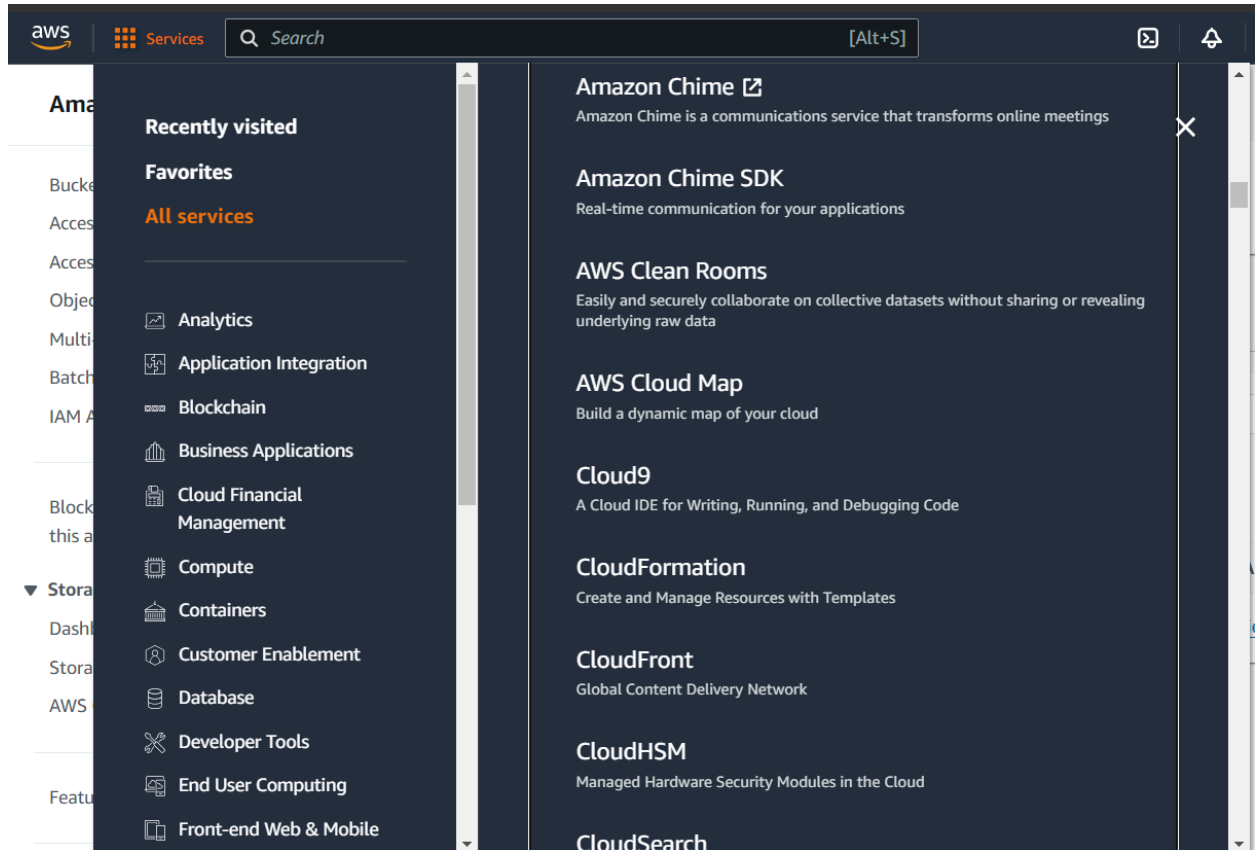


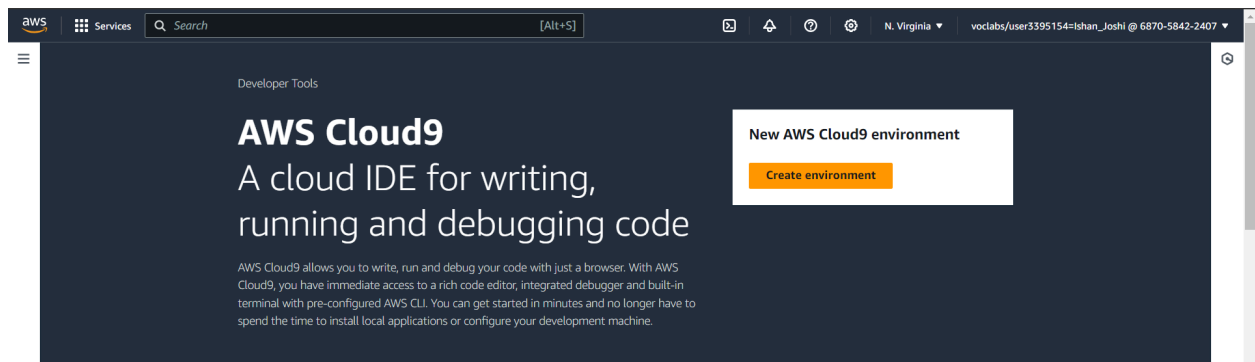
Name-Ishan Kiran Joshi Div-D15C Roll No-21 A.Y.-2024-25

Advance DevOps Lab 1b

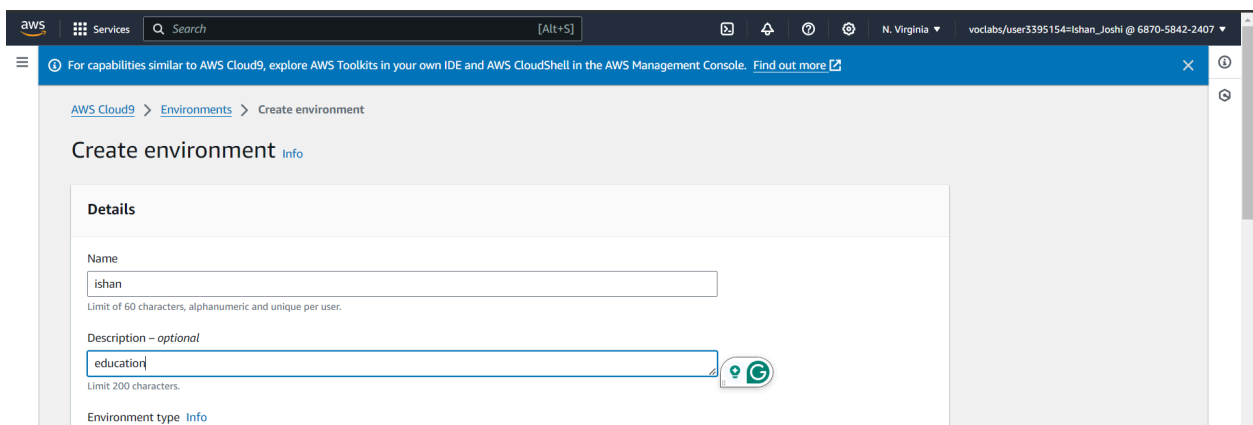
1-Open All Services Tab of AWS



2- Open Cloud9 and click on Create Environment



3-Fill up your name and details



aws Services Search [Alt+S] N. Virginia voclabs/user3395154=ishan_joshi @ 6870-5842-2407

For capabilities similar to AWS Cloud9, explore AWS Toolkits in your own IDE and AWS CloudShell in the AWS Management Console. Find out more

AWS Cloud9 > Environments > Create environment

Create environment Info

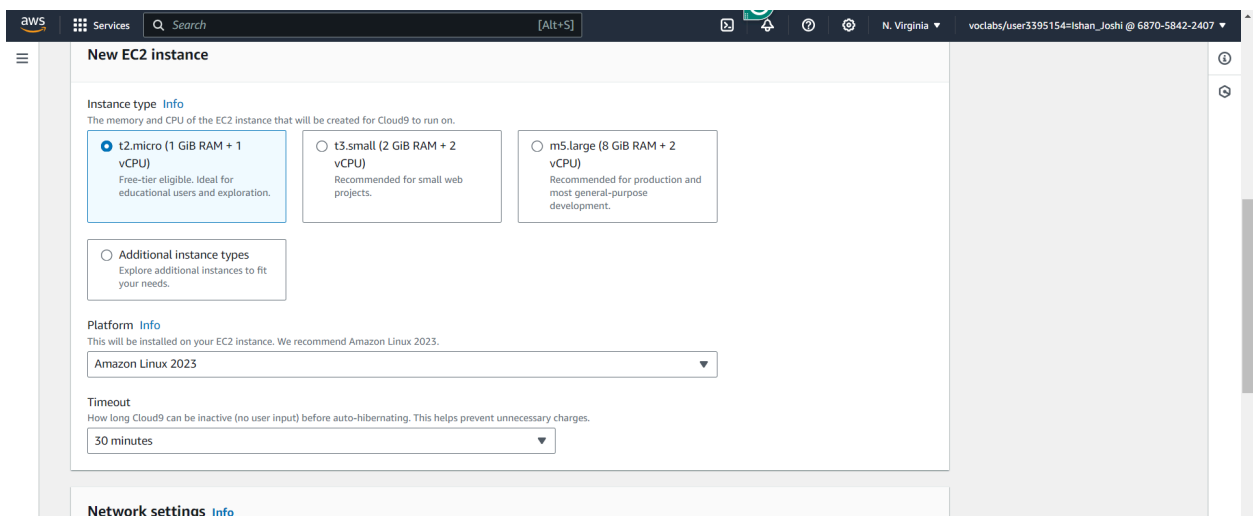
Details

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

Description – optional
education
Limit 200 characters.

Environment type Info

4-Setup a EC2 instance



aws Services Search [Alt+S] N. Virginia voclabs/user3395154=ishan_joshi @ 6870-5842-2407

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 needs.

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

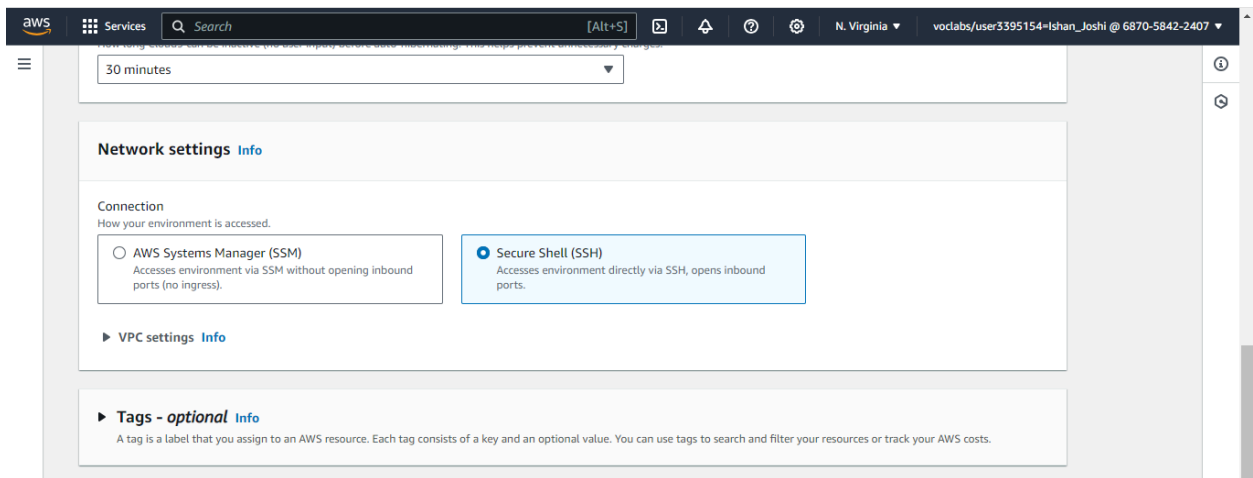
Amazon Linux 2023

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

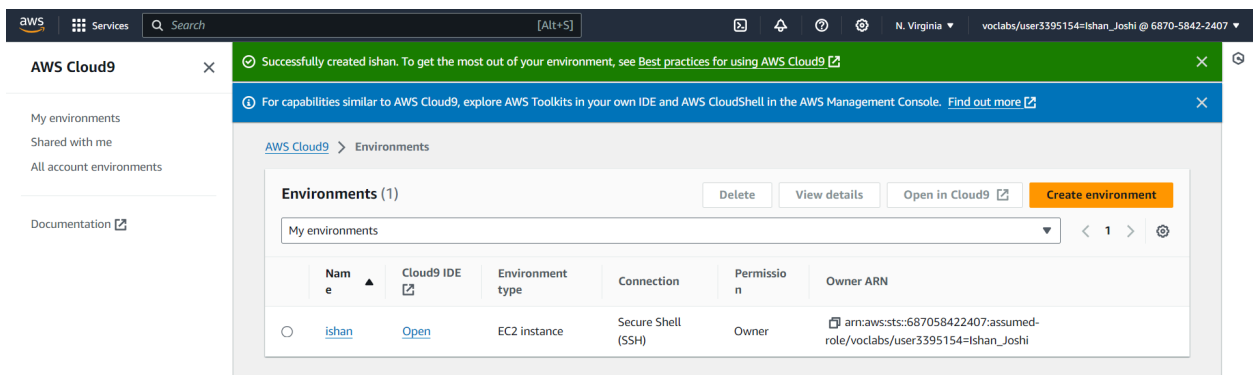
30 minutes

Network settings Info

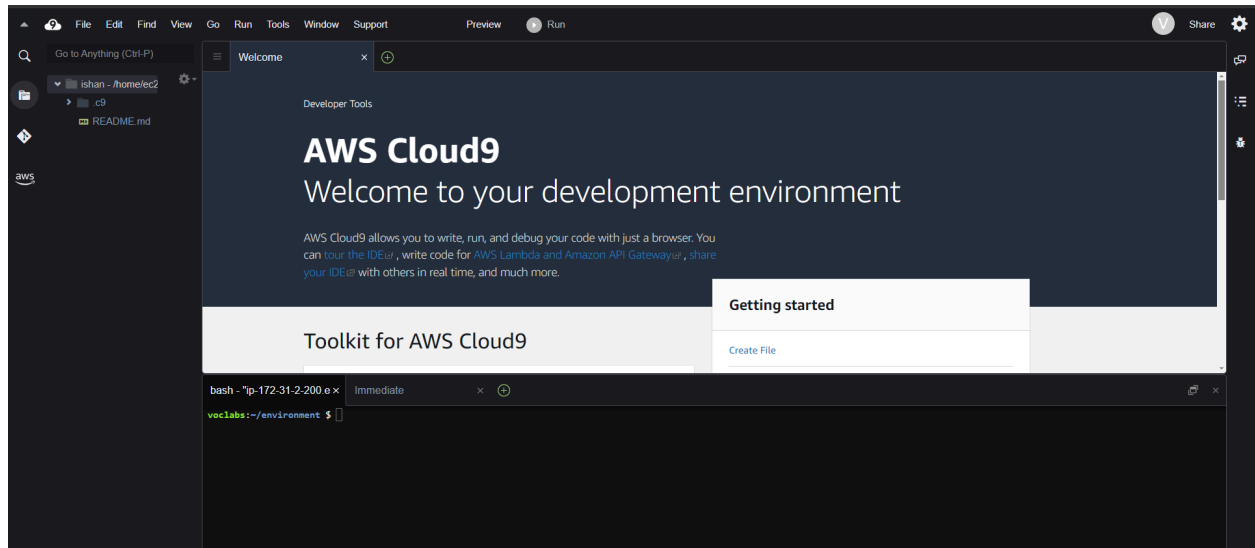
5- Setup the Network Settings



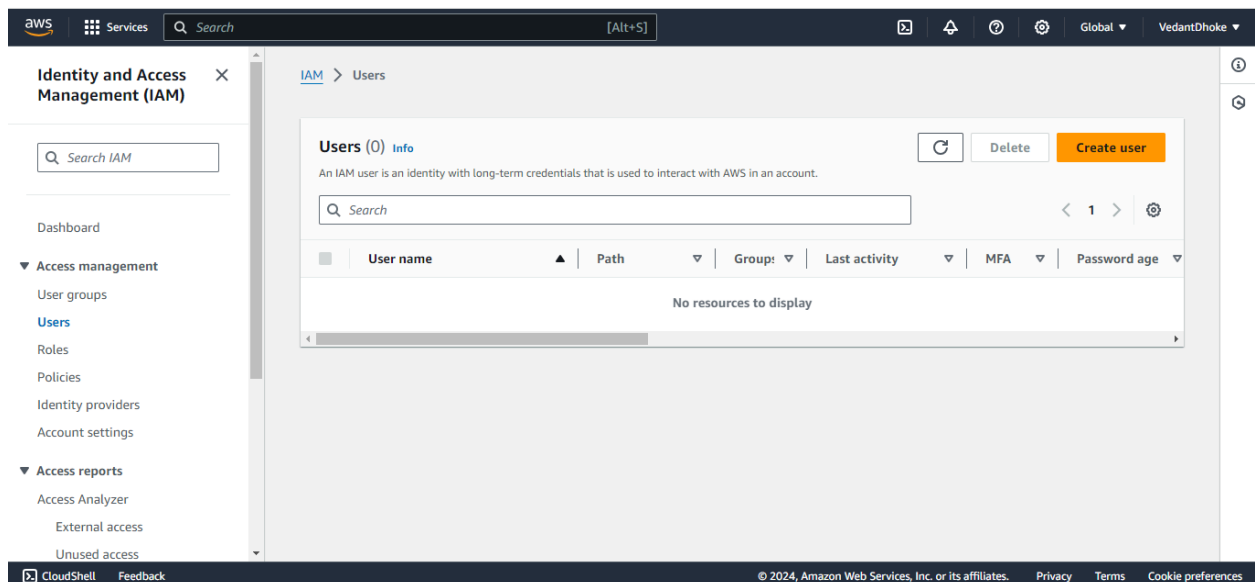
6- Cloud9 Environment is created



7-Cloud9 Environment



8- Open IAM in AWS and click on Create User



9-Specify the User Details

aws Services Search [Alt+S] Global VedantDhoke

IAM > Users > Create user

Step 1
Specify user details

Step 2
Set permissions

Step 3
Review and create

Step 4
Retrieve password

Specify user details

User details

User name

Ishan

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

☒ Provide user access to the AWS Management Console - *optional*
If you're providing console access to a person, it's a [best practice](#) to manage their access in IAM Identity Center.

Are you providing console access to a person?

User type

☐ Specify a user in Identity Center - *Recommended*
We recommend that you use Identity Center to provide console access to a person. With Identity Center, you can centrally manage user access to their AWS accounts and cloud applications.

☒ I want to create an IAM user
We recommend that you create IAM users only if you need to enable programmatic access through access keys, service-specific credentials for AWS CodeCommit or Amazon Keyspaces, or a backup credential for emergency account access.

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) = [] { } | ' "

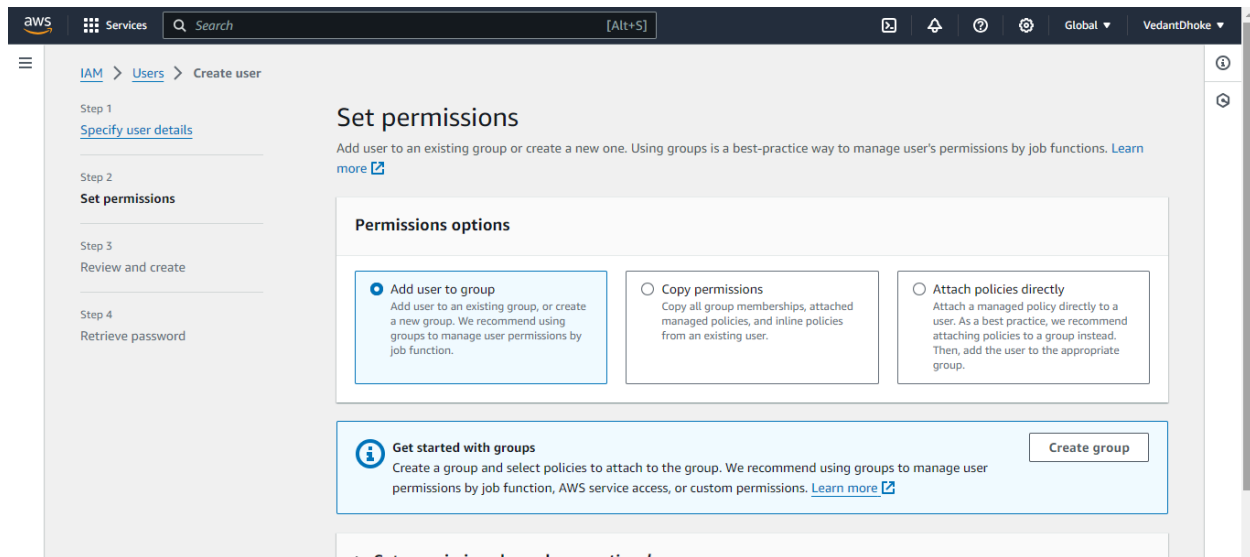
☐ Show password

☐ 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.

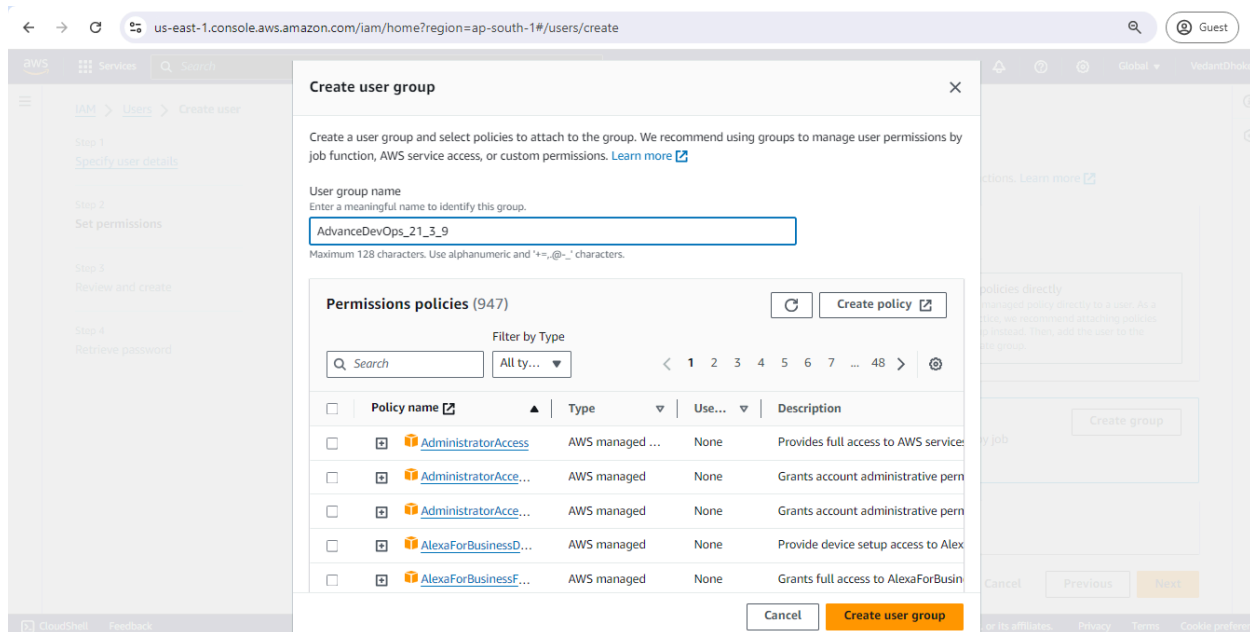
If you are creating programmatic access through access keys or service-specific credentials for AWS CodeCommit or Amazon Keyspaces, you can generate them after you create this IAM user. [Learn more](#)

Cancel Next

10-Set Permissions and click on create group



11-Add the details and Create the Group



12-Group is created

The screenshot shows the AWS IAM console interface. At the top, a green banner indicates "AdvanceDevOps_21_3_9 user group created." Below this, a sidebar on the left lists the steps: Step 2 (Set permissions), Step 3 (Review and create), and Step 4 (Retrieve password). The main content area is titled "Permissions options" and contains three radio button options: "Add user to group" (selected), "Copy permissions", and "Attach policies directly". Below these options is a section titled "User groups (3)" with a search bar and a table listing existing groups.

<input type="checkbox"/>	Group name	Users	Attached policies	Created
<input type="checkbox"/>	AdvanceDevOps_21_3_9	0	-	2024-08-07 (1 minute ago)
<input type="checkbox"/>	AdvanceDevOps_3_21_9	0	-	2024-08-07 (1 minute ago)
<input type="checkbox"/>	AdvDevOpsLab_9	0	-	2024-08-07 (1 minute ago)

13- Review the Permissions and click on next

The screenshot shows the AWS IAM console interface. At the top, a green banner indicates "AdvanceDevOps_21_3_9 user group created." Below this, a sidebar on the left lists the steps: Step 1 (Specify user details), Step 2 (Set permissions), Step 3 (Review and create), and Step 4 (Retrieve password). The main content area is titled "Review and create" and contains two sections: "User details" and "Permissions summary".

User details

User name	Console password type	Require password reset
Ishan	Custom password	No

Permissions summary

Name	Type	Used as
AdvanceDevOps_21_3_9	Group	Permissions group
AdvanceDevOps_3_21_9	Group	Permissions group
AdvDevOpsLab_9	Group	Permissions group

14-Click on Retrieve Password and download csv file

The screenshot shows the AWS IAM console interface. At the top, a green banner states "User created successfully" and provides a "View user" link. Below this, the breadcrumb navigation shows "IAM > Users > Create user". The left sidebar contains a step-by-step guide: Step 1 (Specify user details), Step 2 (Set permissions), Step 3 (Review and create), and Step 4 (Retrieve password, which is currently selected). The main content area is titled "Retrieve password" and includes a description: "You can view and download the user's password below or email users instructions for signing in to the AWS Management Console. This is the only time you can view and download this password." A section titled "Console sign-in details" contains the following information: "Console sign-in URL" with a link to "https://022499016110.signin.aws.amazon.com/console", "User name" as "Ishan", and "Console password" as a masked string with a "Show" link. To the right of this section is a button for "Email sign-in instructions". At the bottom right, there are three buttons: "Cancel", "Download .csv file", and "Return to users list".

15-Group is created but not defined

The screenshot displays the AWS IAM console's "User groups" page. The left sidebar shows the "Identity and Access Management (IAM)" section with a search bar and a list of navigation items: Dashboard, Access management (expanded), User groups (selected), Users, Roles, Policies, Identity providers, Account settings, Access reports (expanded), Access Analyzer, External access, Unused access, Analyzer settings, and Credential report. The main content area is titled "User groups (3) Info" and includes a description: "A user group is a collection of IAM users. Use groups to specify permissions for a collection of users." Below this is a search bar and a table listing the groups. The table has columns for "Group name", "Users", "Permissions", and "Creation time". There are three groups listed, all created "5 minutes ago". The first two groups are named "AdvanceDevOps_21_3_9" and the third is "AdvDevOpsLab_9". All three groups have "3" users and "Not defined" permissions. At the top right of the table, there are buttons for "Refresh", "Delete", and "Create group".

<input type="checkbox"/>	Group name	Users	Permissions	Creation time
<input type="checkbox"/>	AdvanceDevOps_21_3_9	3	⚠ Not defined	5 minutes ago
<input type="checkbox"/>	AdvanceDevOps_3_21_9	3	⚠ Not defined	5 minutes ago
<input type="checkbox"/>	AdvDevOpsLab_9	3	⚠ Not defined	5 minutes ago

16-Go to the Permissions tab

The screenshot shows the AWS IAM console interface. On the left is a navigation sidebar with sections for 'Identity and Access Management (IAM)' and 'Access management'. The main content area is titled 'AdvanceDevOps_21_3_9' and has tabs for 'Users (5)', 'Permissions', and 'Access Advisor'. The 'Permissions' tab is active, showing 'Permissions policies (0)' and a search bar. Below the search bar is a table with columns 'Policy name', 'Type', and 'Attached entities', which is currently empty with the message 'No resources to display'.

17- Attach Permission Policies to the Created Group

The screenshot shows the 'Add permissions' page in the AWS IAM console for the user group 'AdvanceDevOps_21_3_9'. The page title is 'Attach permission policies to AdvanceDevOps_21_3_9'. It displays 'Current permissions policies (0)' and 'Other permission policies (1/945)'. A search bar contains the text 'cloud9' and shows '4 matches'. Below the search bar is a table with columns: 'Policy name', 'Type', 'Used as', and 'Description'. The table lists four AWS managed policies, with 'AWSCloud9EnvironmentMember' selected (checked checkbox).

	Policy name	Type	Used as	Description
<input type="checkbox"/>	AWSCloud9Administrator	AWS managed	None	Provides administrator access to AWS ...
<input checked="" type="checkbox"/>	AWSCloud9EnvironmentMember	AWS managed	None	Provides the ability to be invited into ...
<input type="checkbox"/>	AWSCloud9SSMInstanceProfile	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...

At the bottom right, there are 'Cancel' and 'Attach policies' buttons.

18-Policies are added Successfully to the Created Group

The screenshot shows the AWS IAM console interface. On the left is a navigation sidebar with sections for 'Identity and Access Management (IAM)' and 'Access reports'. The main content area is titled 'Policies attached to this user group.' and features a green success banner at the top. Below this, a 'Summary' card displays the user group name 'AdvanceDevOps_21_3_9', its creation time 'August 07, 2024, 09:35 (UTC+05:30)', and its ARN. The 'Permissions' tab is active, showing a table of 'Permissions policies (1/1)'. The table lists one policy: 'AWSCloud9EnvironmentMember', which is 'AWS managed' and attached to 2 entities. The footer of the console shows the year '© 2024'.

Policy name	Type	Attached entities
AWSCloud9EnvironmentMember	AWS managed	2