filter by Type

Search

All ty...

<input type="checkbox"/>	Policy name	Type	Use...	Description
<input type="checkbox"/>	AdministratorAccess	AWS managed ...	None	Provides full access to AWS services
<input type="checkbox"/>	AdministratorAcce...	AWS managed	None	Grants account administrative perm

[Cancel](#) [Create user group](#)

[Specify user details](#)

Step 2
[Set permissions](#)

Step 3
Review and create

REVIEW AND CREATE
Review your choices. After you create the user, you can view and download the autogenerated password, if enabled.

User details

User name
user1

Console password type
None

Require password reset
No

Permissions summary

< 1 >

Name [🔗](#)

Type

Used as

No resources

Tags - optional

Tags are key-value pairs you can add to AWS resources to help identify, organize, or search for resources. Choose any tags you want to associate with this user.

No tags associated with the resource.

Add new tag

You can add up to 50 more tags.

Cancel

Previous

Create user

✔ **User created successfully**

[View user](#)

✕

You can view and download the user's password and email instructions for signing in to the AWS Management Console.

[IAM](#) > Users

Users (1) [Info](#)

🔄

Delete

Create user

An IAM user is an identity with long-term credentials that is used to interact with AWS in an account.

🔍 Search

< 1 > ⚙️

<input type="checkbox"/>	User name	Path	Group:	Last activity	MFA	P
<input type="checkbox"/>	user1	/	0	-	-	-

User groups (1) [Info](#)

🔄

Delete

Create group

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

🔍 Search

< 1 > ⚙️

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	group1	🚩 0	🕒 Pending	5 minutes ago

Identity and Access Management (IAM)

Q Search IAM

Dashboard

▼ Access management

User groups

UsersRolesPoliciesIdentity providersAccount settings

▼ Access reports

IAM > User groups > group1

group1 Info

Delete

Summary

Edit

User group namegroup1

Creation timeAugust 04, 2024, 16:59 (UTC+05:30)

ARNarn:aws:iam::010928206130:group/group1

Users

Permissions

Access Advisor

Permissions policies (0) Info

↻

Simulate ↗

Remove

Add permissions ▼

You can attach up to 10 managed policies.

Other permission policies (1/945)

↻

You can attach up to 10 managed policies to this user group. All of the users in this group inherit the attached permissions.

Filter by Type

Q AWSCloud9

×

All types ▼

4 matches

< 1 > ⚙

	Policy name ▲	Type ▼	Used as ▼	Description
<input type="checkbox"/>	AWSCloud9Administ...	AWS managed	None	Provides administrator access to AWS ...
<input checked="" type="checkbox"/>	AWSCloud9Environ...	AWS managed	None	Provides the ability to be invited into A...
<input type="checkbox"/>	AWSCloud9SSMInsta...	AWS managed	None	This policy will be used to attach a rol...
<input type="checkbox"/>	AWSCloud9User	AWS managed	None	Provides permission to create AWS Clo...