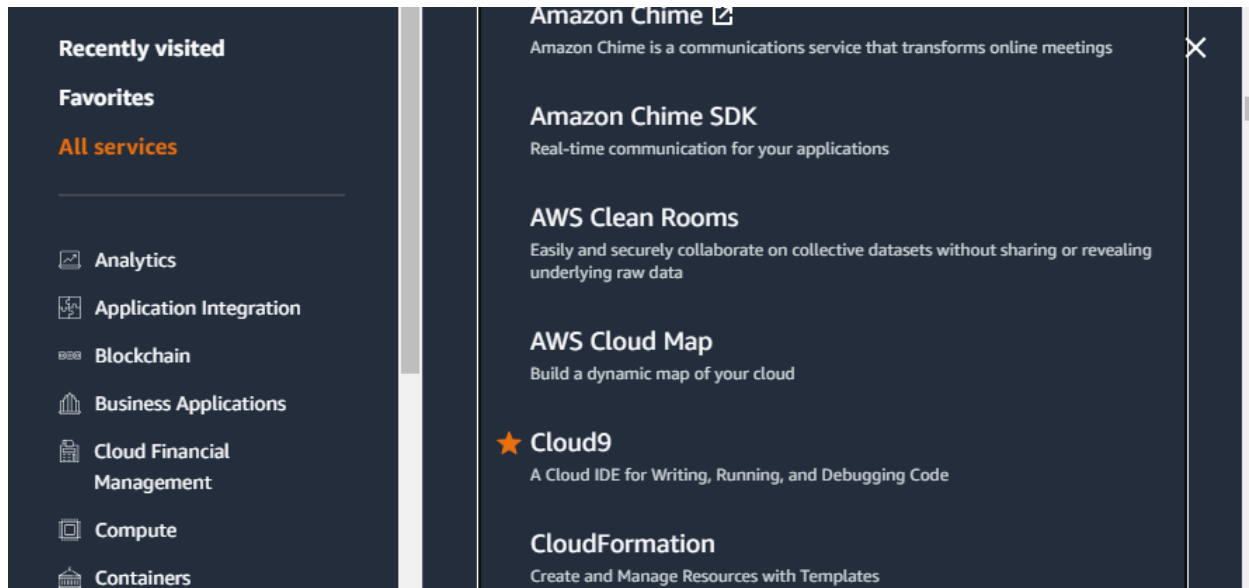


## AdvDevops Exp 1B

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

1. Login to your AWS account and navigate to the Cloud9.



## 2. We want to create an environment in Cloud9.

[AWS Cloud9](#) > [Environments](#) > [Create environment](#)

## Create environment [Info](#)

### Details

**Name**

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**  
Cloud9 creates an EC2 instance in your account. The configuration of your EC2 instance cannot be changed by Cloud9 after creation.

☐ **Existing compute**  
You have an existing instance or server that you'd like to use.

3. Configure the environment settings and click on **create** button.

Cloud9 after creation.

### 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 ▼

### Network settings

**Connection**  
How your environment is accessed.

☐ **AWS Systems Manager (SSM)**  
Accesses environment via SSM without opening inbound ports (no ingress).

☒ **Secure Shell (SSH)**  
Accesses environment directly via SSH, opens inbound ports.

► **VPC settings** [Info](#)

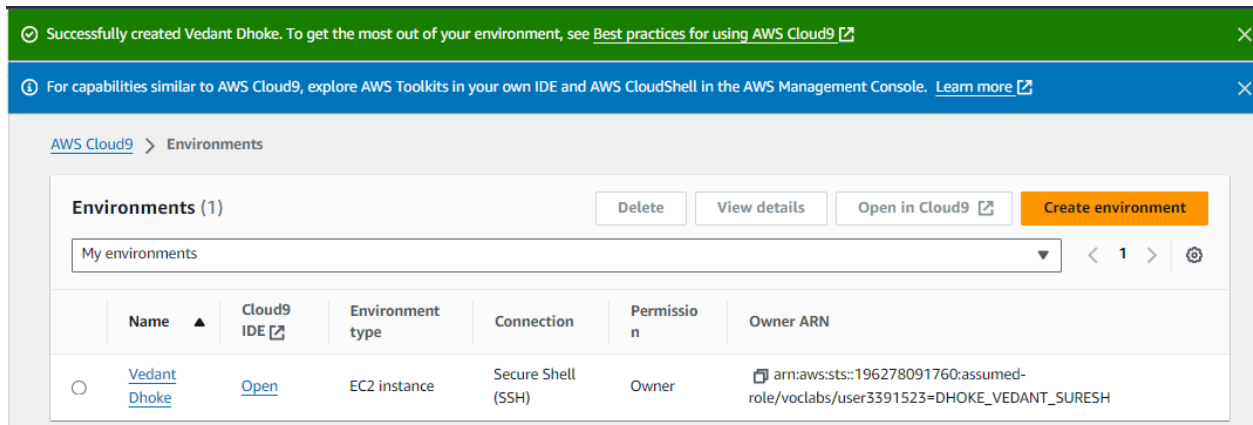
► **Tags - optional** [Info](#)  
A tag is a label that you assign to an AWS resource. Each tag consists of a key and an optional value. You can use tags to search and filter your resources or track your AWS costs.

**The following IAM resources will be created in your account**

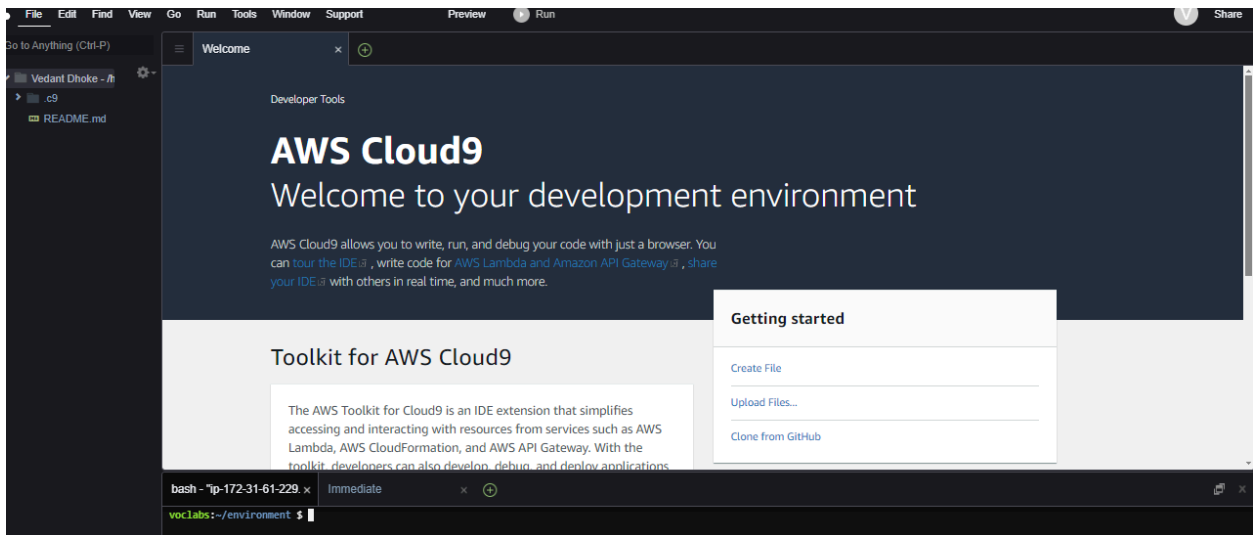
- **AWSServiceRoleForAWSCloud9** - AWS Cloud9 creates a service-linked role for you. This allows AWS Cloud9 to call other AWS services on your behalf. You can delete the role from the AWS IAM console once you no longer have any AWS Cloud9 environments. [Learn more](#)

Cancel Create

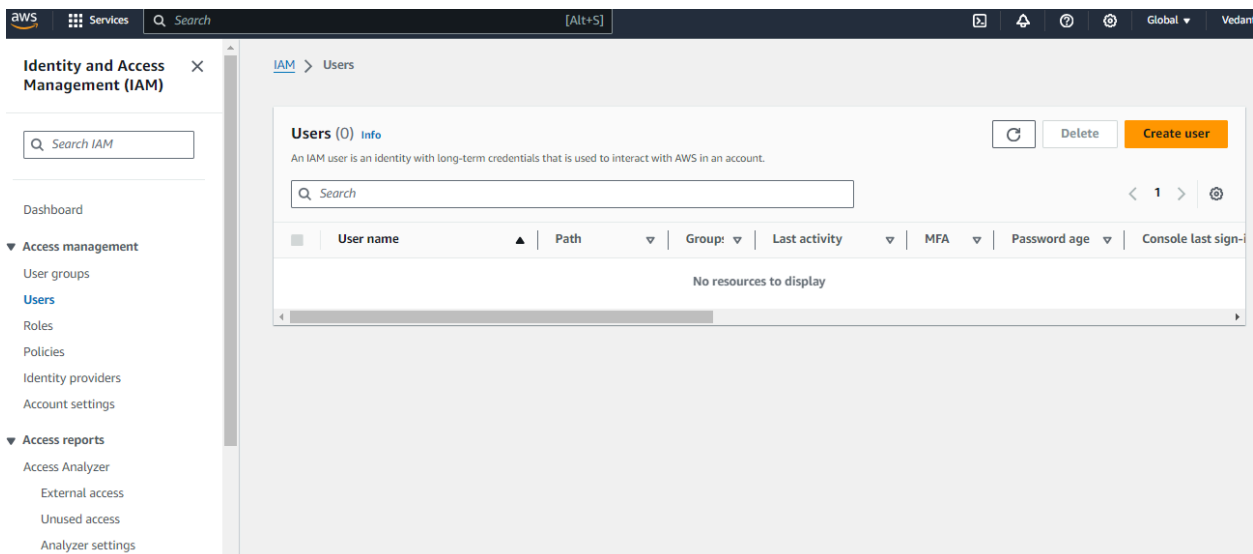
## 4. Our Enviroment is created Successfully.



## 5. It will take few minutes to create aws instance for your Cloud 9 Enviornment.



## 6. Now we want to Add users



## 7. Add user provide manual password if you want and click on Next.


**User details**

User name

Vedant

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.

\*\*\*\*\*

☐ 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](#)

CancelNext

## 8. Set the Permissions ,click on create group

### 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

► **Set permissions boundary - optional**

Cancel

Previous

Next

9. Provide group name and click on create user group.

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

Permissions policies (947)

Filter by Type

< 1 2 3 4 5 6 7 ... 48 >

<input type="checkbox"/>	Policy name	Type	Use...	Description
<input type="checkbox"/>	<a href="#">AdministratorAccess</a>	AWS managed ...	None	Provides full access to AWS services
<input type="checkbox"/>	<a href="#">AdministratorAcce...</a>	AWS managed	None	Grants account administrative perm
<input type="checkbox"/>	<a href="#">AdministratorAcce...</a>	AWS managed	None	Grants account administrative perm
<input type="checkbox"/>	<a href="#">AlexaForBusinessD...</a>	AWS managed	None	Provide device setup access to Alex
<input type="checkbox"/>	<a href="#">AlexaForBusinessF...</a>	AWS managed	None	Grants full access to AlexaForBusin

Cancel

Create user group

## 10. Navigate back to user groups

## 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.

## User groups (3)



Create group

&lt; 1 &gt;

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

## 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

Vedant

Console password type

Custom password

Require password reset

No

## Permissions summary

&lt; 1 &gt;

Name	Type	Used as
<a href="#">AdvanceDevOps_21_3_9</a>	Group	Permissions group
<a href="#">AdvanceDevOps_3_21_9</a>	Group	Permissions group
<a href="#">AdvDevOpsLab_9</a>	Group	Permissions group

## 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.



## 11. Click on create user

**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](#)

## 12. User is created Successfully

**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](#) > Create user

Step 1  
[Specify user details](#)

Step 2  
[Set permissions](#)

Step 3  
[Review and create](#)

Step 4  
**Retrieve password**

### Retrieve password

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.

**Console sign-in details** [Email sign-in instructions](#)

Console sign-in URL  
<https://022499016110.signin.aws.amazon.com/console>

User name  
Vedant

Console password  
\*\*\*\*\* [Show](#)

[Cancel](#) [Download .csv file](#) [Return to users list](#)

13.. Click on your group name which you have created and navigate to permission tab as shown:

The screenshot shows the AWS IAM console interface for the 'AdvDevOpsLab\_9' user group. The breadcrumb navigation is 'IAM > User groups > AdvDevOpsLab\_9'. The main heading is 'AdvDevOpsLab\_9' with an 'Info' link and a 'Delete' button. Below this is a 'Summary' section with an 'Edit' button. The summary table contains the following information:

Property	Value
User group name	AdvDevOpsLab_9
Creation time	August 07, 2024, 09:33 (UTC+05:30)
ARN	arn:aws:iam::022499016110:group/AdvDevOpsLab_9

Below the summary is a tabbed interface with 'Users (3)', 'Permissions' (selected), and 'Access Advisor'. The 'Permissions policies' section shows a search bar, a 'Filter by Type' dropdown set to 'All types', and buttons for 'Simulate', 'Remove', and 'Add permissions'. A table of attached policies is shown with columns for 'Policy name', 'Type', and 'Attached entities'. The table is currently empty, with a 'Loading policies' message at the bottom.

14. Search AWSCloud9 policy and click on Attach policies.

The screenshot shows the 'Other permission policies' section in the AWS IAM console. The breadcrumb navigation is 'IAM > User groups > AdvDevOpsLab\_9 > Other permission policies'. The main heading is 'Other permission policies (1/945)' with a refresh button. Below this is a search bar containing 'AWSCloud9' and a 'Filter by Type' dropdown set to 'All types'. The search results show 4 matches. The table of policies is as follows:

Policy name	Type	Used as	Description
<input type="checkbox"/> <a href="#">AWSCloud9Administrator</a>	AWS managed	None	Provides administrator access to AWS Cloud...
<input checked="" type="checkbox"/> <a href="#">AWSCloud9EnvironmentMember</a>	AWS managed	None	Provides the ability to be invited into AW...
<input type="checkbox"/> <a href="#">AWSCloud9SSMInstanceProfile</a>	AWS managed	None	This policy will be used to attach a role o...
<input type="checkbox"/> <a href="#">AWSCloud9User</a>	AWS managed	None	Provides permission to create AWS Cloud...

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

NAME: VEDANT DHOKE

CLASS/ROLL NO: D15C/9

15. We can see that Policy is attached Successfully.

Policies attached to this user group.

## AdvDevOpsLab\_9

[Info](#)

Delete

Summary

Edit

User group name

AdvDevOpsLab\_9

Creation time

August 07, 2024, 09:33 (UTC+05:30)

ARN

arn:aws:iam::022499016110:group/AdvDevOpsLab\_9

Users (3)

Permissions

Access Advisor

Permissions policies (1)

Info

Refresh

Simulate

Remove

Add permissions

Search

Filter by Type

All types

<

1

>

Settings

<input type="checkbox"/>	Policy name	Type	Attached entities
<input type="checkbox"/>	<a href="#">AWSCloud9EnvironmentMember</a>	AWS managed	1