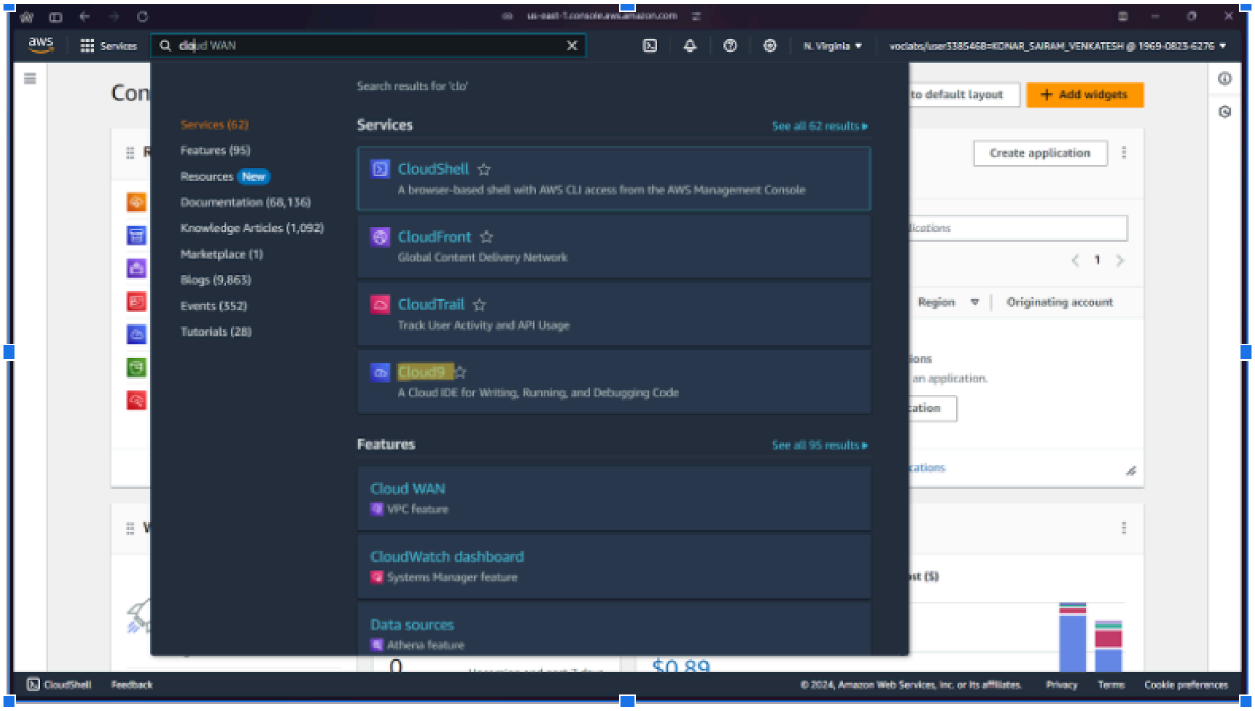
Sairam Konar **D15C** **27** **2024-25**

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

Steps:

Step 1: Set up Cloud9 environment.

1) Search Cloud9 in the services tab and open it


cloud WAN
Search results for 'clo'
Services (62)
Features (95)
Resources New
Documentation (68,136)
Knowledge Articles (1,092)
Marketplace (1)
Blogs (9,863)
Events (352)
Tutorials (28)
Services
See all 62 results
Features
See all 95 results
N. Virginia
Add widgets
Create application
CloudShell
Feedback

CloudShell — A browser-based shell with AWS CLI access from the AWS Management Console

CloudFront — Global Content Delivery Network

CloudTrail — Track User Activity and API Usage

Cloud9 — A Cloud IDE for Writing, Running, and Debugging Code

Cloud WAN — VPC feature

CloudWatch dashboard — Systems Manager feature

Data sources — Athena feature

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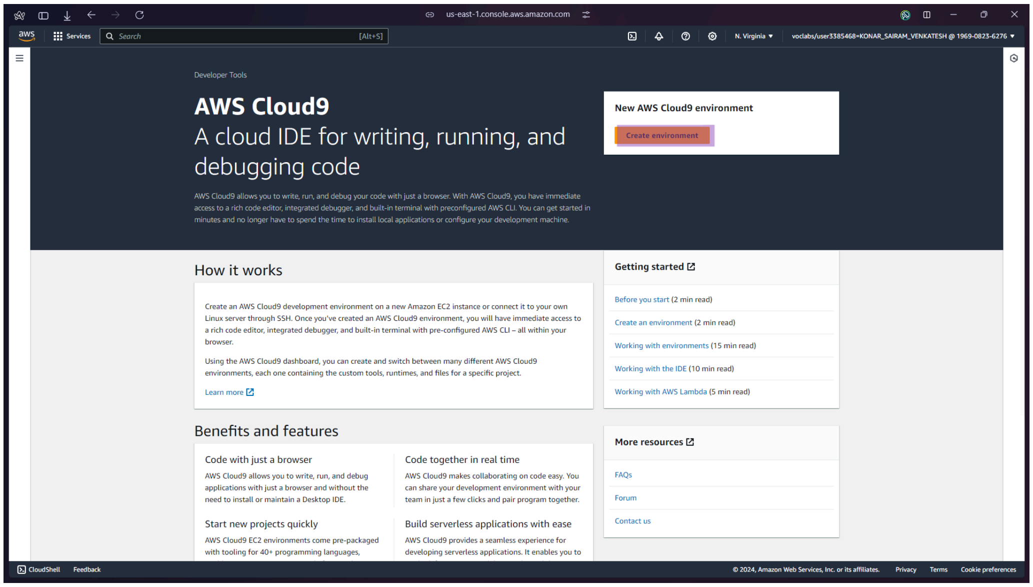
2) Click on Create Environment


us-east-1.console.aws.amazon.com
Services
Search
[Alt+S]
N. Virginia
voclabs/user3385468=KONAR_SAIRAM_VENKATESH @ 1969-0823-6276
Create environment
CloudShell
Feedback
Privacy
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Developer Tools

AWS Cloud9

A cloud IDE for writing, running, and debugging code

AWS Cloud9 allows you to write, run, and debug your code with just a browser. With AWS Cloud9, you have immediate access to a rich code editor, integrated debugger, and built-in terminal with preconfigured AWS CLI. You can get started in minutes and no longer have to spend the time to install local applications or configure your development machine.

New AWS Cloud9 environment

How it works

Create an AWS Cloud9 development environment on a new Amazon EC2 instance or connect it to your own Linux server through SSH. Once you've created an AWS Cloud9 environment, you will have immediate access to a rich code editor, integrated debugger, and built-in terminal with pre-configured AWS CLI – all within your browser.

Using the AWS Cloud9 dashboard, you can create and switch between many different AWS Cloud9 environments, each one containing the custom tools, runtimes, and files for a specific project.

Learn more

Getting started

Before you start (2 min read)
Create an environment (2 min read)
Working with environments (15 min read)
Working with the IDE (10 min read)
Working with AWS Lambda (5 min read)

Benefits and features

Code with just a browser
AWS Cloud9 allows you to write, run, and debug applications with just a browser and without the need to install or maintain a Desktop IDE.

Code together in real time
AWS Cloud9 makes collaborating on code easy. You can share your development environment with your team in just a few clicks and pair program together.

Start new projects quickly
AWS Cloud9 EC2 environments come pre-packaged with tooling for 40+ programming languages,

Build serverless applications with ease
AWS Cloud9 provides a seamless experience for developing serverless applications. It enables you to

More resources

FAQs
Forum
Contact us

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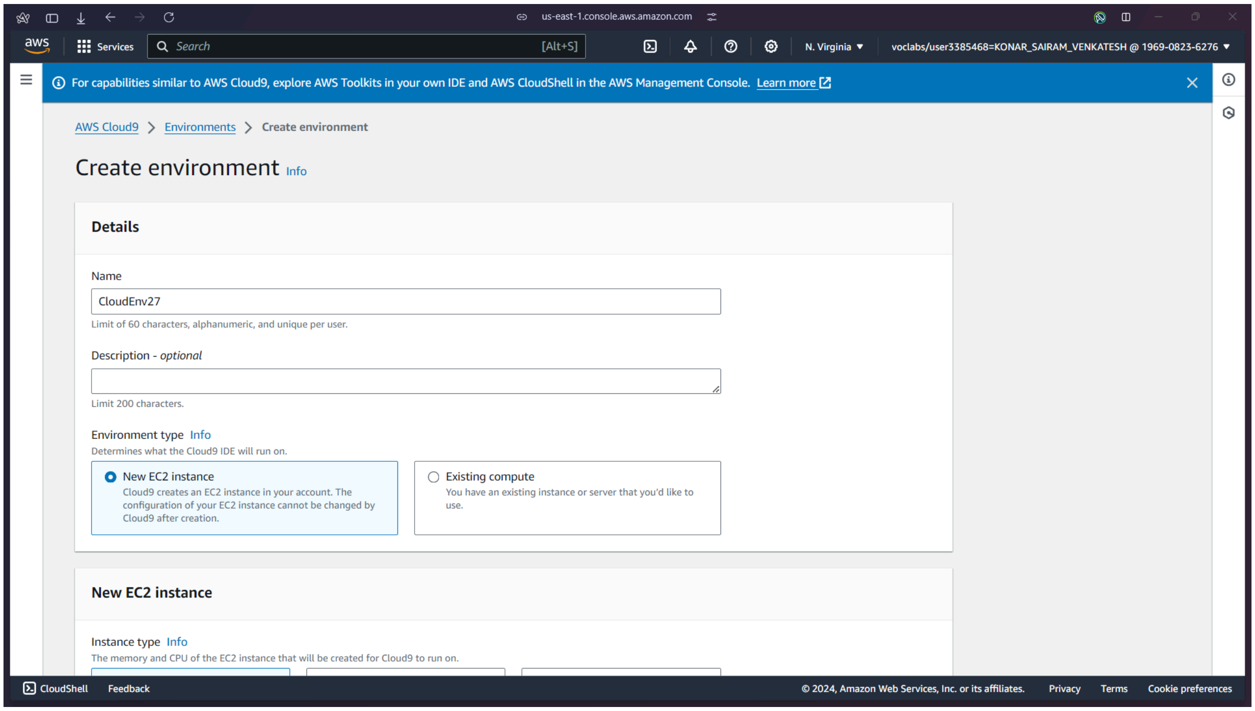
3) Give a name to your Cloud9 Environment. You can add a description if needed.


us-east-1.console.aws.amazon.com
aws
Services
Search
[Alt+S]
N. Virginia ▾
voclabs/user3385468=KONAR_SAIRAM_VENKATESH @ 1969-0823-6276 ▾
CloudShell
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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 Info

Details

Name

CloudEnv27

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.

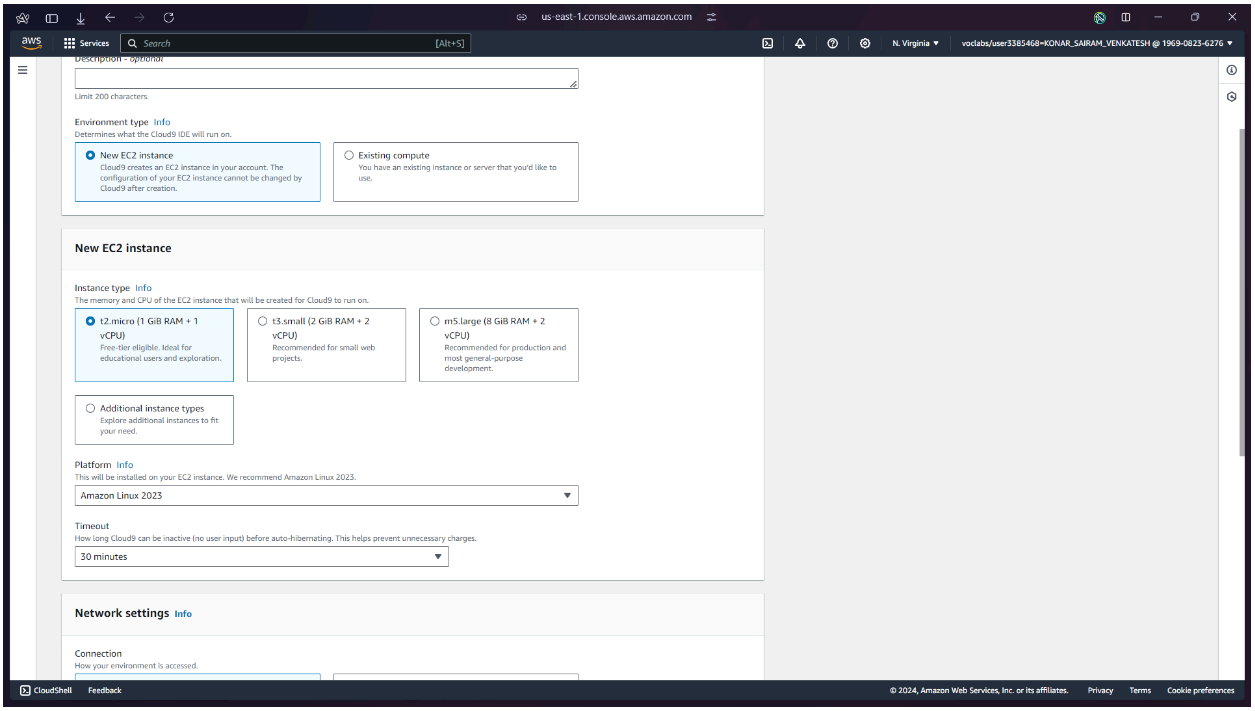
- ● New EC2 instance — Cloud9 creates an EC2 instance in your account. The configuration of your EC2 instance cannot be changed by Cloud9 after creation.
- ○ Existing compute — You have an existing instance or server that you'd like to use.

New EC2 instance

Instance type Info

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

4) Select the option new EC2 instance if you do not have one ready for the environment. Give the specifications of that EC2 instance ahead.


us-east-1.console.aws.amazon.com
aws
Services
Search
[Alt+S]
N. Virginia ▾
voclabs/user3385468=KONAR_SAIRAM_VENKATESH @ 1969-0823-6276 ▾
CloudShell
Feedback
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Cookie preferences

Description - *optional*

Limit 200 characters.

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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.

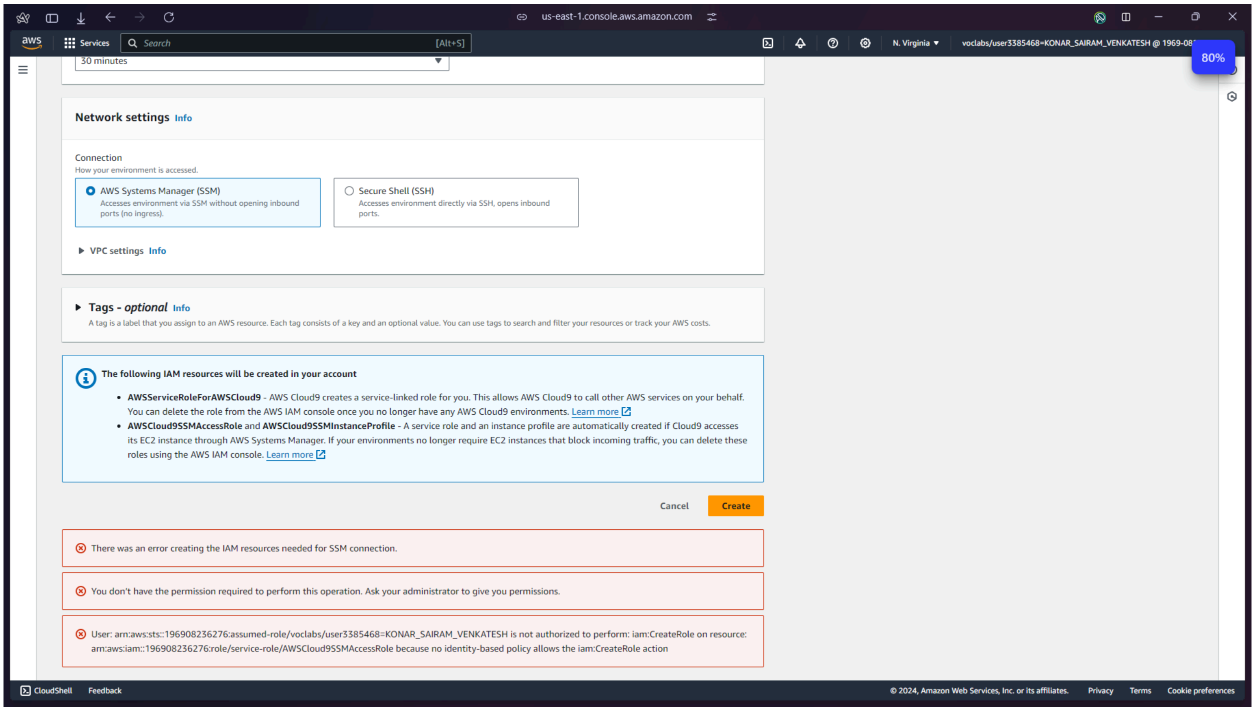
30 minutes

Network settings Info

Connection

How your environment is accessed.

5) On the AWS Academy account, if we select AWS System Manager (SSM) in Network settings, it gives an error as the account does not have permissions to use the setting. So we select Secure Shell (SSH). After that click on Create.



Timeout: 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.

Tags - *optional*
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.

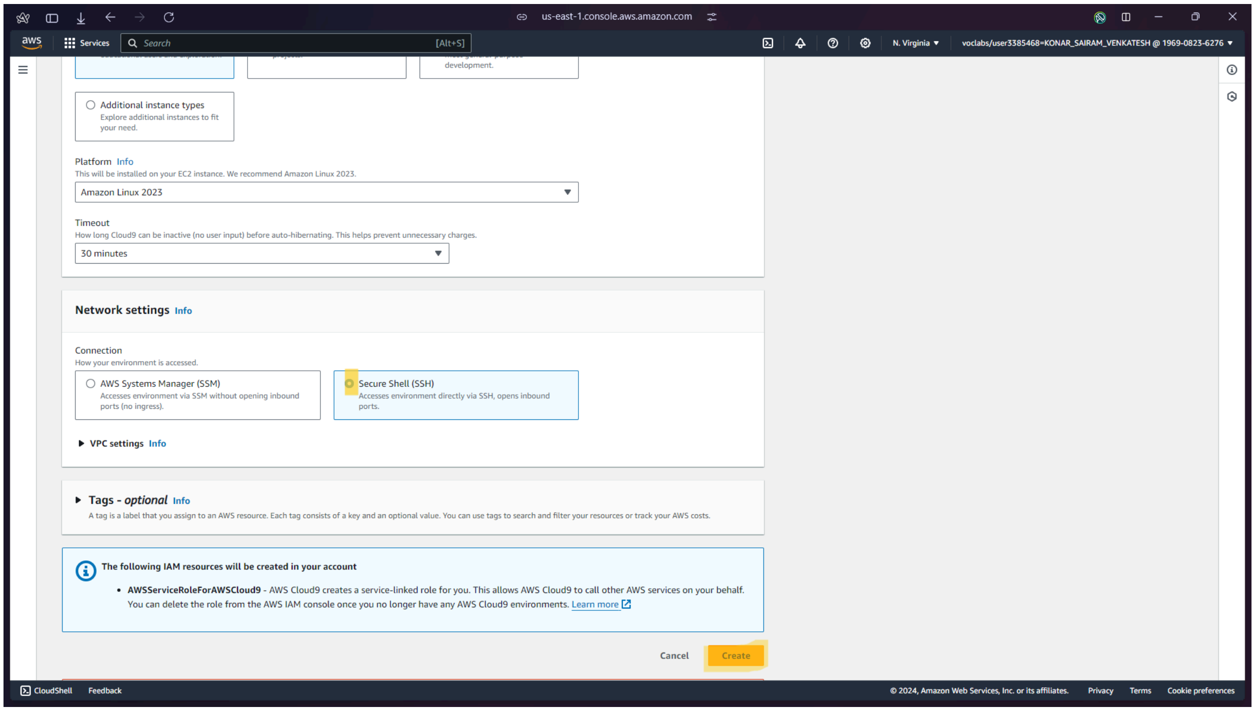
The following IAM resources will be created in your account

- **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
- **AWSCloud9SSMAccessRole** and **AWSCloud9SSMInstanceProfile** - A service role and an instance profile are automatically created if Cloud9 accesses its EC2 instance through AWS Systems Manager. If your environments no longer require EC2 instances that block incoming traffic, you can delete these roles using the AWS IAM console. Learn more

There was an error creating the IAM resources needed for SSM connection.

You don't have the permission required to perform this operation. Ask your administrator to give you permissions.

User: arn:aws:sts::196908236276:assumed-role/voclabs/user3385468=KONAR_SAIRAM_VENKATESH is not authorized to perform: iam:CreateRole on resource: arn:aws:iam::196908236276:role/service-role/AWSCloud9SSMAccessRole because no identity-based policy allows the iam:CreateRole action



○ Additional instance types — Explore additional instances to fit your need.

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

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

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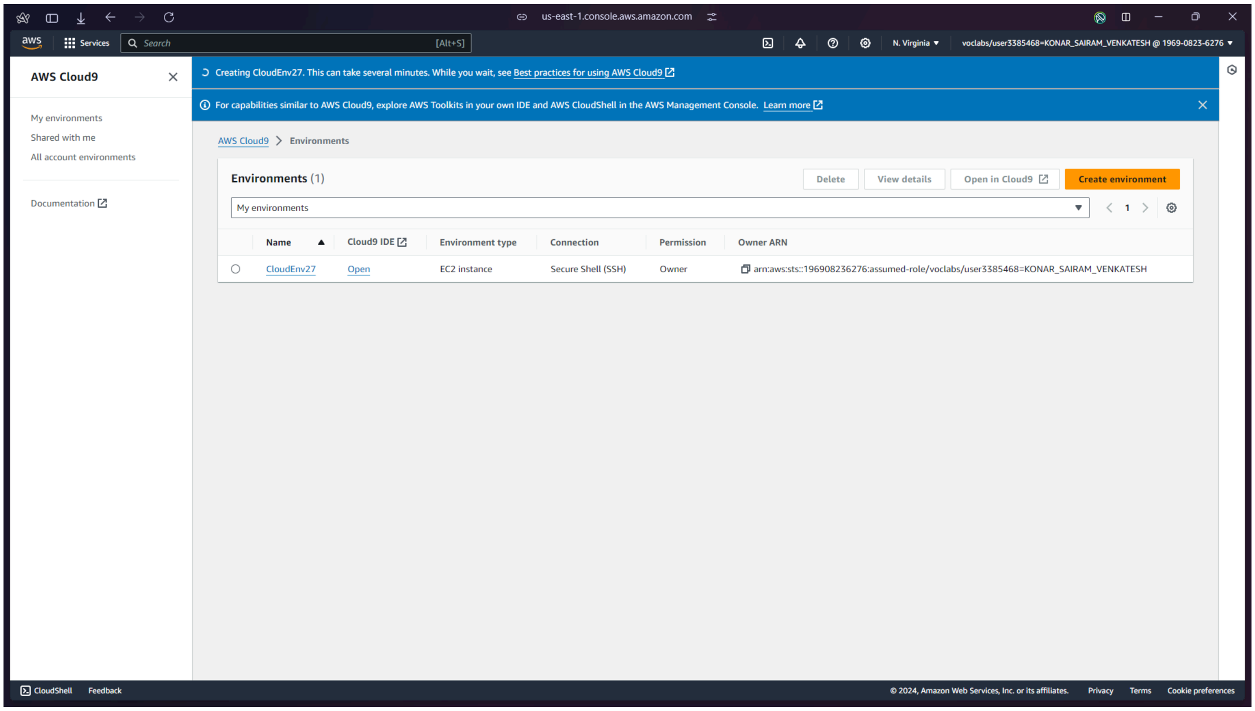
6) The environment is being created.


us-east-1.console.aws.amazon.com
aws
Services
Search [Alt+S]
N. Virginia ▼
voclabs/user3385468=KONAR_SAIRAM_VENKATESH @ 1969-0823-6276 ▼
AWS Cloud9
My environments
Shared with me
All account environments
Documentation
AWS Cloud9 > Environments
Delete
View details
Open in Cloud9
Create environment
My environments
1
CloudShell
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Creating CloudEnv27. This can take several minutes. While you wait, see Best practices for using AWS Cloud9

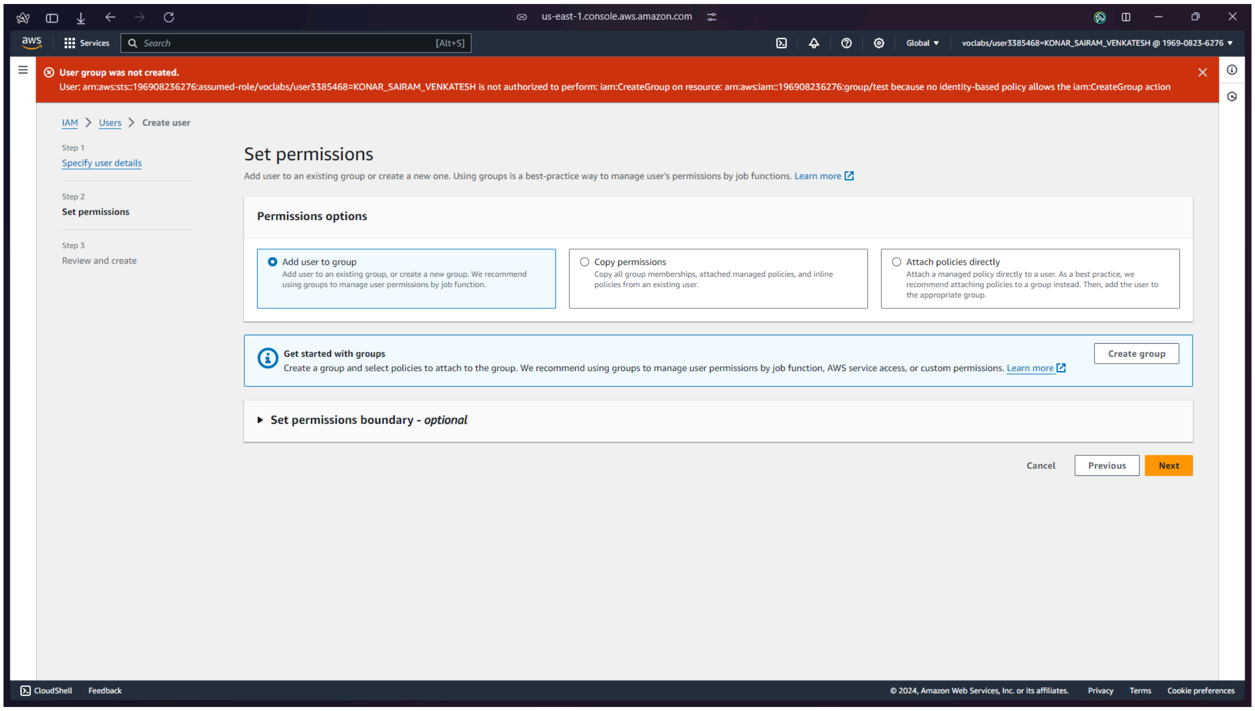
For capabilities similar to AWS Cloud9, explore AWS Toolkits in your own IDE and AWS CloudShell in the AWS Management Console. Learn more

Environments (1)

	Name	Cloud9 IDE	Environment type	Connection	Permission	Owner ARN
○	CloudEnv27	Open	EC2 instance	Secure Shell (SSH)	Owner	arn:aws:sts::196908236276:assumed-role/voclabs/user3385468=KONAR_SAIRAM_VENKATESH

Step 2: Creating IAM user.

When we go to add user to a group, the AWS Academy account throws an error as we do not have the permissions to create a group. So we have to use our personal AWS account for this part.


us-east-1.console.aws.amazon.com
aws
Services
Search [Alt+S]
Global ▼
voclabs/user3385468=KONAR_SAIRAM_VENKATESH @ 1969-0823-6276 ▼
IAM > Users > Create user
Step 1
Specify user details
Step 2
Set permissions
Step 3
Review and create
Create group
Cancel
Previous
Next
CloudShell
Feedback
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User group was not created.
User: arn:aws:sts::196908236276:assumed-role/voclabs/user3385468=KONAR_SAIRAM_VENKATESH is not authorized to perform: iam:CreateGroup on resource: arn:aws:iam::196908236276:group/test because no identity-based policy allows the iam:CreateGroup action

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.

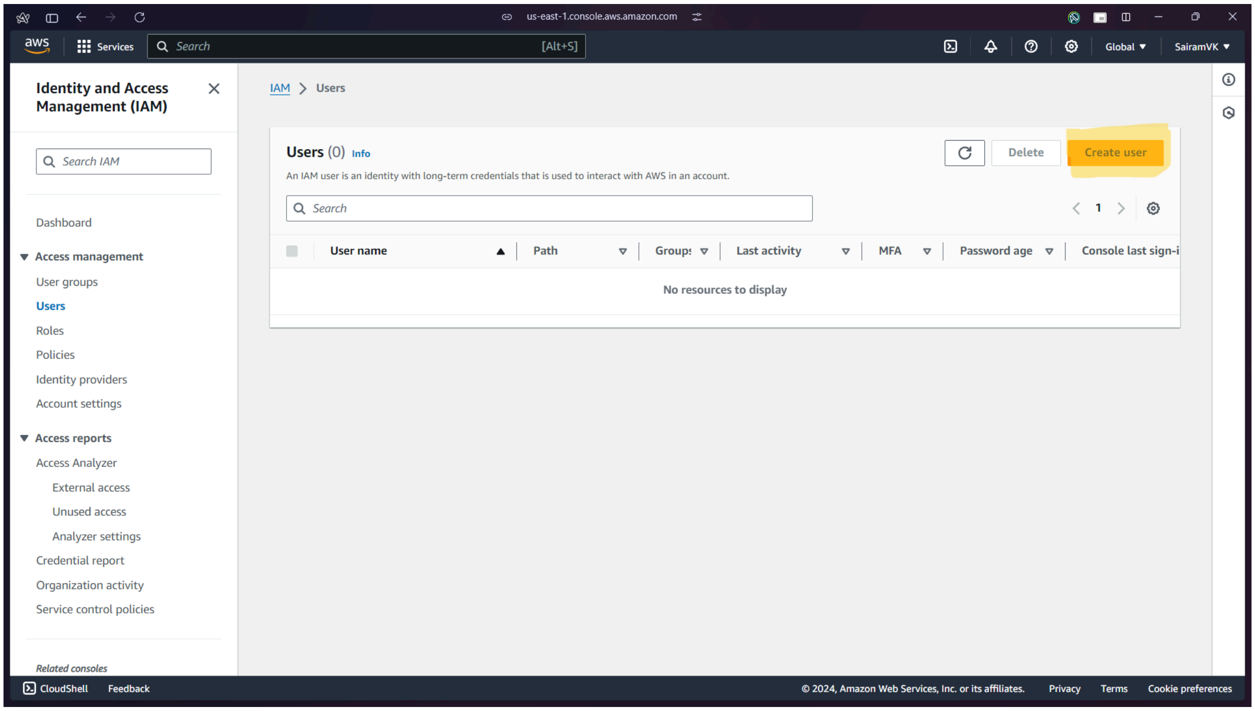
○ Copy permissions
Copy all group memberships, attached managed policies, and inline policies from an existing user.

○ 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

▸ Set permissions boundary - *optional*

1) Search IAM on the services search bar and open it. Click on Create User.


us-east-1.console.aws.amazon.com
aws
Services
Search
[Alt+S]
Global
SairamVK
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
Credential report
Organization activity
Service control policies
Related consoles
IAM > Users
Delete
Create user
Search
1
User name
Path
Groups
Last activity
MFA
Password age
Console last sign-i
CloudShell
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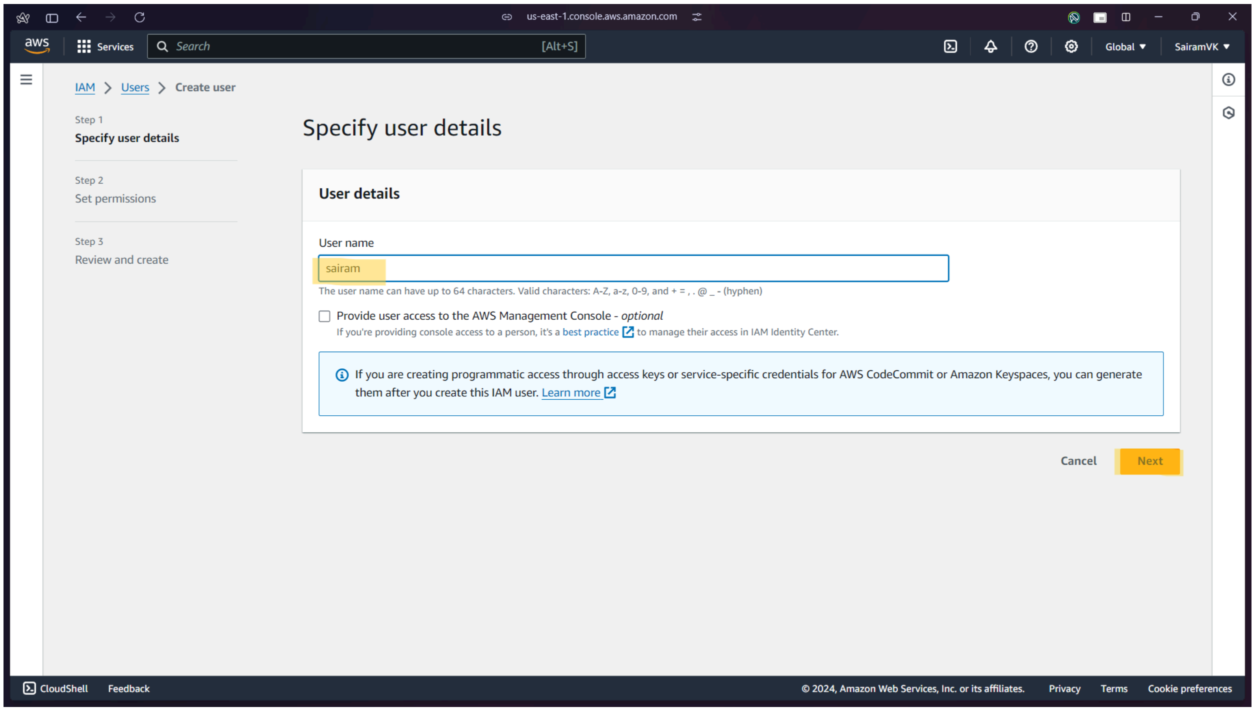
Users (0) Info

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

No resources to display

2) Give a username to your user and click Next.


us-east-1.console.aws.amazon.com
aws
Services
Search
[Alt+S]
Global
SairamVK
IAM > Users > Create user
Step 1
Specify user details
Step 2
Set permissions
Step 3
Review and create
Cancel
Next
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Specify user details

User details

User name: sairam

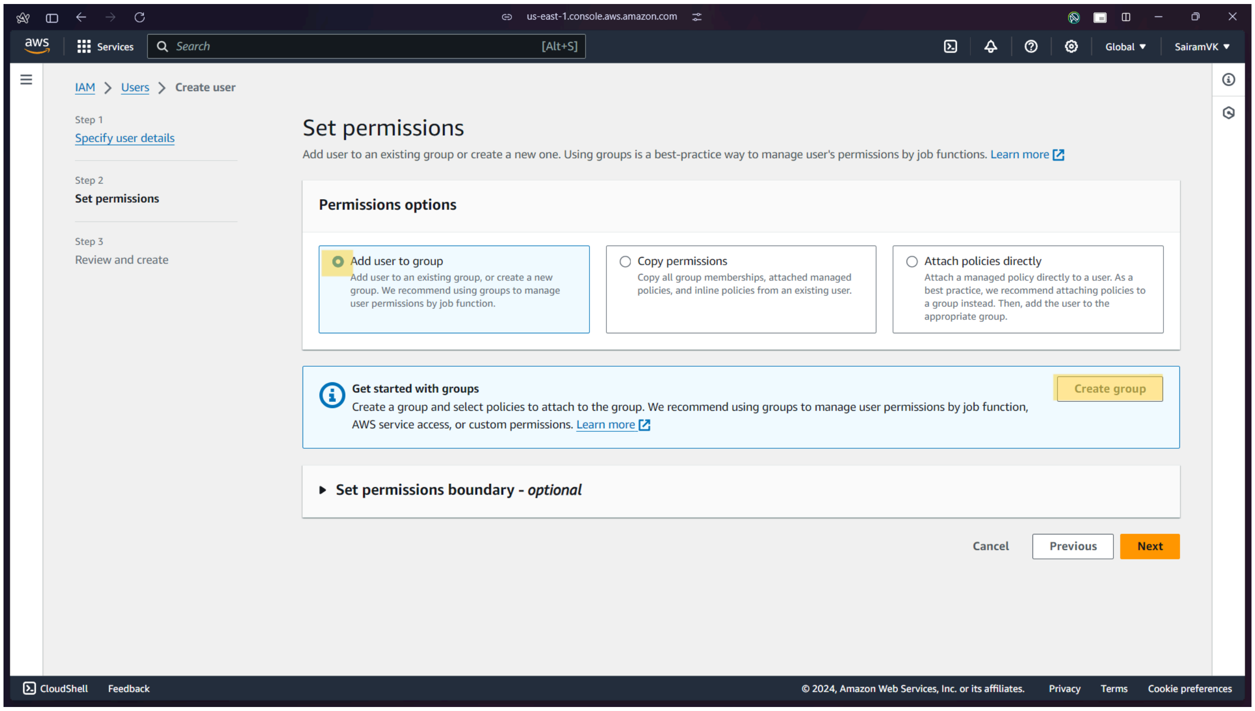
The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (hyphen)

☐ 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.

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

3) Select add User to Group. If there are no user groups on your accounts, you will have to create one. Click on Create Group.


us-east-1.console.aws.amazon.com
aws
Services
Search
[Alt+S]
Global
SairamVK
IAM > Users > Create user
Step 1
Specify user details
Step 2
Set permissions
Step 3
Review and create
Create group
Cancel
Previous
Next
CloudShell
Feedback
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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

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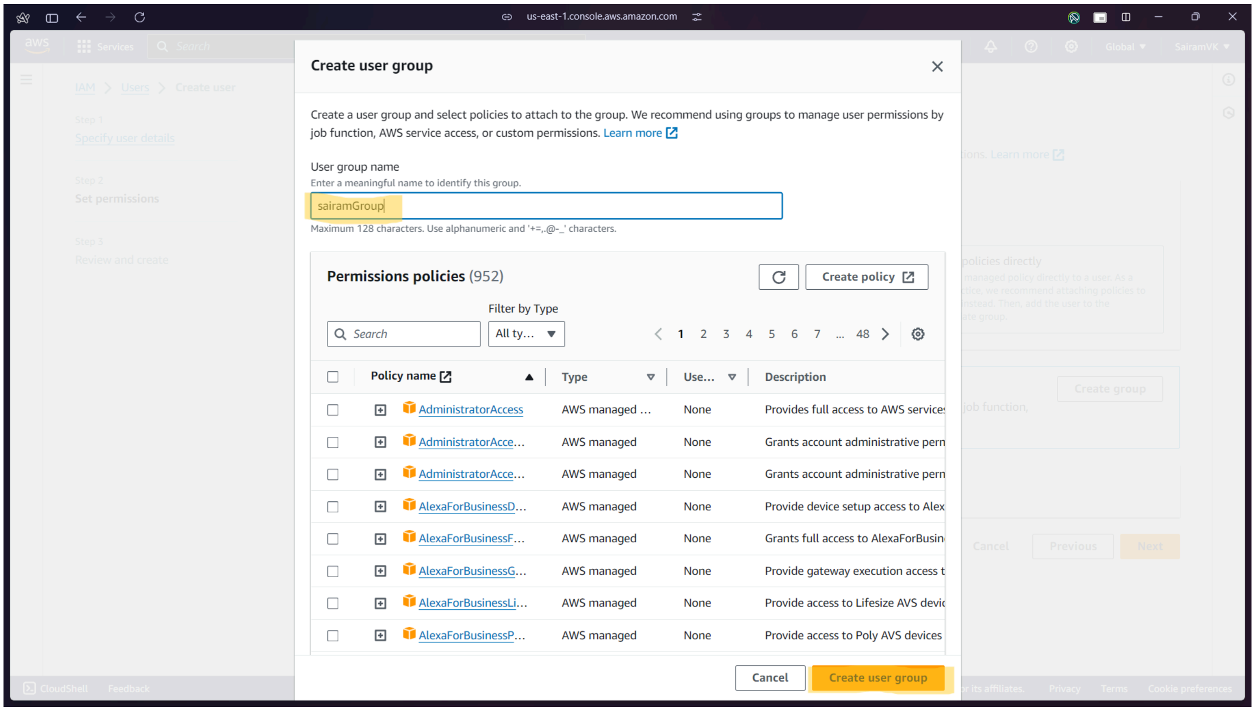
Get started with groups
Create a group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. Learn more

▸ Set permissions boundary - *optional*

4) Give a name to your user group. Then click on Create User Group.


us-east-1.console.aws.amazon.com
Create user group
Create policy
Filter by Type
Search
All ty...
1 2 3 4 5 6 7 ... 48
Cancel
Create user group

Create user group

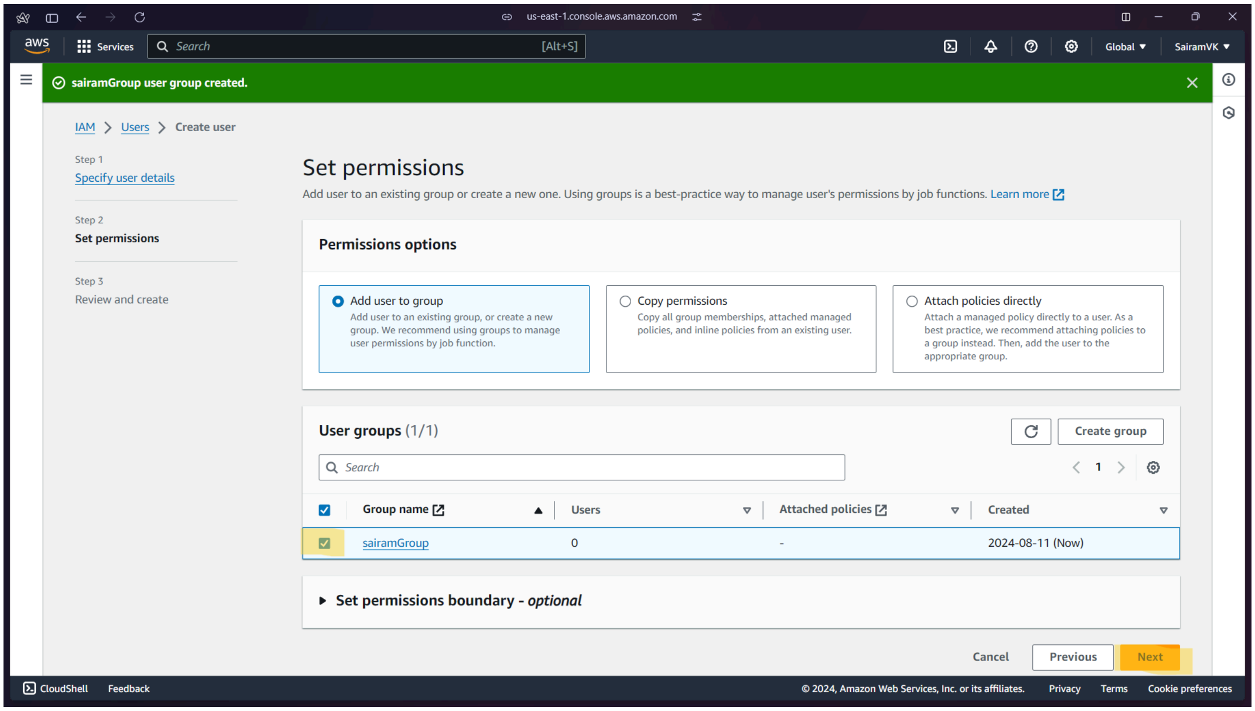
Create a user group and select policies to attach to the group. We recommend using groups to manage user permissions by job function, AWS service access, or custom permissions. Learn more

User group name
Enter a meaningful name to identify this group.
sairamGroup
Maximum 128 characters. Use alphanumeric and '+=,.@-_' characters.

Permissions policies (952)

☐	Policy name	Type	Use...	Description
☐	AdministratorAccess	AWS managed ...	None	Provides full access to AWS services
☐	AdministratorAcce...	AWS managed	None	Grants account administrative perm
☐	AdministratorAcce...	AWS managed	None	Grants account administrative perm
☐	AlexaForBusinessD...	AWS managed	None	Provide device setup access to Alex
☐	AlexaForBusinessF...	AWS managed	None	Grants full access to AlexaForBusin
☐	AlexaForBusinessG...	AWS managed	None	Provide gateway execution access t
☐	AlexaForBusinessLi...	AWS managed	None	Provide access to Lifesize AVS devic
☐	AlexaForBusinessP...	AWS managed	None	Provide access to Poly AVS devices

5) The group is created and shown under the groups area, select the group by clicking on the checkbox. Then click Next.



sairamGroup user group created.

IAM > Users > Create user

Step 1 Specify user details

Step 2 Set permissions

Step 3 Review and create

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 (1/1)

☑	Group name	Users	Attached policies	Created
☑	sairamGroup	0	-	2024-08-11 (Now)

Set permissions boundary - *optional*

us-east-1.console.aws.amazon.com
Services
Search
[Alt+S]
Global
SairamVK
Create group
Cancel
Previous
Next
CloudShell
Feedback
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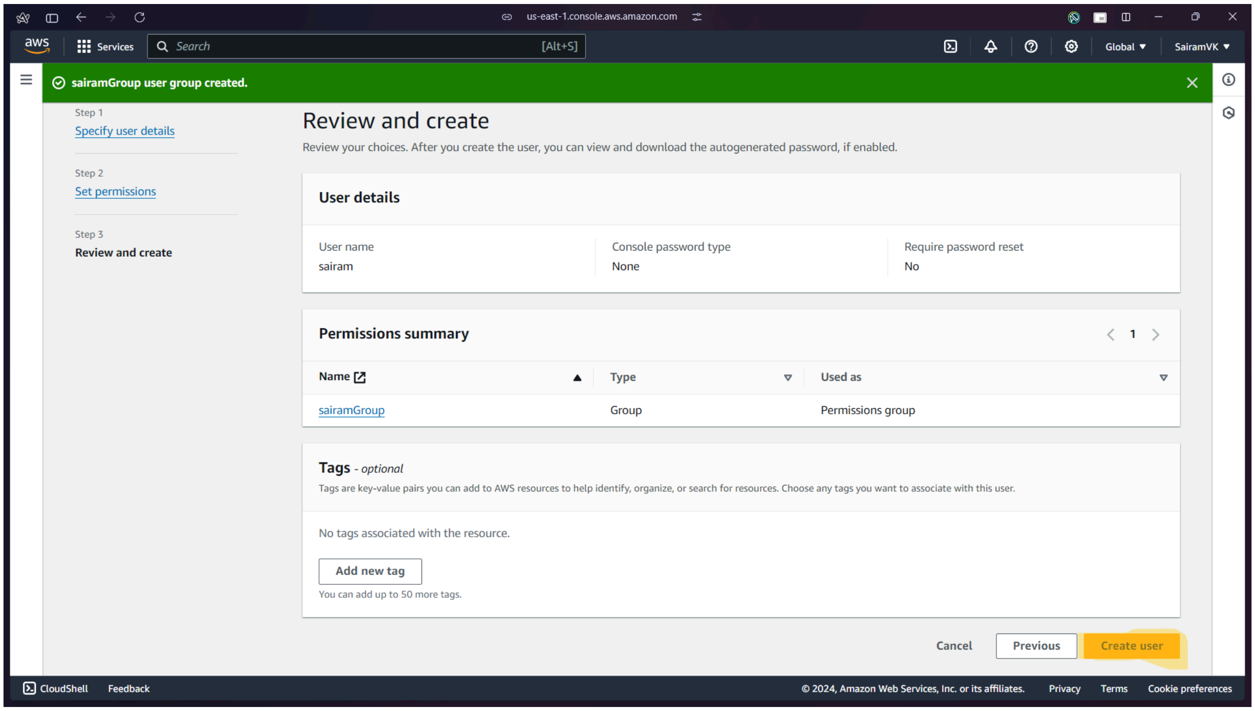
6) Review all the Information, then click on Create user.



sairamGroup user group created.

Step 1 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	Console password type	Require password reset
sairam	None	No

Permissions summary

Name	Type	Used as
sairamGroup	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.

No tags associated with the resource.

You can add up to 50 more tags.

us-east-1.console.aws.amazon.com
Services
Search
[Alt+S]
Global
SairamVK
Add new tag
Cancel
Previous
Create user
CloudShell
Feedback
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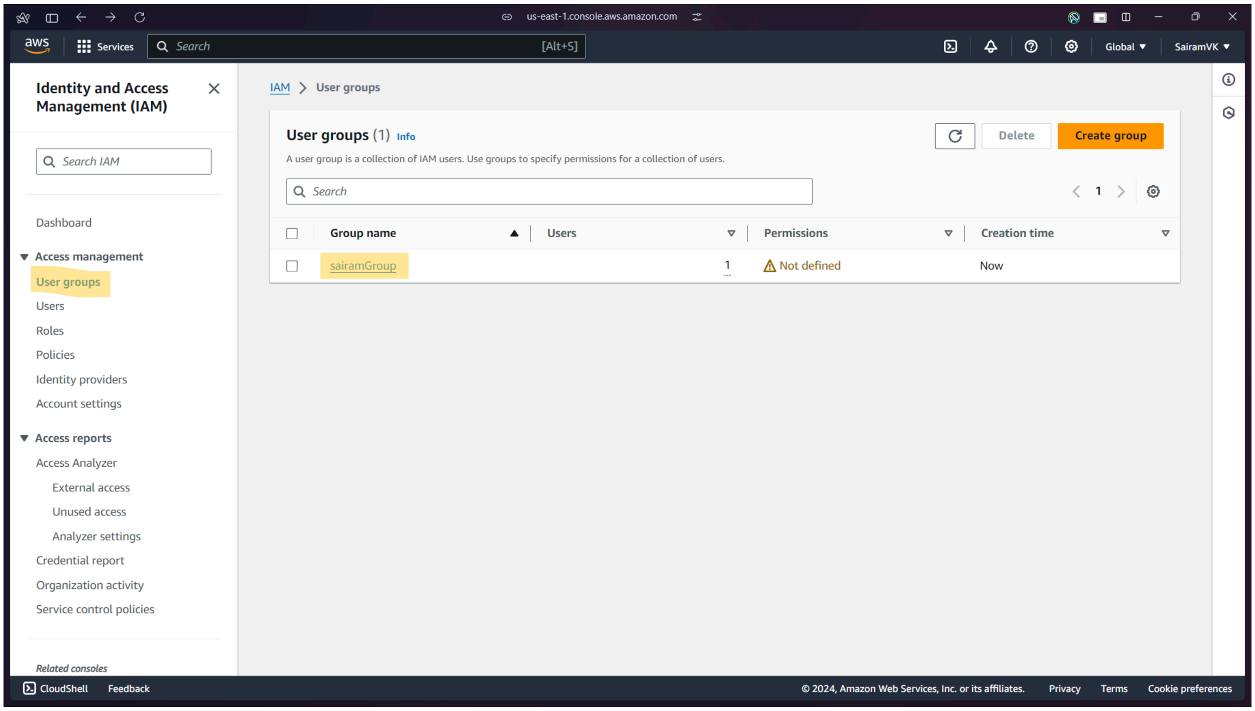
7) Open User Groups tab from the left side option. Click on the name of your group.


us-east-1.console.aws.amazon.com
aws
Services
Search
[Alt+S]
Global
SairamVK
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
Credential report
Organization activity
Service control policies
Related consoles
IAM > User groups
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
CloudShell
Feedback
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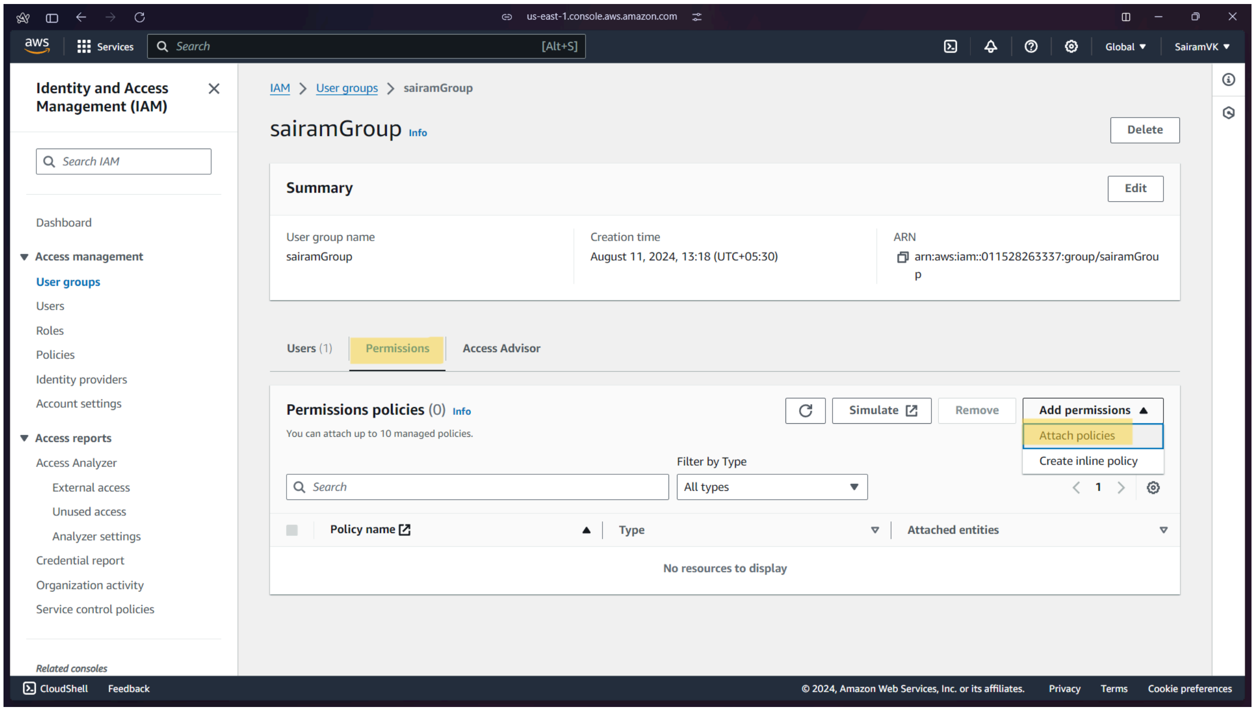
☐	Group name	Users	Permissions	Creation time
☐	sairamGroup	1	⚠ Not defined	Now

8) Go to permissions and click on Add permissions. Click on Attach Policies.


us-east-1.console.aws.amazon.com
aws
Services
Search
[Alt+S]
Global
SairamVK
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
Credential report
Organization activity
Service control policies
Related consoles
IAM > User groups > sairamGroup
sairamGroup Info
Delete
Summary
Edit
Users (1)
Permissions
Access Advisor
Permissions policies (0) Info
Simulate
Remove
Add permissions
Attach policies
Create inline policy
You can attach up to 10 managed policies.
Filter by Type
All types
Search
Policy name
Type
Attached entities
No resources to display
CloudShell
Feedback
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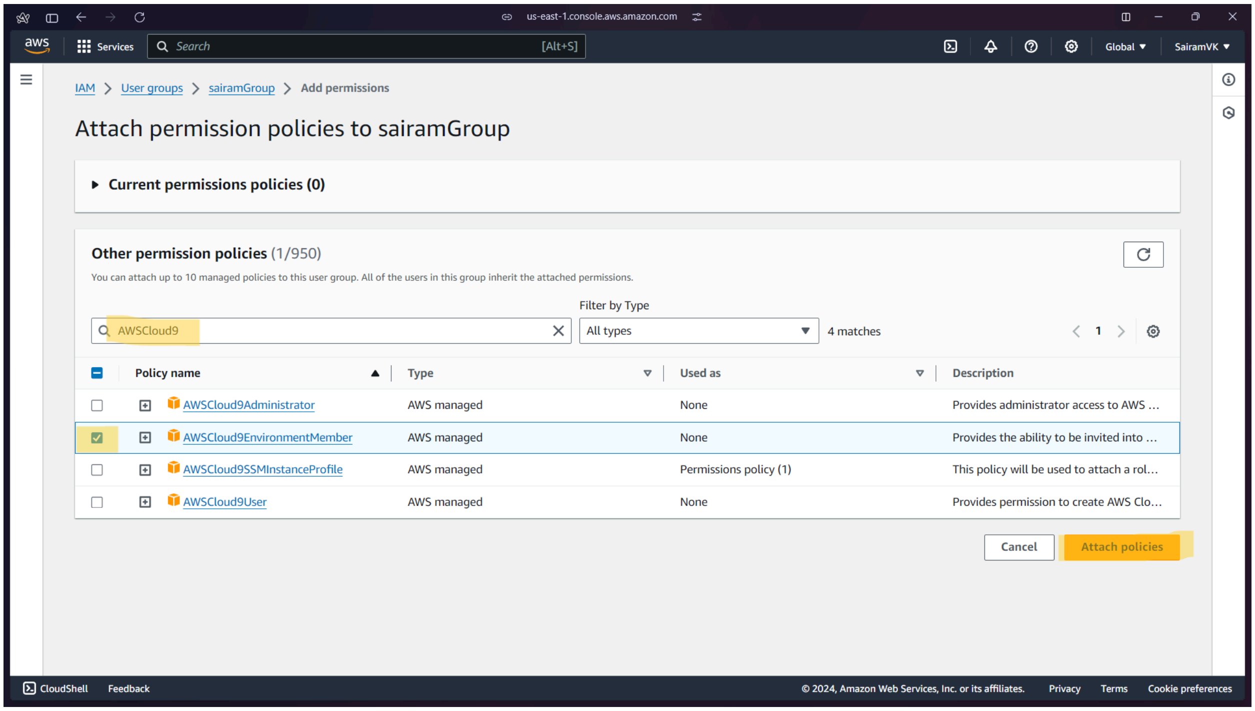
User group name: sairamGroup

Creation time: August 11, 2024, 13:18 (UTC+05:30)

ARN: arn:aws:iam::011528263337:group/sairamGroup

9) Search for AWSCloud9EnvironmentMember, select it and click on Attach policies


us-east-1.console.aws.amazon.com
aws
Services
Search [Alt+S]
Global
SairamVK
IAM > User groups > sairamGroup > Add permissions

Attach permission policies to sairamGroup

Current permissions policies (0)

Other permission policies (1/950)

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

Search: AWSCloud9

Filter by Type: All types

4 matches

	Policy name	Type	Used as	Description
☐	AWSCloud9Administrator	AWS managed	None	Provides administrator access to AWS …
☑	AWSCloud9EnvironmentMember	AWS managed	None	Provides the ability to be invited into …
☐	AWSCloud9SSMInstanceProfile	AWS managed	Permissions policy (1)	This policy will be used to attach a rol…
☐	AWSCloud9User	AWS managed	None	Provides permission to create AWS Clo…

Cancel
Attach policies
CloudShell
Feedback
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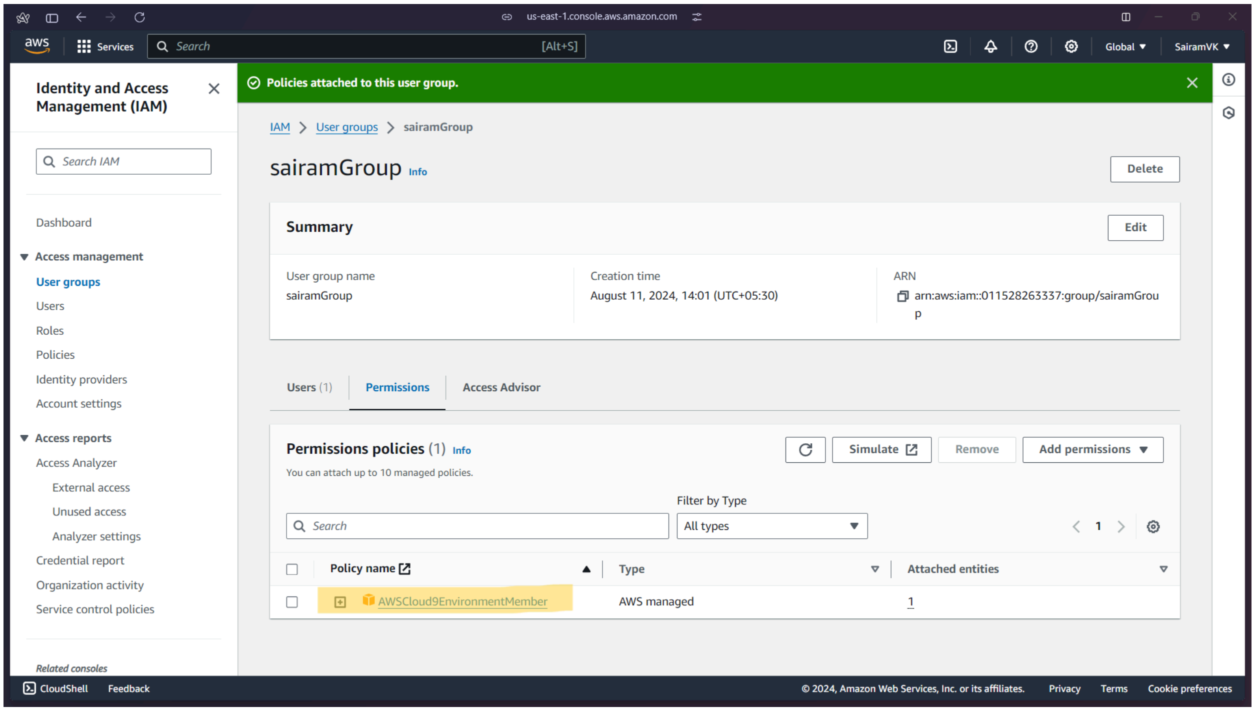
10) The policies have been attached.


us-east-1.console.aws.amazon.com
aws
Services
Search [Alt+S]
Global
SairamVK
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
Credential report
Organization activity
Service control policies
Related consoles
IAM > User groups > sairamGroup
Delete
Edit
Users (1)
Permissions
Access Advisor
Simulate
Remove
Add permissions
CloudShell
Feedback
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Policies attached to this user group.

sairamGroup Info

Summary

User group name: sairamGroup

Creation time: August 11, 2024, 14:01 (UTC+05:30)

ARN: arn:aws:iam::011528263337:group/sairamGroup

Permissions policies (1) Info

You can attach up to 10 managed policies.

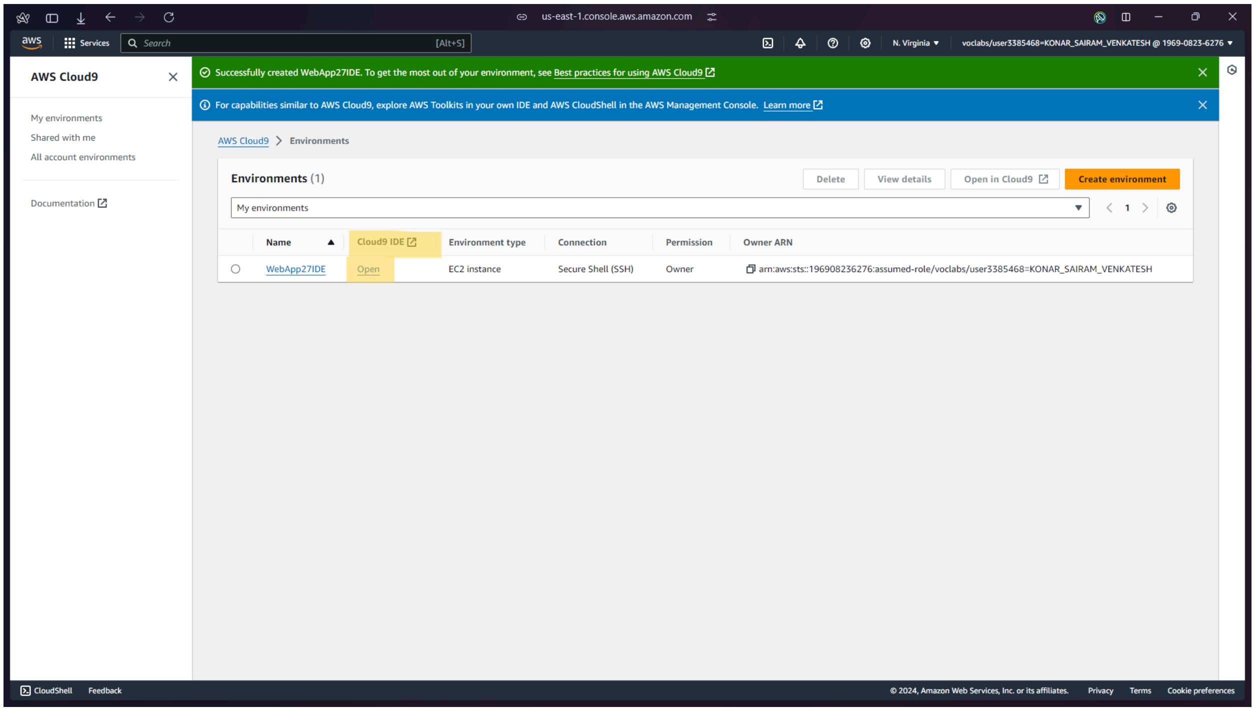
Search

Filter by Type: All types

	Policy name	Type	Attached entities
☐	AWSCloud9EnvironmentMember	AWS managed	1

Step 3: Working on Cloud9 IDE

1) Go to Cloud9 services. Click on Open under Clou9 IDE.



Successfully created WebApp27IDE. To get the most out of your environment, see Best practices for using AWS Cloud9

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

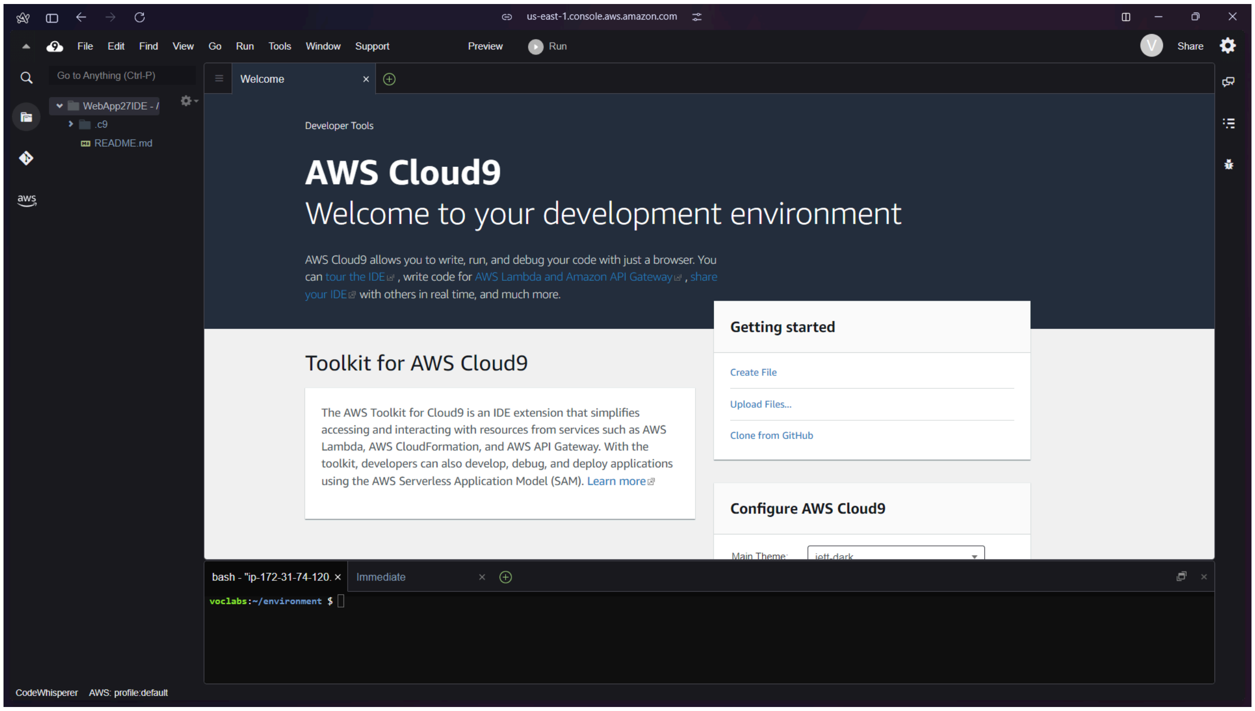
Environments (1)

My environments

	Name	Cloud9 IDE	Environment type	Connection	Permission	Owner ARN
○	WebApp27IDE	Open	EC2 instance	Secure Shell (SSH)	Owner	arn:aws:sts::196908236276:assumed-role/voclabs/user3385468=KONAR_SAIRAM_VENKATESH

us-east-1.console.aws.amazon.com
Services
Search
[Alt+S]
N. Virginia
voclabs/user3385468=KONAR_SAIRAM_VENKATESH @ 1969-0823-6276
AWS Cloud9
My environments
Shared with me
All account environments
Documentation
Delete
View details
Open in Cloud9
Create environment
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

2) This is the Cloud9 IDE interface. The major part of the screen is the coding IDE. There is a command console just below it. For example, the command git --version is run.



Developer Tools

AWS Cloud9

Welcome to your development environment

AWS Cloud9 allows you to write, run, and debug your code with just a browser. You can tour the IDE, write code for AWS Lambda and Amazon API Gateway, share your IDE with others in real time, and much more.

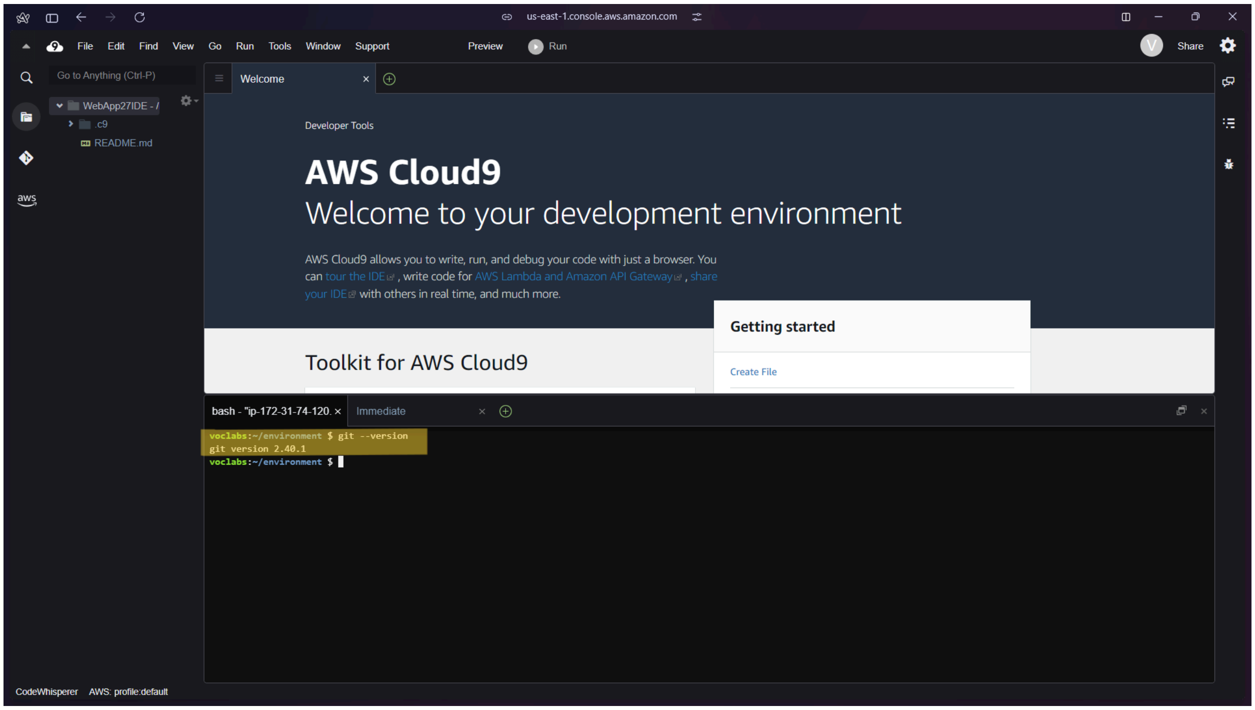
Toolkit for AWS Cloud9

The AWS Toolkit for Cloud9 is an IDE extension that simplifies accessing and interacting with resources from services such as AWS Lambda, AWS CloudFormation, and AWS API Gateway. With the toolkit, developers can also develop, debug, and deploy applications using the AWS Serverless Application Model (SAM). Learn more

Main Theme: jett-dark

```
voclabs:~/environment $ 
```

us-east-1.console.aws.amazon.com
File
Edit
Find
View
Go
Run
Tools
Window
Support
Preview
Run
Share
Go to Anything (Ctrl-P)
WebApp27IDE - /
.c9
README.md
Welcome
Getting started
Create File
Upload Files...
Clone from GitHub
Configure AWS Cloud9
bash - "ip-172-31-74-120.
Immediate
CodeWhisperer
AWS: profile:default


us-east-1.console.aws.amazon.com
File
Edit
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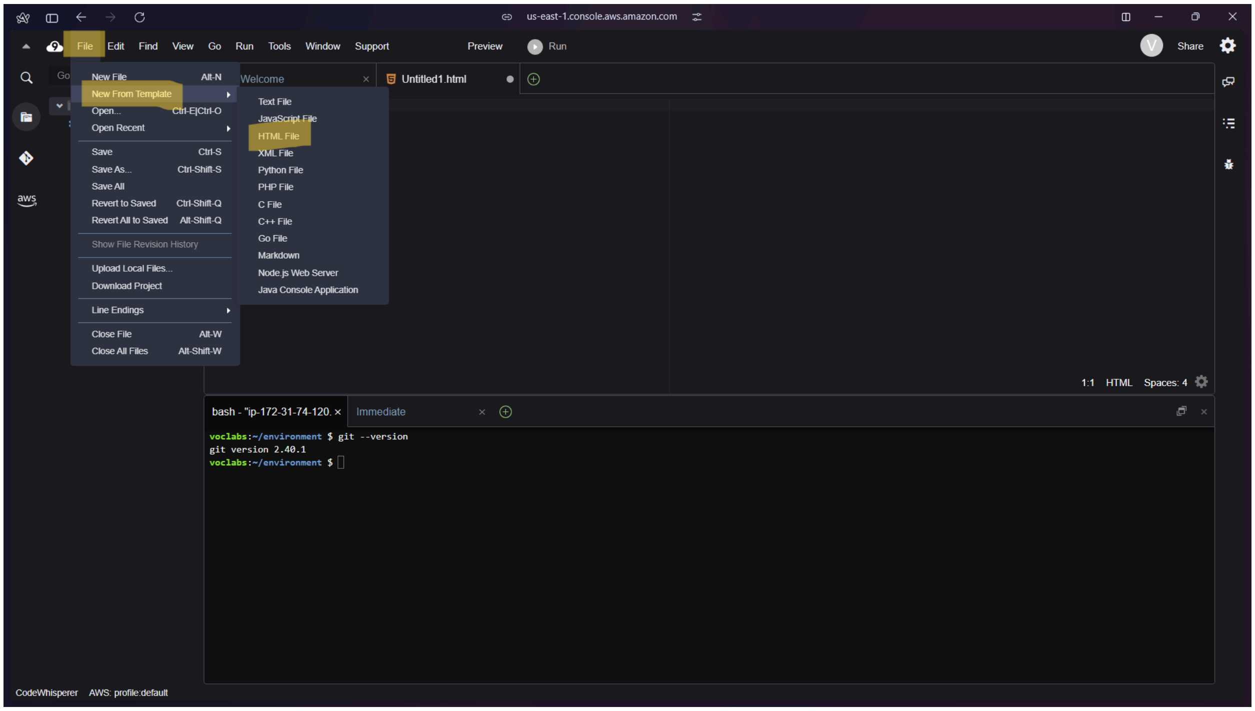
Toolkit for AWS Cloud9

bash - "ip-172-31-74-120.

```
voclabs:~/environment $ git --version
git version 2.40.1
voclabs:~/environment $
```

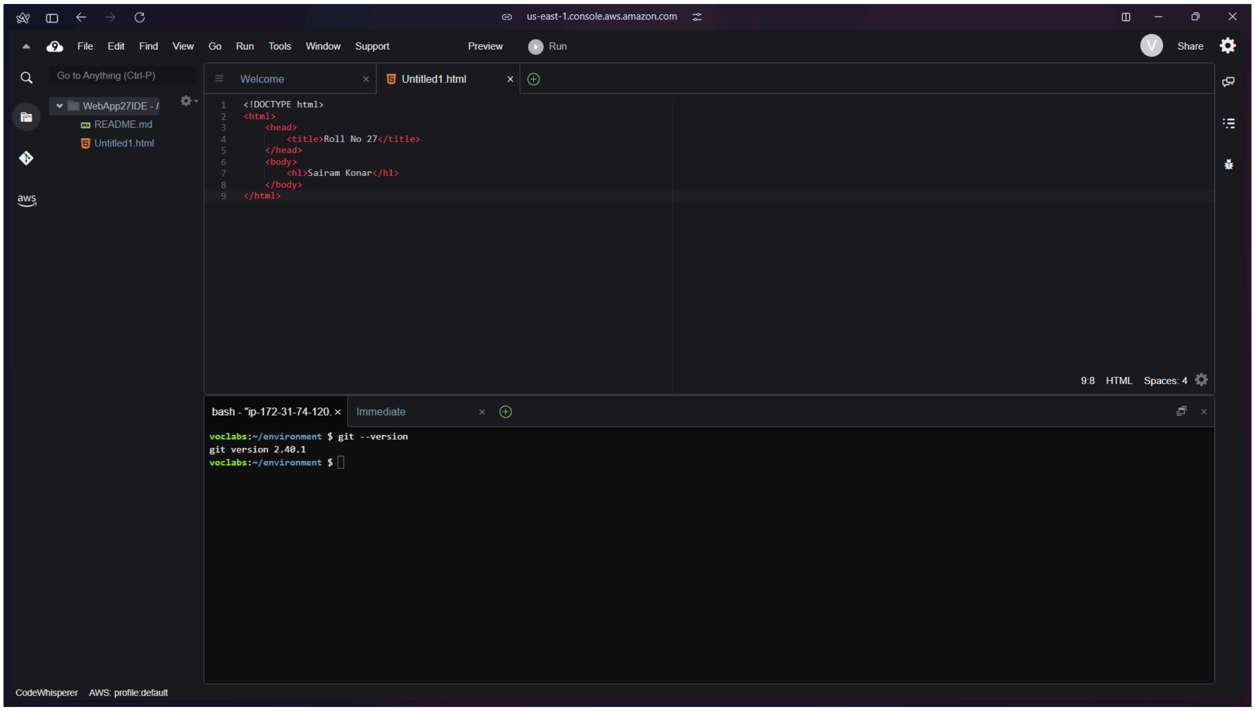
3) To add a file, click on file. For this experiment, we are to add an HTML file. So go to File → New From Template → HTML file. This gives a basic HTML template on the coding IDE.


us-east-1.console.aws.amazon.com
File
Edit
Find
View
Go
Run
Tools
Window
Support
Preview
Run
Share
New File
Alt-N
New From Template
Open...
Ctrl-E|Ctrl-O
Open Recent
Save
Ctrl-S
Save As...
Ctrl-Shift-S
Save All
Revert to Saved
Ctrl-Shift-Q
Revert All to Saved
Alt-Shift-Q
Show File Revision History
Upload Local Files...
Download Project
Line Endings
Close File
Alt-W
Close All Files
Alt-Shift-W
Text File
JavaScript File
HTML File
XML File
Python File
PHP File
C File
C++ File
Go File
Markdown
Node.js Web Server
Java Console Application
Welcome
Untitled1.html
1:1
HTML
Spaces: 4
Immediate
CodeWhisperer
AWS: profile:default

bash - "ip-172-31-74-120.

```
voclabs:~/environment $ git --version
git version 2.40.1
voclabs:~/environment $
```

4) Make a basic website on the HTML template and save it.

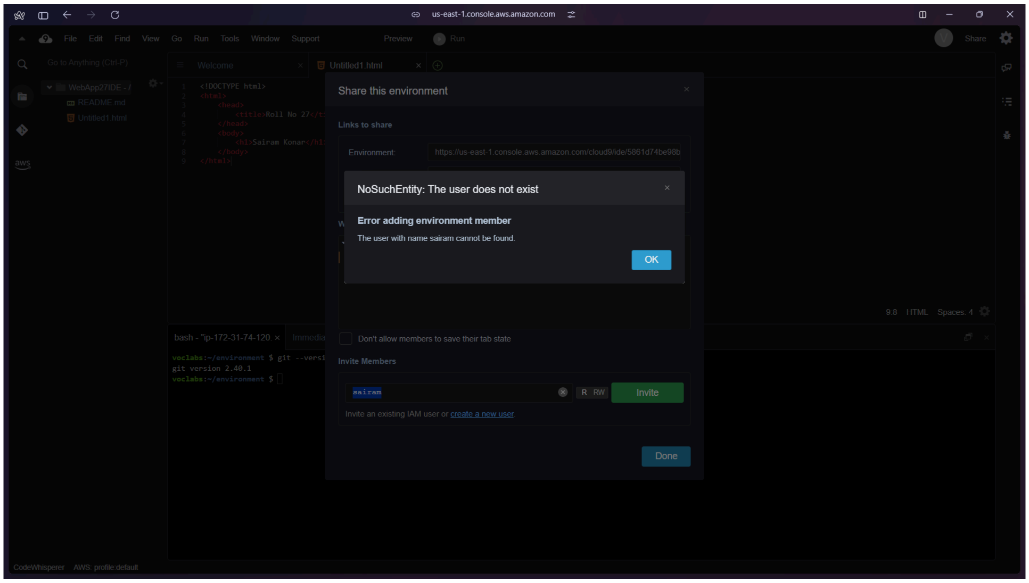


File Edit Find View Go Run Tools Window Support Preview Run Share
Go to Anything (Ctrl-P)
WebApp27IDE - /
README.md
Untitled1.html
Welcome
bash - "ip-172-31-74-120.
Immediate
9:8 HTML Spaces: 4
CodeWhisperer AWS: profile:default

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Roll No 27</title>
    </head>
    <body>
        <h1>Sairam Konar</h1>
    </body>
</html>
```

```
voclabs:~/environment $ git --version
git version 2.40.1
voclabs:~/environment $ 
```

After saving, on the toolbar towards the far right, click on Share. Then put the username that you had entered during creating IAM user.



Links to share
Invite Members
R RW
Invite
Done
OK

Share this environment

Environment: https://us-east-1.console.aws.amazon.com/cloud9/ide/5861d74be98b

NoSuchEntity: The user does not exist

Error adding environment member

The user with name sairam cannot be found.

☐ Don't allow members to save their tab state

sairam

Invite an existing IAM user or create a new user.

Here, it gives an error as Cloud9 was created on the academy account where creating an IAM group is not available, while on the personal account, the services of Cloud9 have been deprecated. So currently, it is not possible to integrate the cloud9 and IAM parts of the experiment.