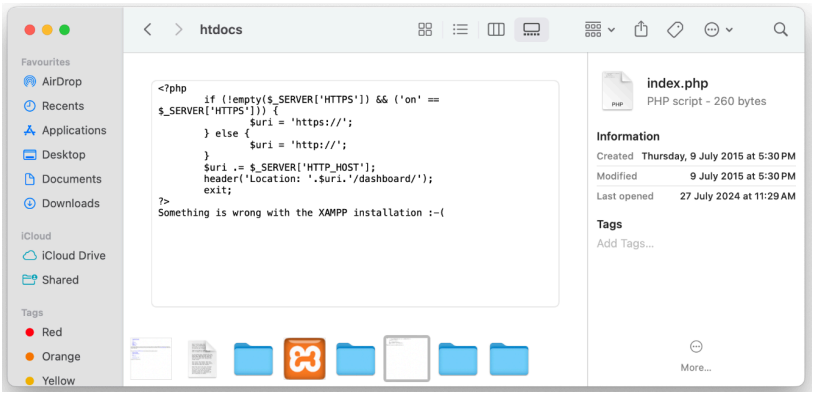
Experiment 1A

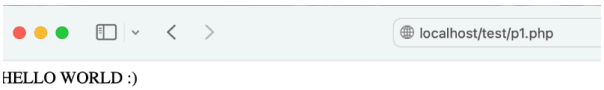
Hosting a static site using xampp

1. Download and open the xampp application

2. Go to the files “htdocs” and upload the php code there



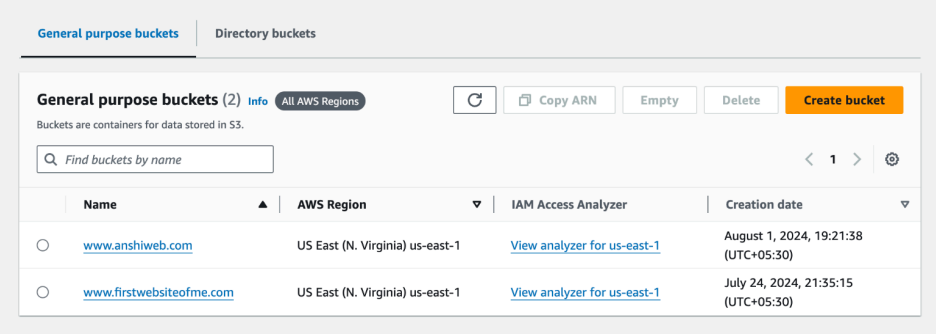
3. Go to xampp, enter the folder name in the top link and run the file
   You will see the website



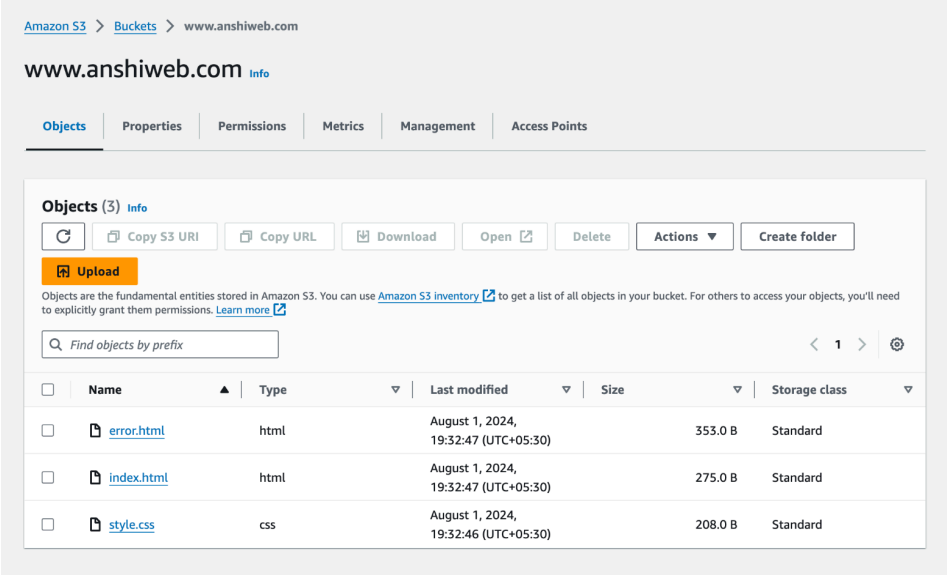
HELLO WORLD :)

Hosting a static website using AWS S3

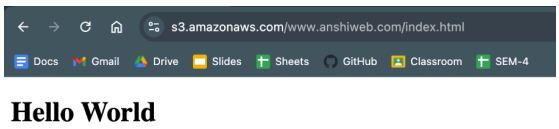
1. Create a bucket in AWS S3 interface



2. Upload all your files in the buckets inventory



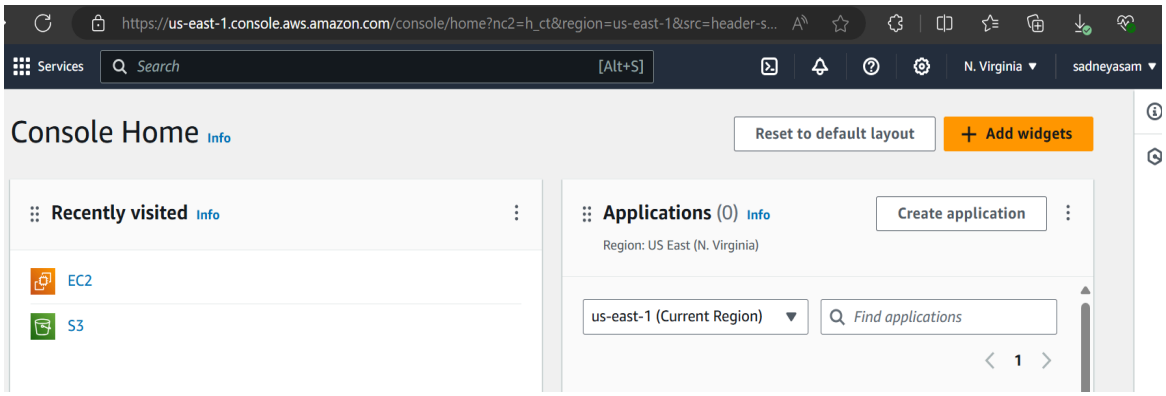
3. Click on the link of the bucket to go to the hosted site



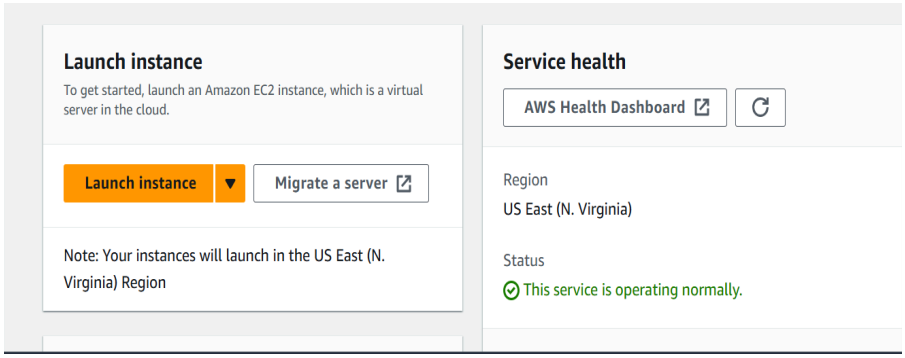
Hello World

Create instance using EC2

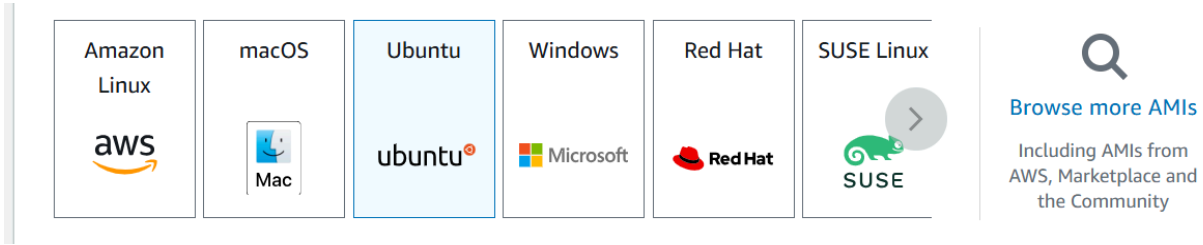
1. Open the aws console and choose EC2



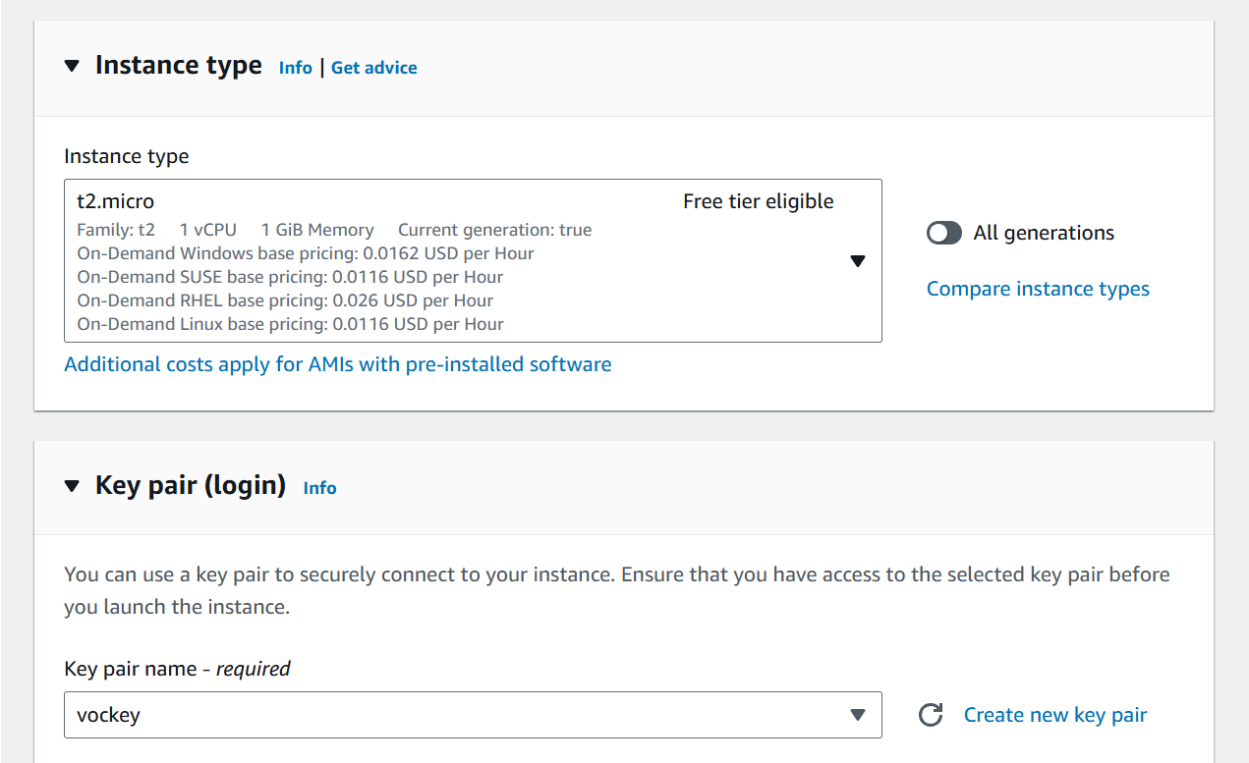
2. Launch instance



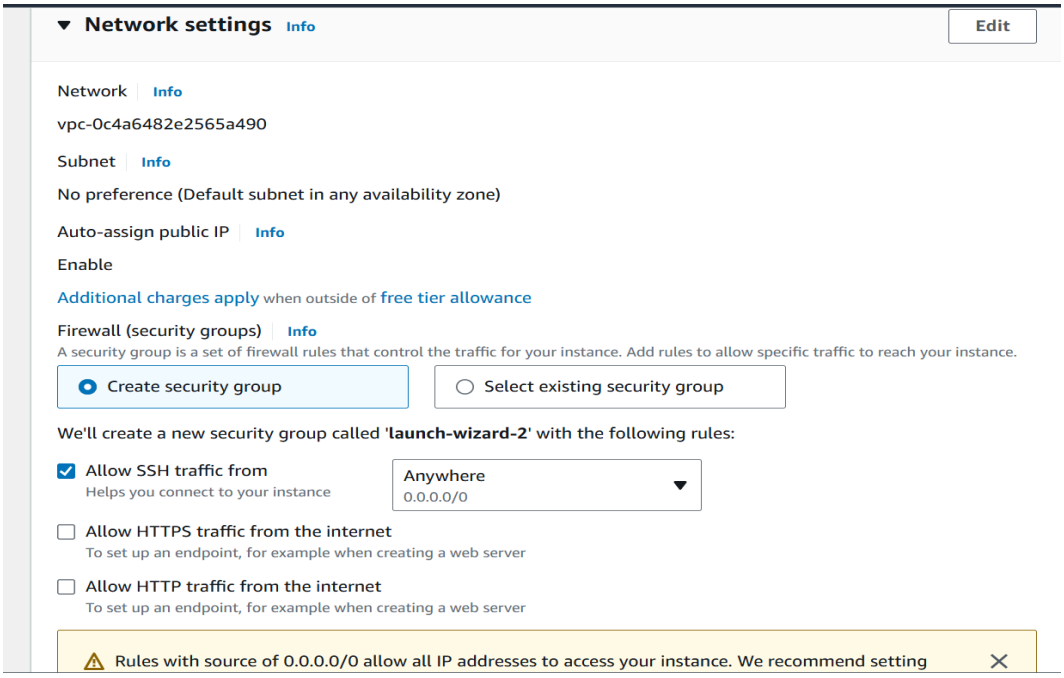
3. Choose ubuntu



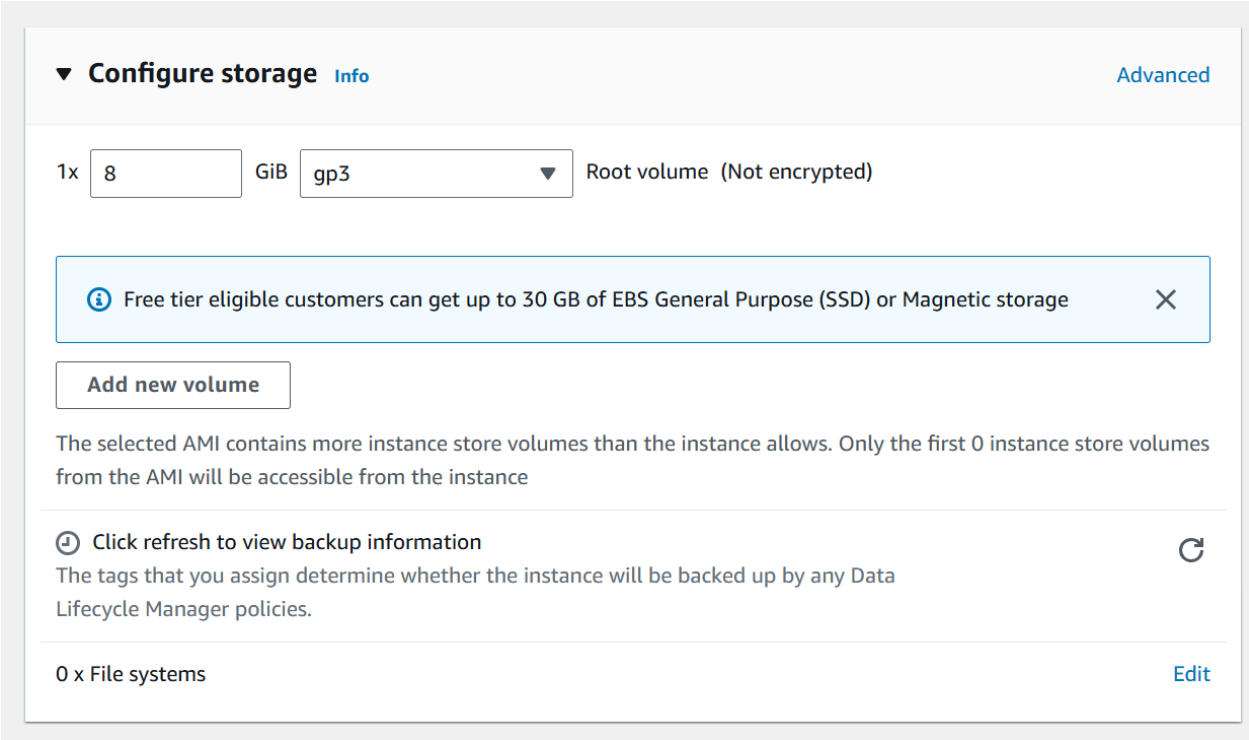
4. Choose instance and key



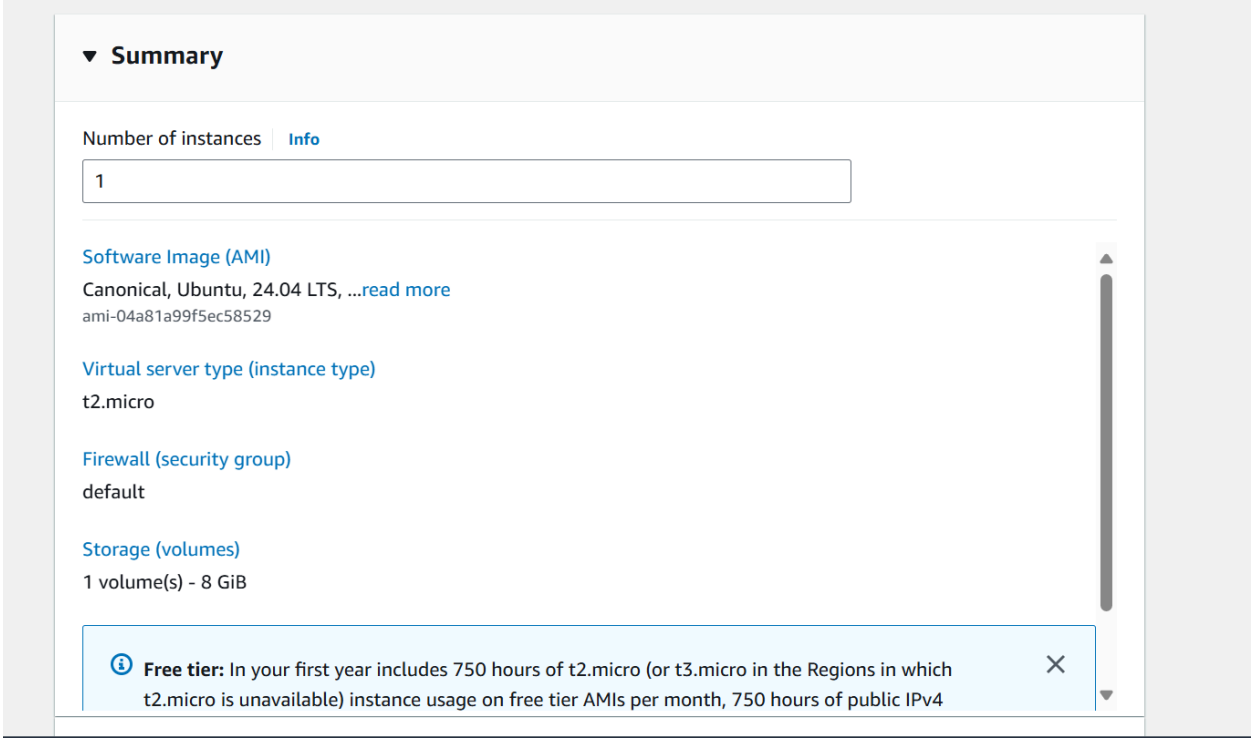
5. Configure network settings



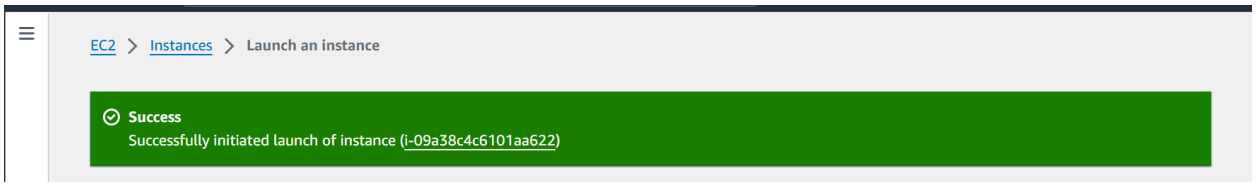
6. Configure storage settings



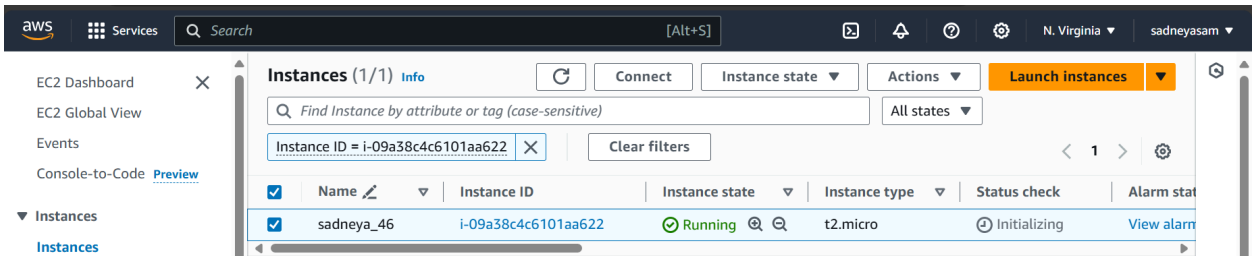
7. This is the instance summary



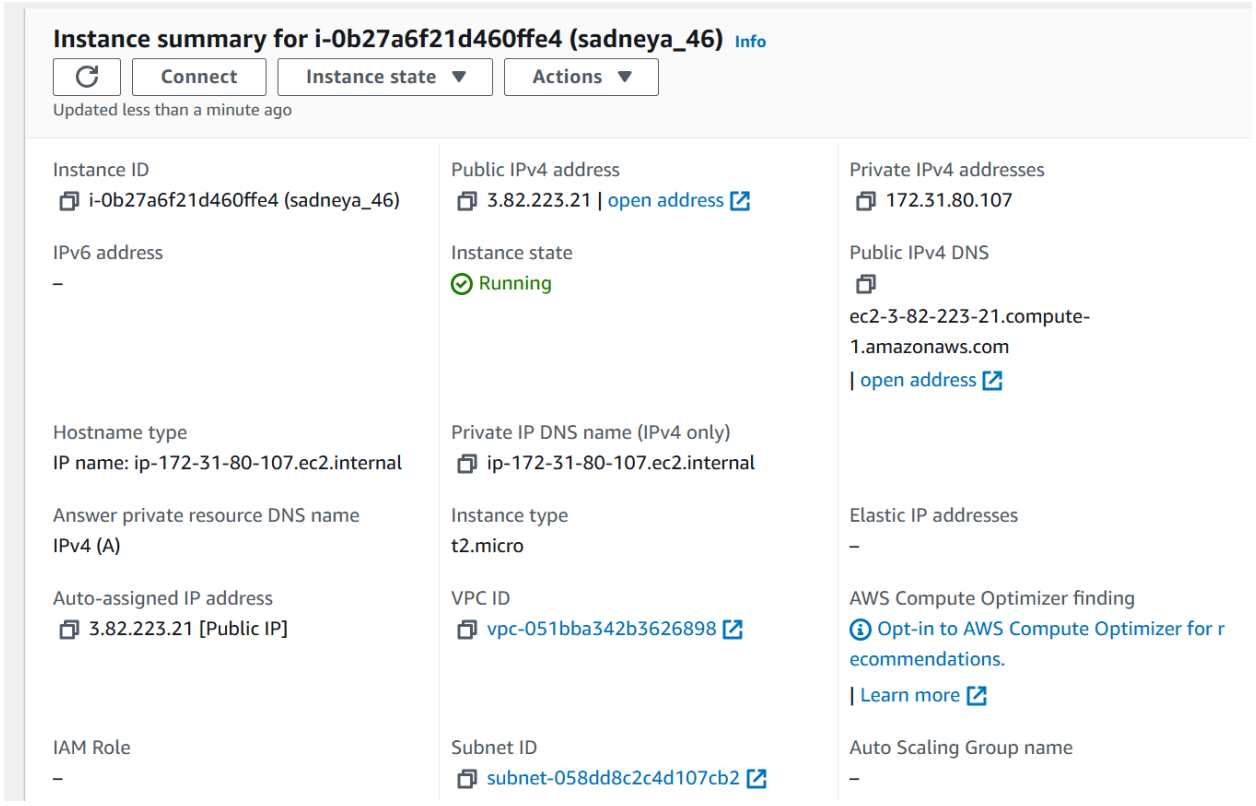
8. The process was successful



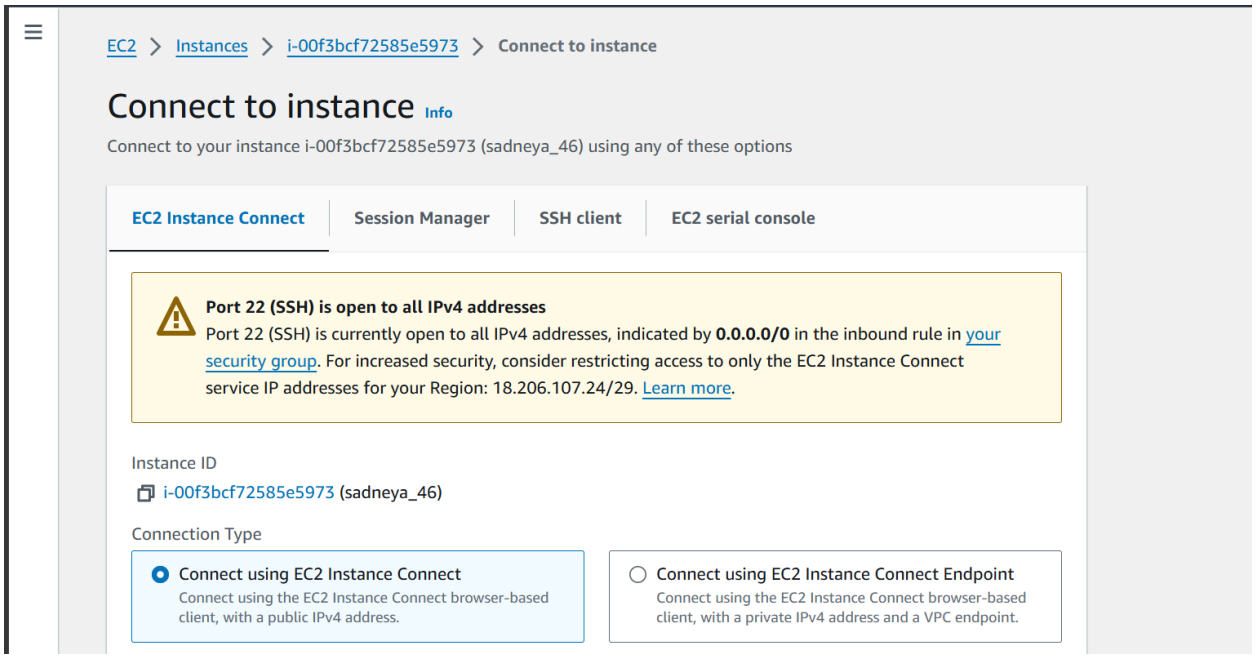
9. Select instance



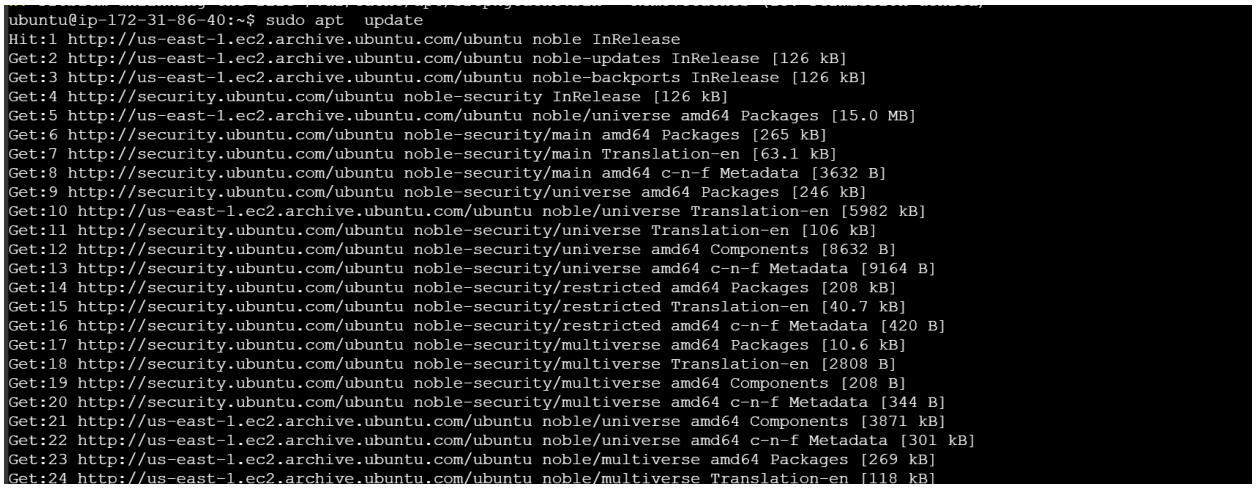
10. Instance summary



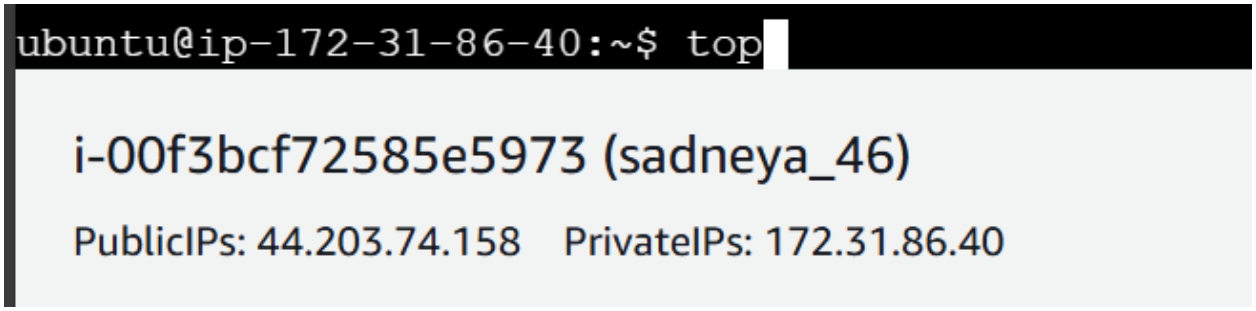
11. Connect to instance



12. Run sudo apt update in the ssh terminal



13. Run top



```
top - 04:37:13 up 10 min,  1 user,  load average: 0.17, 0.09, 0.07
Tasks: 105 total,   1 running, 104 sleeping,   0 stopped,   0 zombie
%Cpu(s):  0.0 us,  0.0 sy,  0.0 ni,100.0 id,  0.0 wa,  0.0 hi,  0.0 si,  0.0 st
MiB Mem :    957.4 total,    227.6 free,    354.7 used,    530.5 buff/cache
MiB Swap:      0.0 total,      0.0 free,      0.0 used.    602.8 avail Mem

    PID USER      PR  NI    VIRT    RES    SHR S  %CPU  %MEM     TIME+ COMMAND
      1 root      20   0   22520  13536   9568 S   0.0   1.4   0:03.80 systemd
      2 root      20   0       0      0      0 S   0.0   0.0   0:00.00 kthreadd
      3 root      20   0       0      0      0 S   0.0   0.0   0:00.00 pool_workqueue_release
      4 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-rcu_g
      5 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-rcu_p
      6 root       0 -20       0      0      0 I   0.0   0.0   0:00.00 kworker/R-slub_
```

14. Run history

```
ubuntu@ip-172-31-86-40:~$ history
    1  sudo -l
    2  apt update
    3  sudo apt  update
    4  top
    5  history
```

15. run vmstat

```
ubuntu@ip-172-31-86-40:~$ vmstat
procs -----------memory---------- ---swap-- -----io---- -system-- -------cpu-------
 r  b   swpd   free   buff  cache   si   so    bi    bo   in   cs us sy id wa st gu
 2  0      0 233040  18712 524596    0    0   379   806  189    1  3  1 94  1  1  0
```

16. Run df

```
ubuntu@ip-172-31-86-40:~$ df
Filesystem     1K-blocks    Used Available Use% Mounted on
/dev/root        7034376 1814472   5203520  26% /
tmpfs             490208       0    490208   0% /dev/shm
tmpfs             196084     872    195212   1% /run
tmpfs               5120       0      5120   0% /run/lock
/dev/xvda16       901520   76972    761420  10% /boot
/dev/xvda15       106832    6246    100586   6% /boot/efi
tmpfs              98040      12     98028   1% /run/user/1000
```

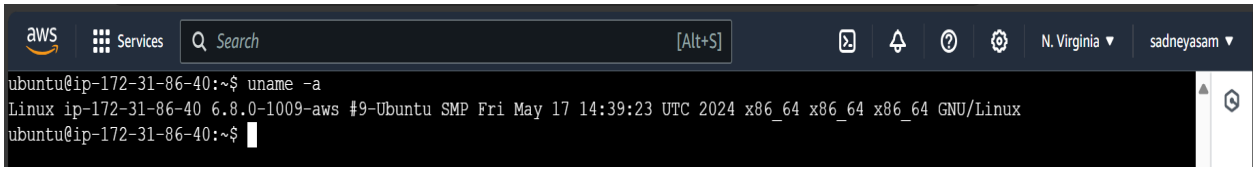
17. Run df -kh, whatis df, df –help, uname -a

```
ubuntu@ip-172-31-86-40:~$ df -kh
Filesystem      Size  Used Avail Use% Mounted on
/dev/root       6.8G  1.8G  5.0G  26% /
tmpfs           479M     0  479M   0% /dev/shm
tmpfs           192M  872K  191M   1% /run
tmpfs           5.0M     0  5.0M   0% /run/lock
/dev/xvda16     881M   76M  744M  10% /boot
/dev/xvda15     105M  6.1M   99M   6% /boot/efi
tmpfs            96M   12K   96M   1% /run/user/1000
```

```
ubuntu@ip-172-31-86-40:~$ whatis df
df (1)               - report file system space usage
```

```
ubuntu@ip-172-31-86-40:~$ df --help
Usage: df [OPTION]... [FILE]...
Show information about the file system on which each FILE resides,
or all file systems by default.

Mandatory arguments to long options are mandatory for short options too.
  -a, --all             include pseudo, duplicate, inaccessible file systems
  -B, --block-size=SIZE  scale sizes by SIZE before printing them; e.g.,
                           '-BM' prints sizes in units of 1,048,576 bytes;
                           see SIZE format below
  -h, --human-readable  print sizes in powers of 1024 (e.g., 1023M)
  -H, --si              print sizes in powers of 1000 (e.g., 1.1G)
  -i, --inodes          list inode information instead of block usage
  -k                    like --block-size=1K
  -l, --local           limit listing to local file systems
      --no-sync         do not invoke sync before getting usage info (default)
      --output[=FIELD_LIST]  use the output format defined by FIELD_LIST,
                               or print all fields if FIELD_LIST is omitted.
  -P, --portability     use the POSIX output format
      --sync            invoke sync before getting usage info
      --total           elide all entries insignificant to available space,
                          and produce a grand total
  -t, --type=TYPE       limit listing to file systems of type TYPE
  -T, --print-type      print file system type
  -x, --exclude-type=TYPE   limit listing to file systems not of type TYPE
  -v                    (ignored)
```

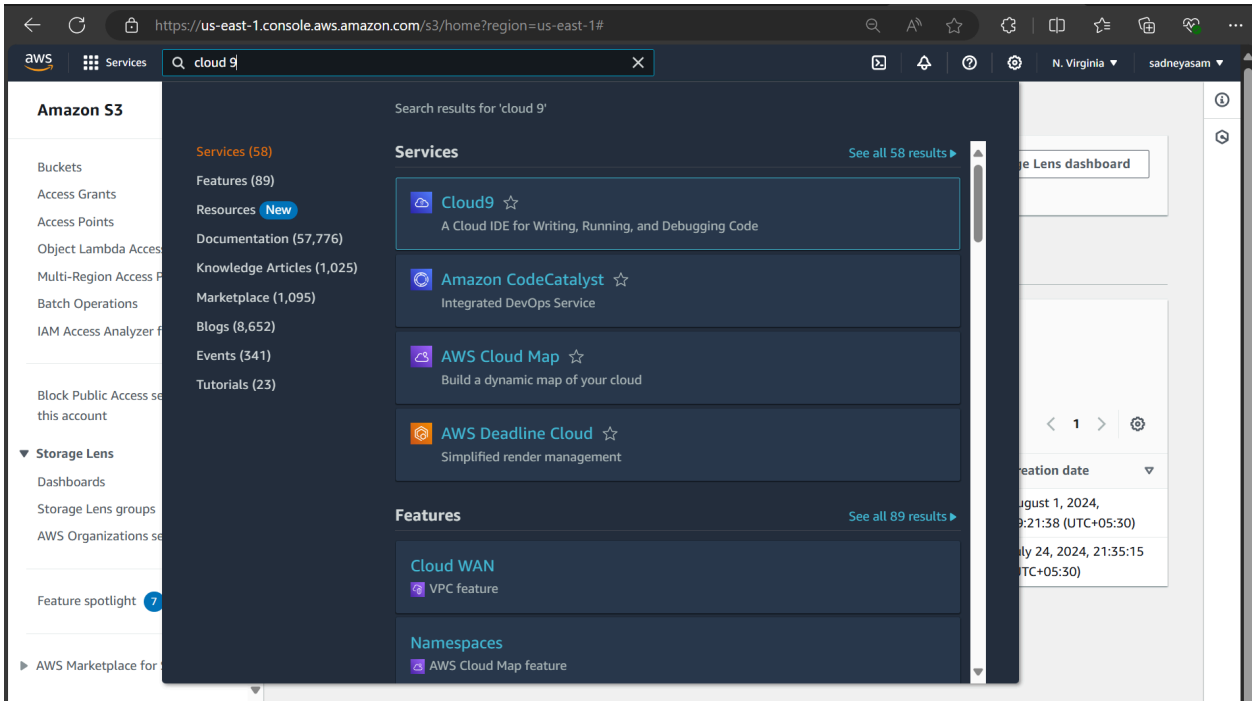


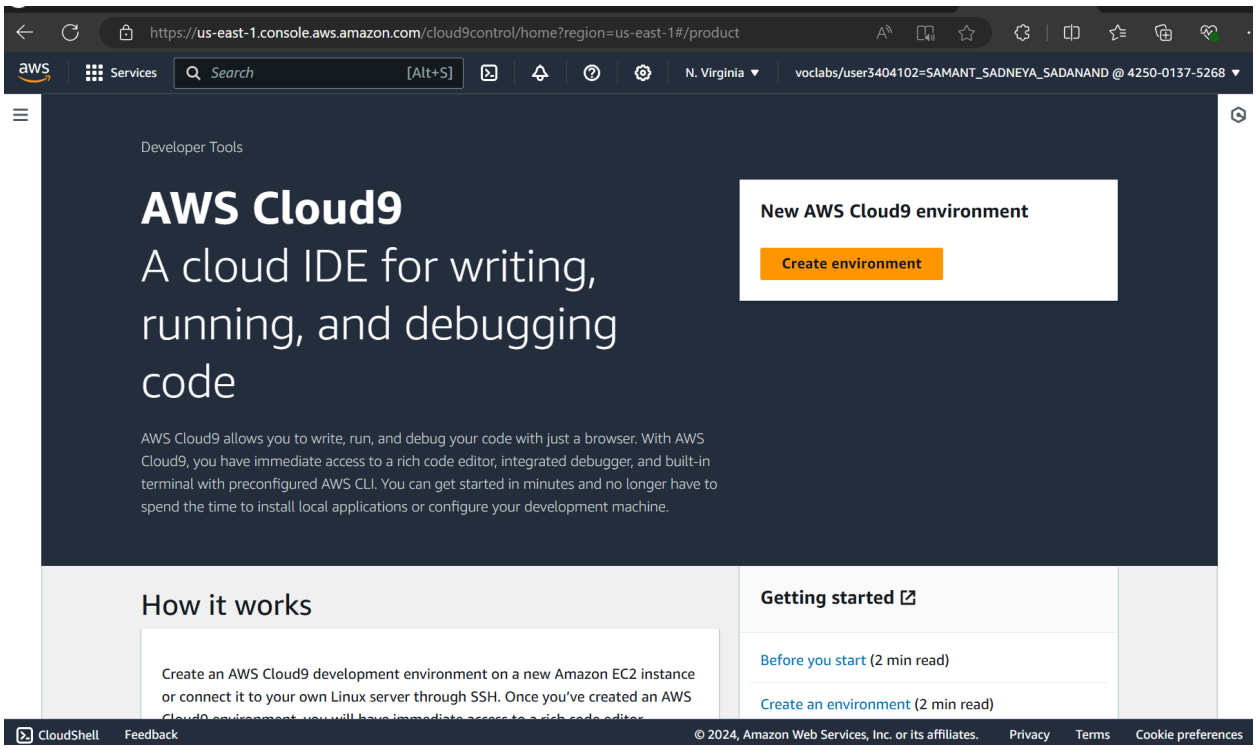
18. Create and do file operations

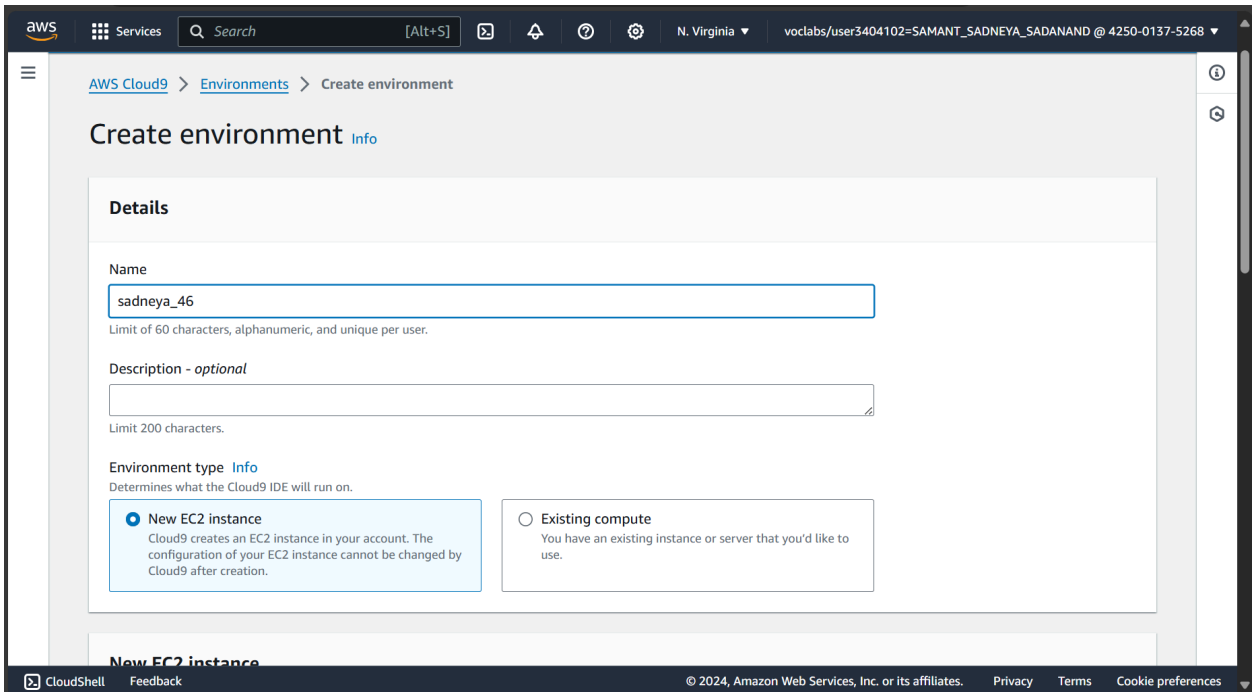
```
ubuntu@ip-172-31-80-107:~$ mkdir test
ubuntu@ip-172-31-80-107:~$ ls
test
ubuntu@ip-172-31-80-107:~$ cd test
ubuntu@ip-172-31-80-107:~/test$ touch file1
ubuntu@ip-172-31-80-107:~/test$ ls
file1
ubuntu@ip-172-31-80-107:~/test$ touch file2 file3
ubuntu@ip-172-31-80-107:~/test$ ls
file1  file2  file3
ubuntu@ip-172-31-80-107:~/test$ rm file*
ubuntu@ip-172-31-80-107:~/test$ ls
ubuntu@ip-172-31-80-107:~/test$ cd ..
ubuntu@ip-172-31-80-107:~$ rmdir test
ubuntu@ip-172-31-80-107:~$ cd ..
ubuntu@ip-172-31-80-107:/home$ ls
ubuntu
ubuntu@ip-172-31-80-107:/home$ cd ubuntu
ubuntu@ip-172-31-80-107:~$ mkdir test1 test2 test3
ubuntu@ip-172-31-80-107:~$ ls
test1  test2  test3
```

EXPERIMENT 1B

Abcd







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

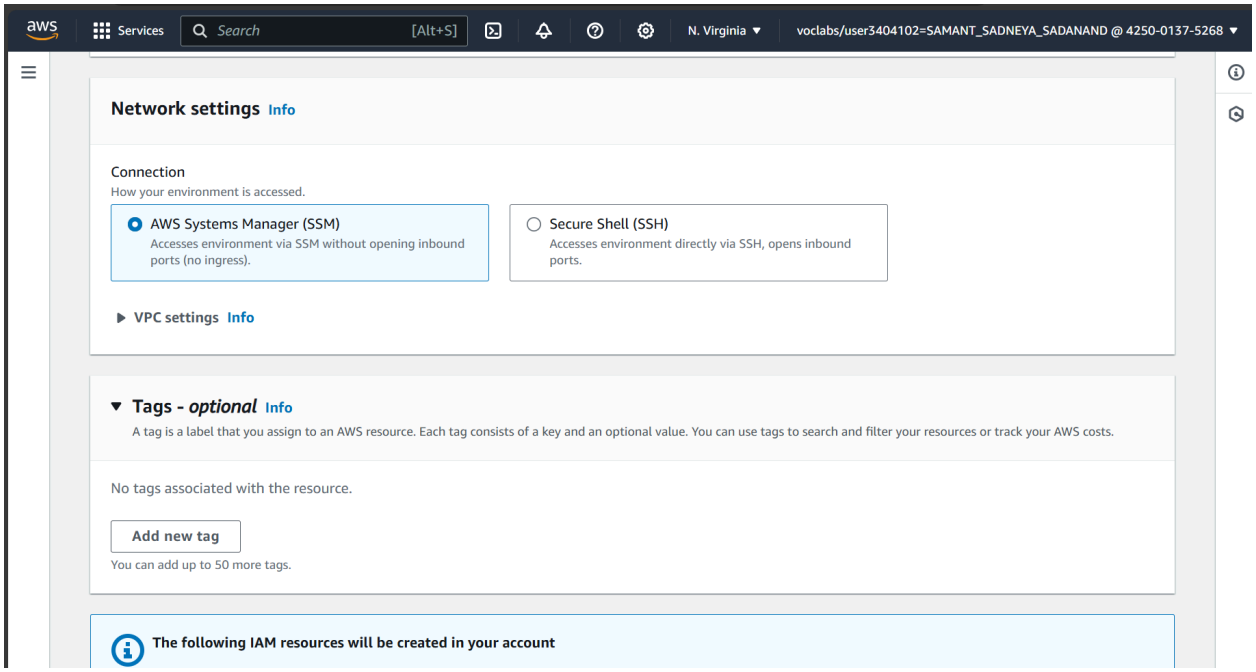
This will be installed on your EC2 instance. We recommend Amazon Linux 2023.

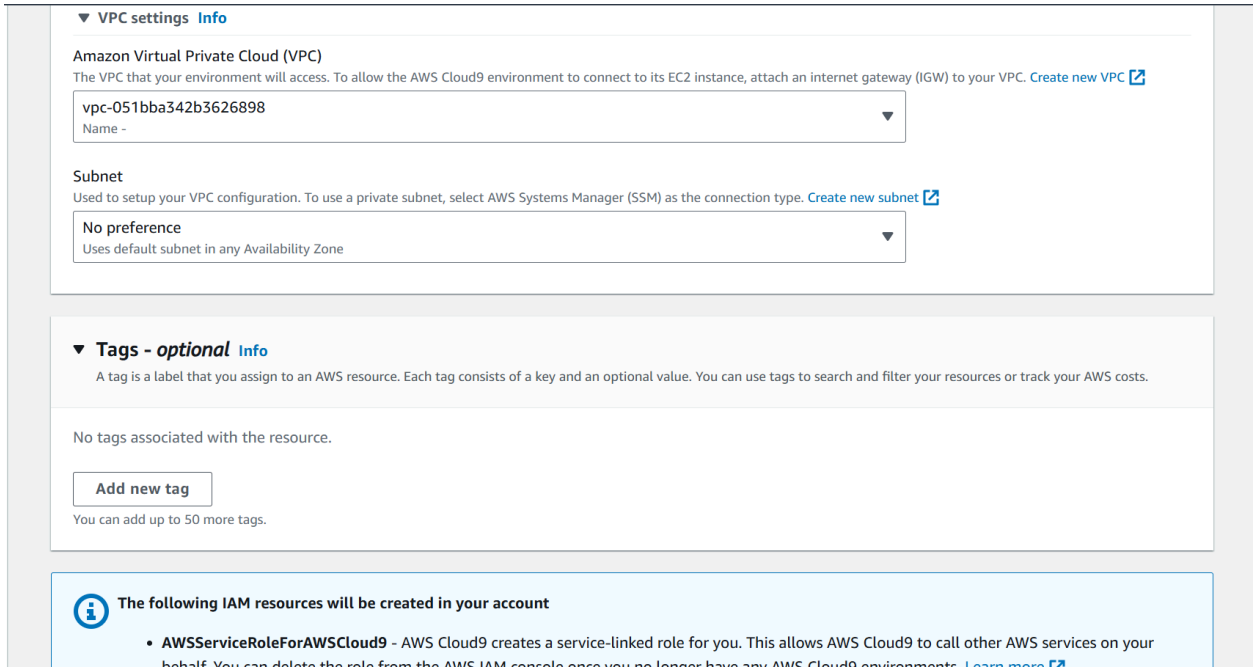
Amazon Linux 2023

Timeout

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

30 minutes


aws
Services
Search
[Alt+S]
N. Virginia
voclabs/user3404102=SAMANT_SADNEYA_SADANAND @ 4250-0137-5268
Network settings Info
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.
No tags associated with the resource.
Add new tag
You can add up to 50 more tags.
The following IAM resources will be created in your account


VPC settings Info
Amazon Virtual Private Cloud (VPC)
The VPC that your environment will access. To allow the AWS Cloud9 environment to connect to its EC2 instance, attach an internet gateway (IGW) to your VPC. Create new VPC
vpc-051bba342b3626898
Name -
Subnet
Used to setup your VPC configuration. To use a private subnet, select AWS Systems Manager (SSM) as the connection type. Create new subnet
No preference
Uses default subnet in any Availability Zone
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.
No tags associated with the resource.
Add new tag
You can add up to 50 more tags.
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

Network settings Info

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

Amazon Virtual Private Cloud (VPC)

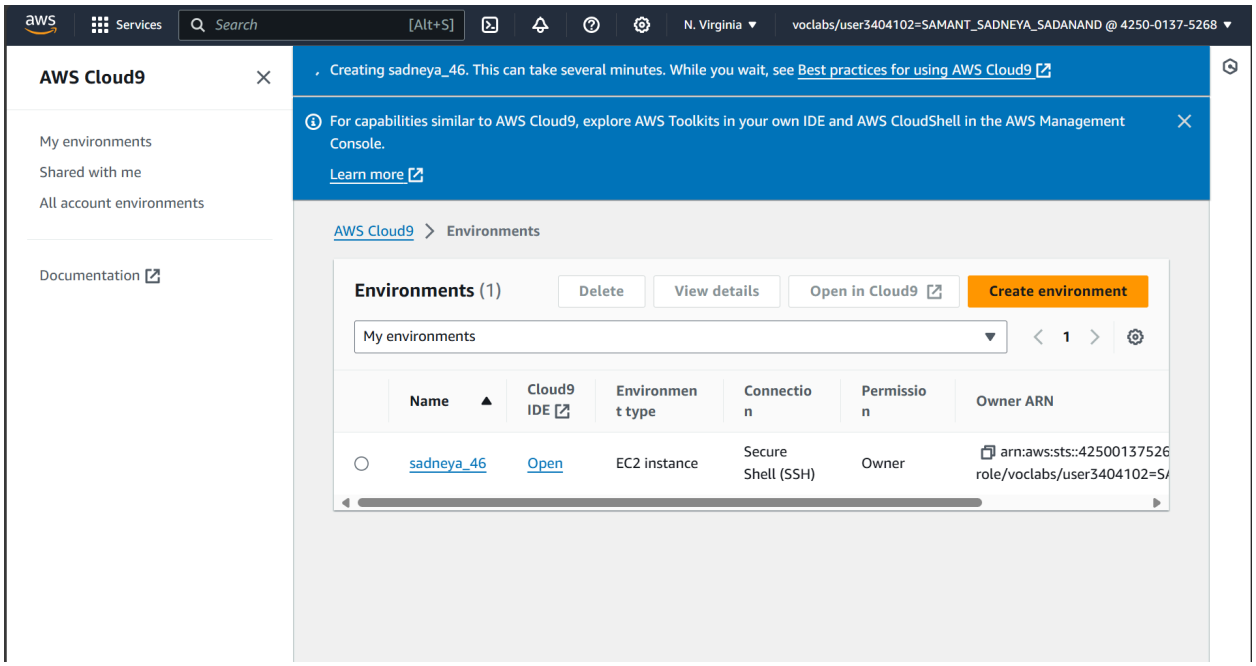
The VPC that your environment will access. To allow the AWS Cloud9 environment to connect to its EC2 instance, attach an internet gateway (IGW) to your VPC. Create new VPC

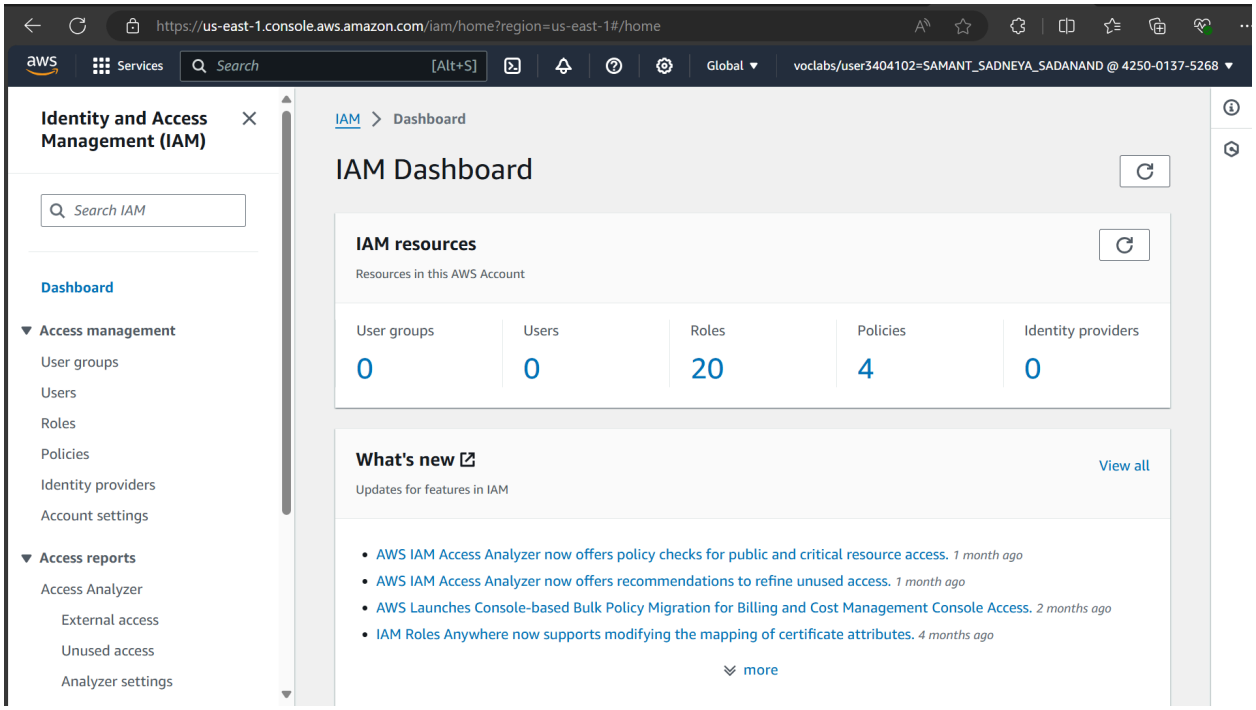
vpc-051bba342b3626898
Name -

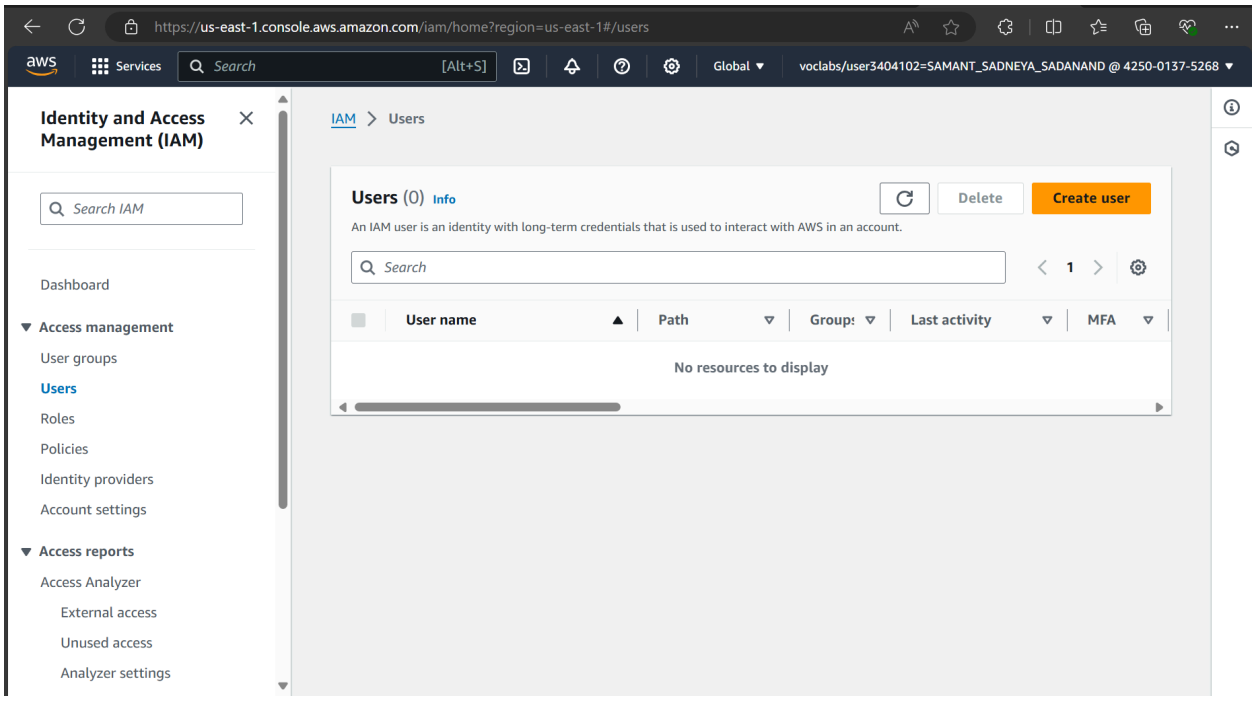
Subnet

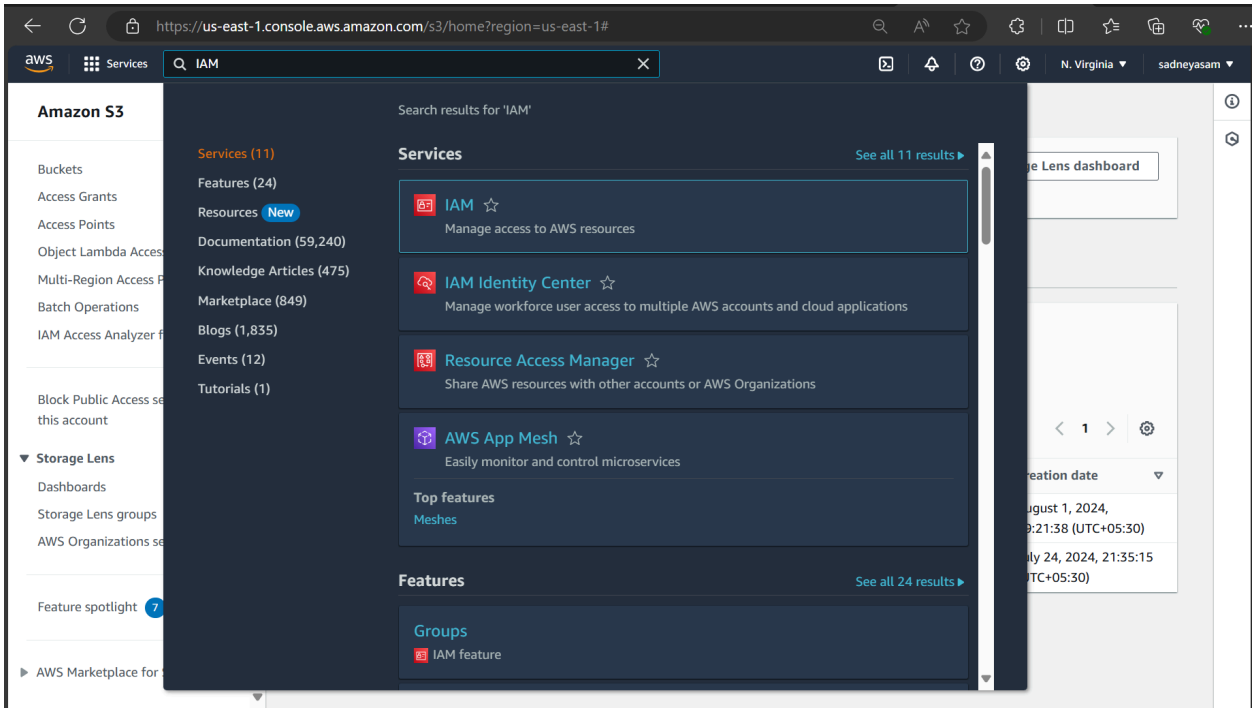
Used to setup your VPC configuration. To use a private subnet, select AWS Systems Manager (SSM) as the connection type. Create new subnet

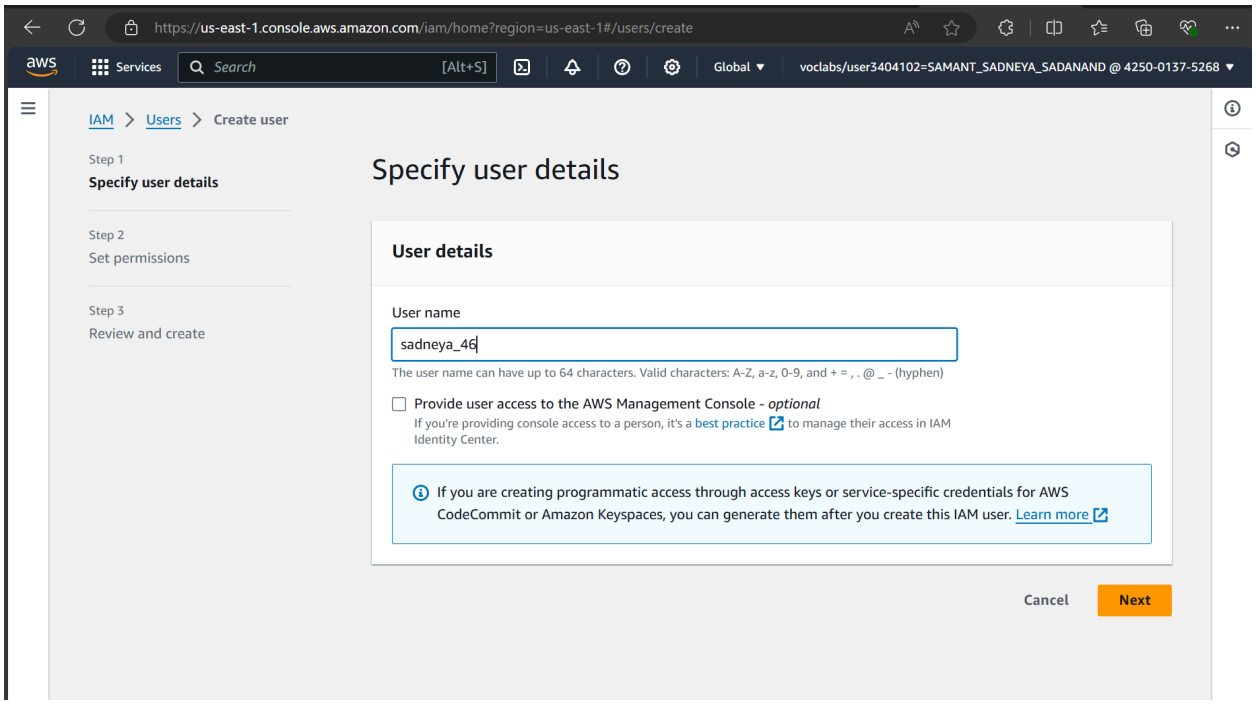
No preference
Uses default subnet in any Availability Zone

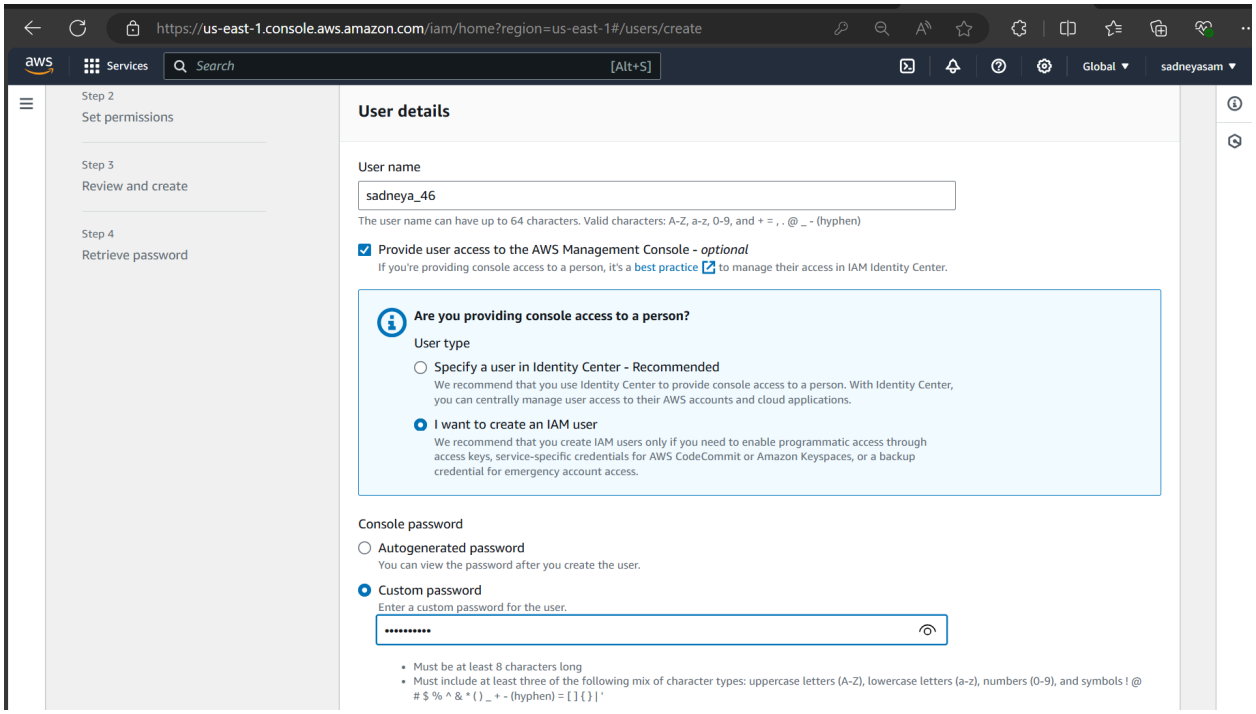


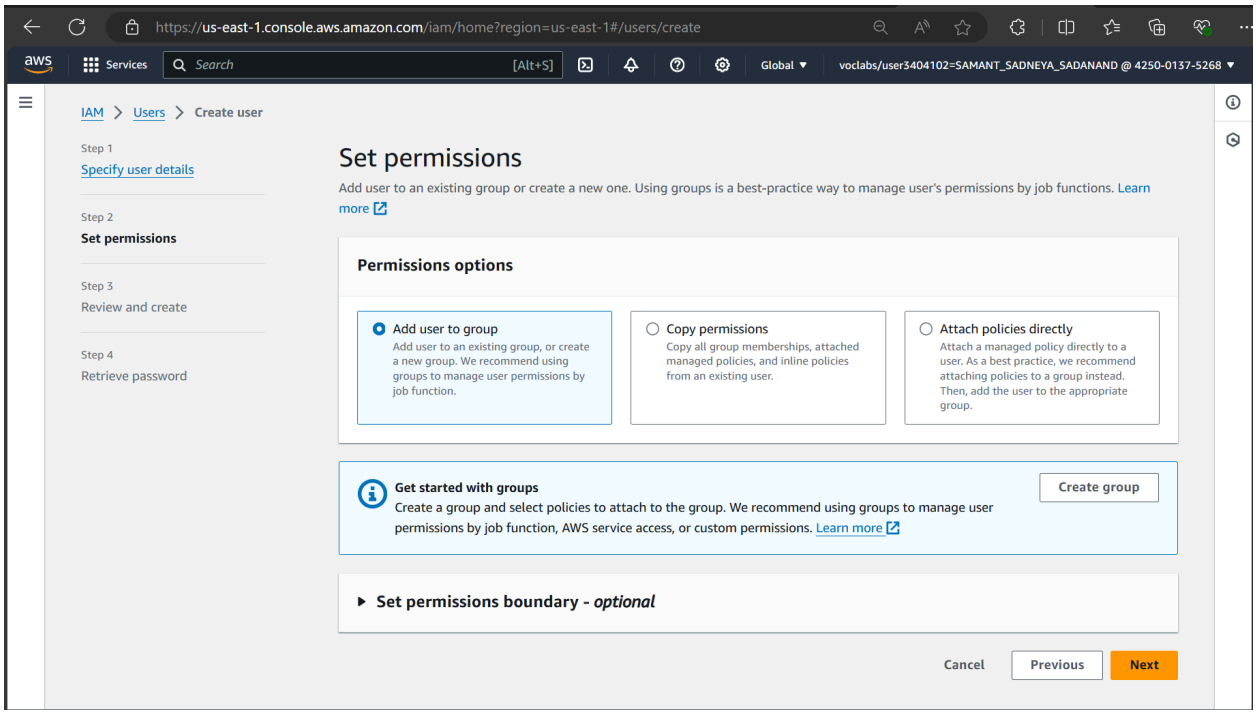

https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/home
aws
Services
Search
[Alt+S]
Global
voclabs/user3404102=SAMANT_SADNEYA_SADANAND @ 4250-0137-5268
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
IAM > Dashboard
IAM Dashboard
IAM resources
Resources in this AWS Account
User groups
0
Users
0
Roles
20
Policies
4
Identity providers
0
What's new
Updates for features in IAM
View all
AWS IAM Access Analyzer now offers policy checks for public and critical resource access. 1 month ago
AWS IAM Access Analyzer now offers recommendations to refine unused access. 1 month ago
AWS Launches Console-based Bulk Policy Migration for Billing and Cost Management Console Access. 2 months ago
IAM Roles Anywhere now supports modifying the mapping of certificate attributes. 4 months ago
more

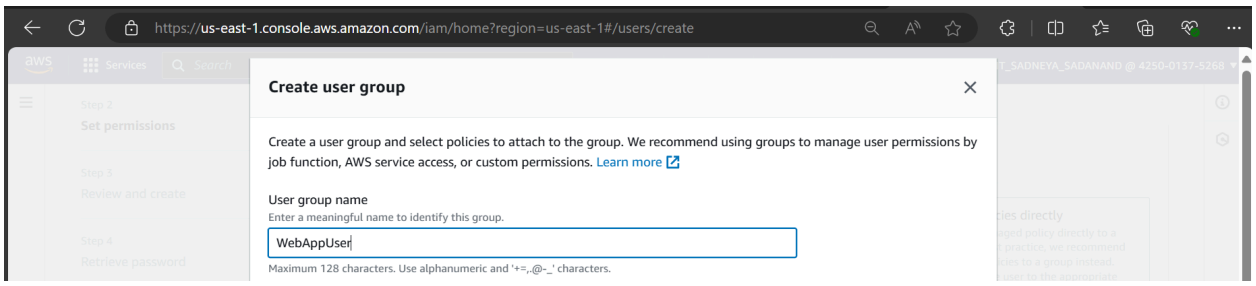

https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users
aws
Services
Search
[Alt+S]
Global
voclabs/user3404102=SAMANT_SADNEYA_SADANAND @ 4250-0137-5268
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
IAM > Users
Users (0) 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
User name
Path
Group:
Last activity
MFA
No resources to display

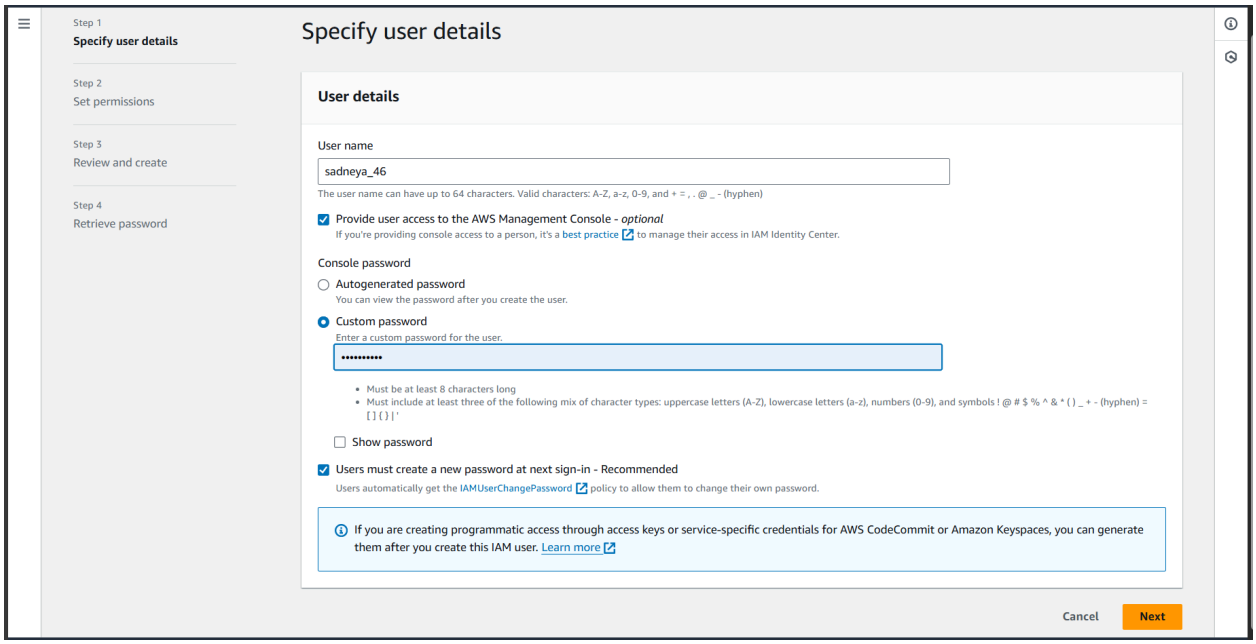

https://us-east-1.console.aws.amazon.com/s3/home?region=us-east-1#
Services
IAM
N. Virginia
sadneyasam
Amazon S3
Buckets
Access Grants
Access Points
Object Lambda Acces
Multi-Region Access P
Batch Operations
IAM Access Analyzer f
Block Public Access se
this account
Storage Lens
Dashboards
Storage Lens groups
AWS Organizations se
Feature spotlight
AWS Marketplace for
Search results for 'IAM'
Services (11)
Features (24)
Resources New
Documentation (59,240)
Knowledge Articles (475)
Marketplace (849)
Blogs (1,835)
Events (12)
Tutorials (1)
Services
See all 11 results
IAM
Manage access to AWS resources
IAM Identity Center
Manage workforce user access to multiple AWS accounts and cloud applications
Resource Access Manager
Share AWS resources with other accounts or AWS Organizations
AWS App Mesh
Easily monitor and control microservices
Top features
Meshes
Features
See all 24 results
Groups
IAM feature
e Lens dashboard
1
reation date
ugust 1, 2024,
:21:38 (UTC+05:30)
ly 24, 2024, 21:35:15
TC+05:30)


https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create
Services
Search
[Alt+S]
Global
voclabs/user3404102=SAMANT_SADNEYA_SADANAND @ 4250-0137-5268
IAM > Users > Create user
Step 1
Specify user details
Step 2
Set permissions
Step 3
Review and create
Specify user details
User details
User name
sadneya_46
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
Cancel
Next


https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create
Services
Search
[Alt+S]
Global
sadneyasam
Step 2
Set permissions
Step 3
Review and create
Step 4
Retrieve password
User details
User name
sadneya_46
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) = [ ] { } | '


https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create
Services
Search
[Alt+S]
Global
voclabs/user3404102=SAMANT_SADNEYA_SADANAND @ 4250-0137-5268
IAM
Users
Create user
Step 1
Specify user details
Step 2
Set permissions
Step 3
Review and create
Step 4
Retrieve password
Set permissions
Add user to 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


https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create
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.
WebAppUser
Maximum 128 characters. Use alphanumeric and '+=,.@-_' characters.


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
sadneya_46
The user name can have up to 64 characters. Valid characters: A-Z, a-z, 0-9, and + = , . @ _ - (hyphen)
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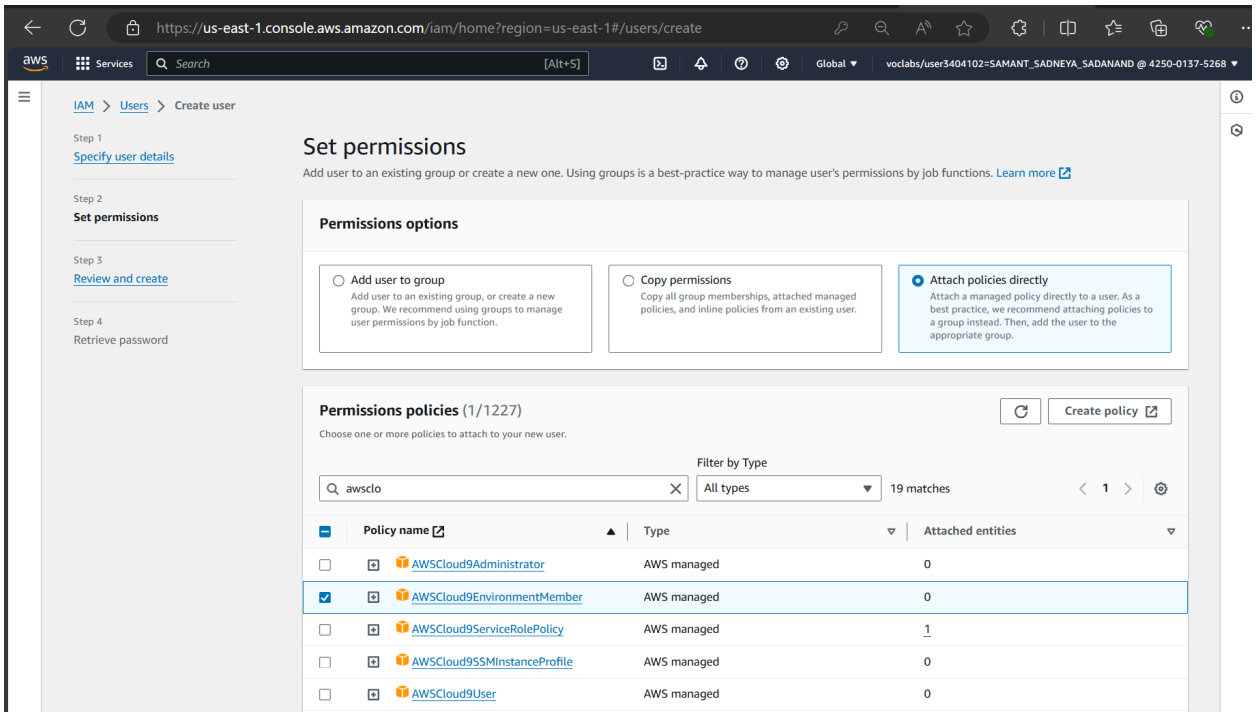
Must include at least three of the following mix of character types: uppercase letters (A-Z), lowercase letters (a-z), numbers (0-9), and symbols ! @ # $ % ^ & * ( ) _ + - (hyphen) = [ ] { } | '
Show password
Users must create a new password at next sign-in - Recommended
Users automatically get the IAMUserChangePassword 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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Search
[Alt+S]
Global
voclabs/user3404102=SAMANT_SADNEYA_SADANAND @ 4250-0137-5268
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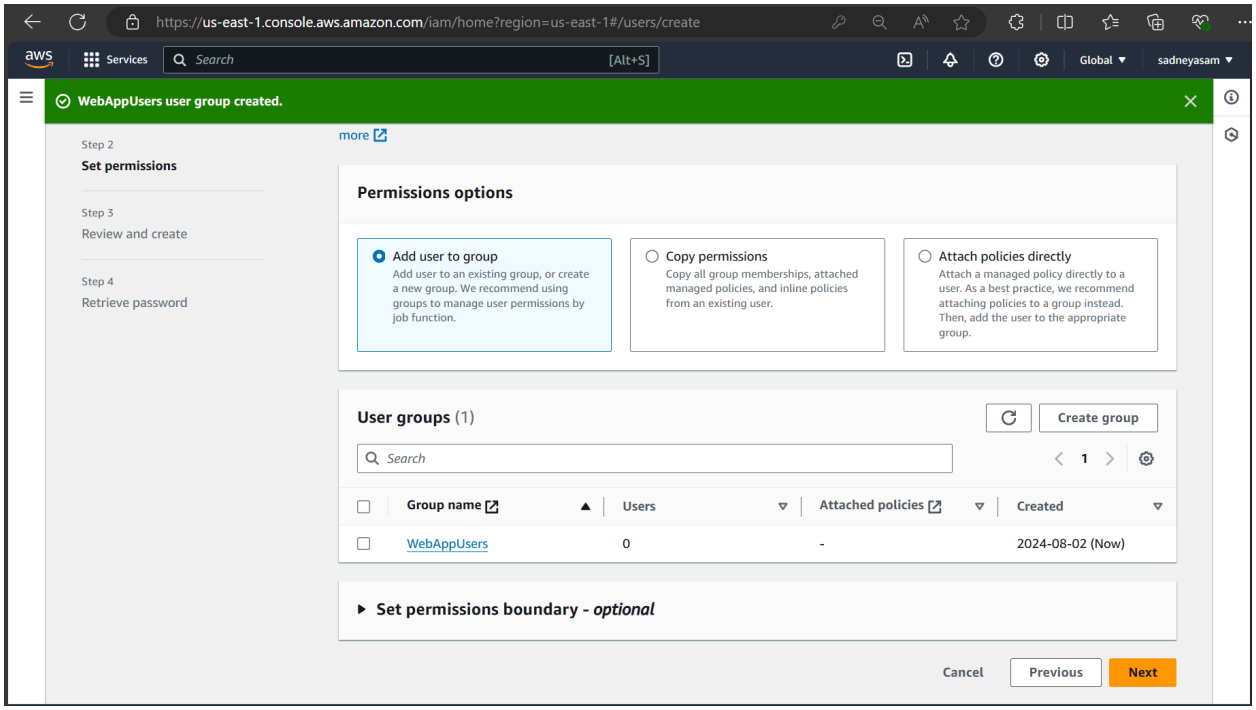
Permissions policies (1/1227)
Choose one or more policies to attach to your new user.
Create policy
Filter by Type
awsclo
All types
19 matches
1
Policy name
Type
Attached entities
AWSCloud9Administrator
AWS managed
0
AWSCloud9EnvironmentMember
AWS managed
0
AWSCloud9ServiceRolePolicy
AWS managed
1
AWSCloud9SSMInstanceProfile
AWS managed
0
AWSCloud9User
AWS managed
0


https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create
Services
Search
[Alt+S]
Global
sadneyasam
WebAppUsers user group created.
Step 2
Set permissions
Step 3
Review and create
Step 4
Retrieve password
more
Permissions options
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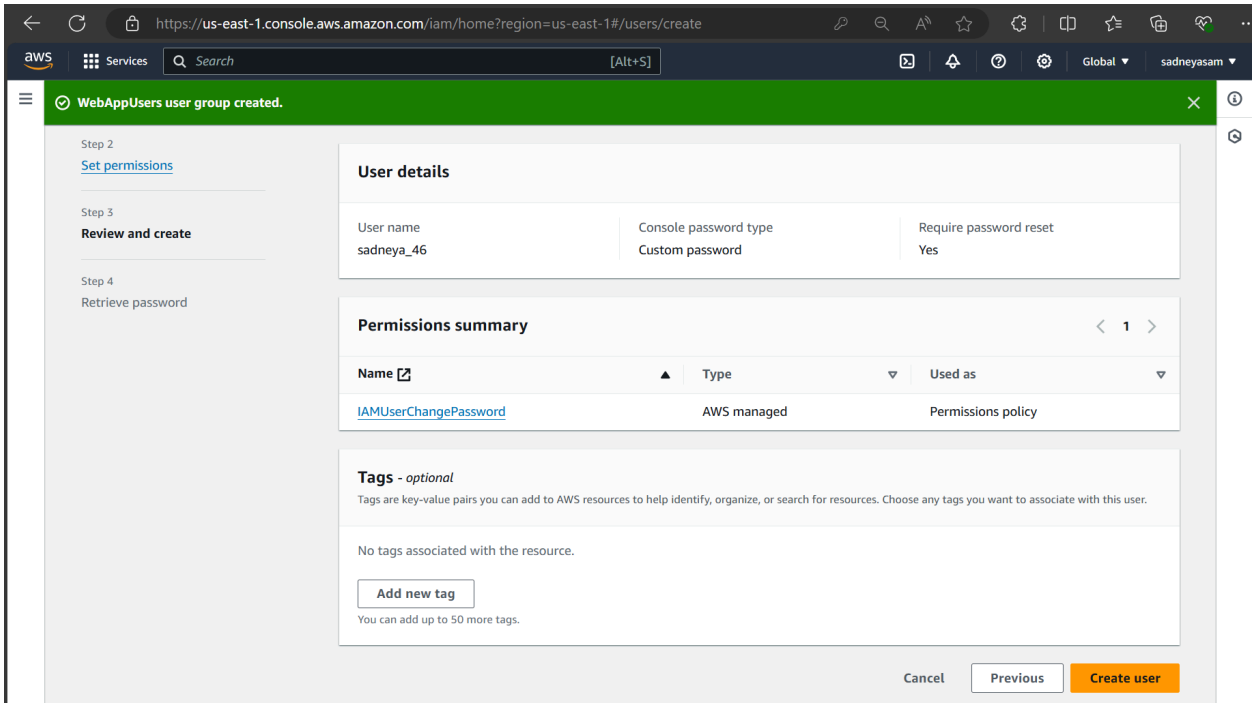
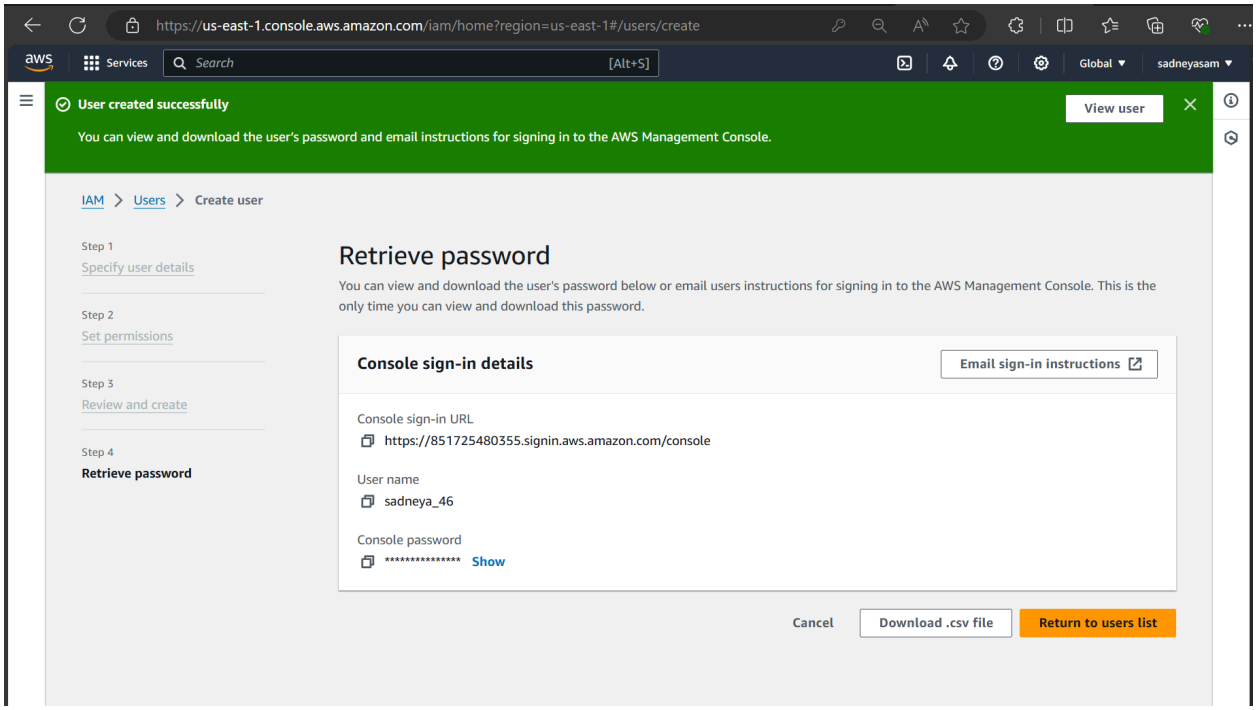
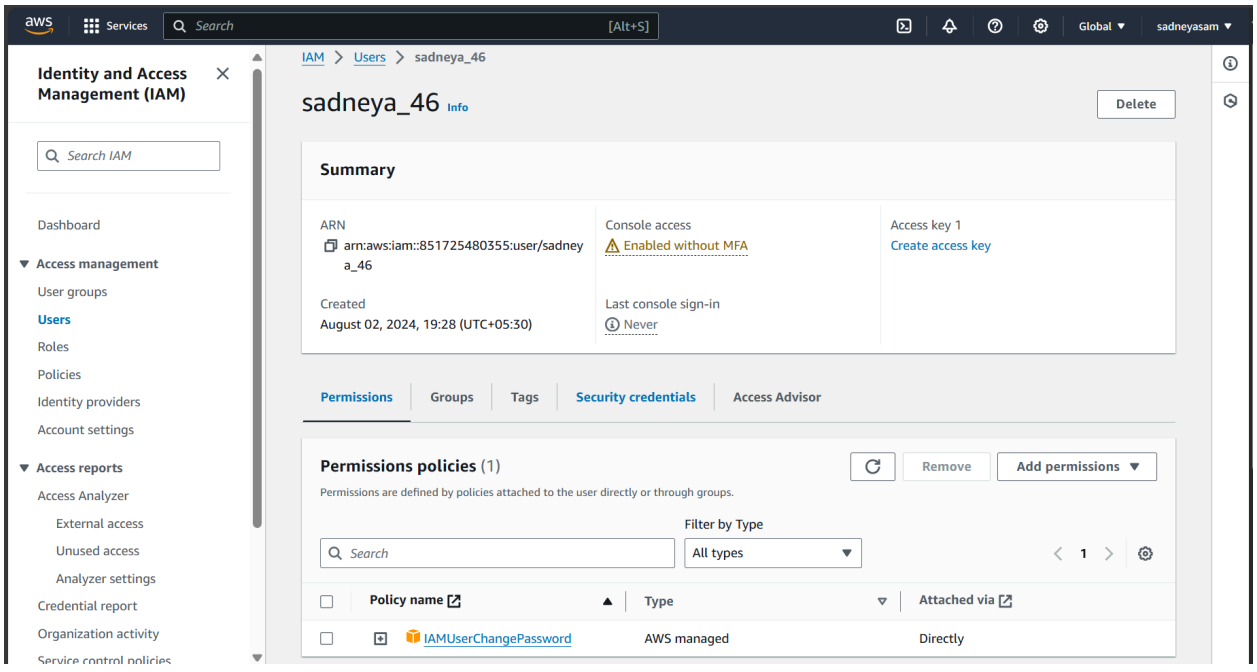
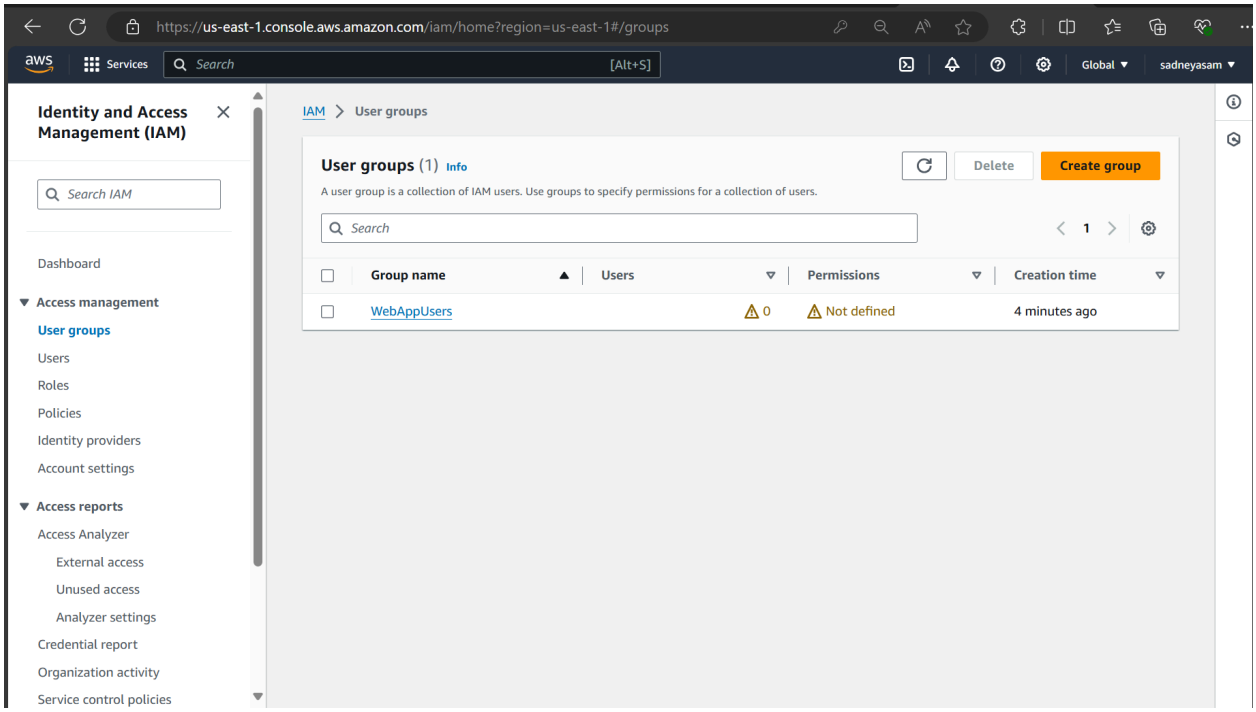
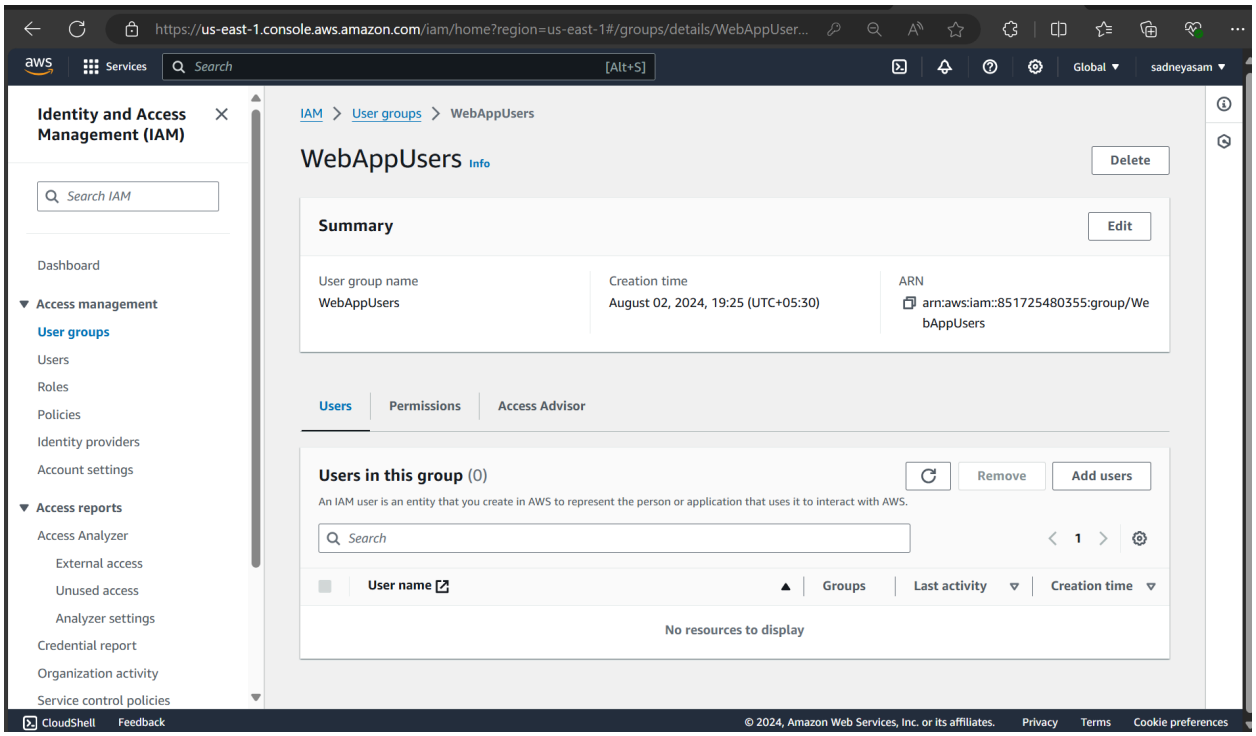
User groups (1)
Create group
Search
1
Group name
Users
Attached policies
Created
WebAppUsers
0
-
2024-08-02 (Now)
Set permissions boundary - optional
Cancel
Previous
Next


https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create
Services
Search
[Alt+S]
Global
sadneyasam
WebAppUsers user group created.
Step 2
Set permissions
Step 3
Review and create
Step 4
Retrieve password
User details
User name
sadneya_46
Console password type
Custom password
Require password reset
Yes
Permissions summary
1
Name
Type
Used as
IAMUserChangePassword
AWS managed
Permissions policy
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


https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/users/create
Services
Search
[Alt+S]
Global
sadneyasam
User created successfully
You can view and download the user's password and email instructions for signing in to the AWS Management Console.
View user
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://851725480355.signin.aws.amazon.com/console
User name
sadneya_46
Console password
********** Show
Cancel
Download .csv file
Return to users list


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
IAM > Users > sadneya_46
sadneya_46 Info
Delete
Summary
ARN
arn:aws:iam::851725480355:user/sadneya_46
Console access
Enabled without MFA
Access key 1
Create access key
Created
August 02, 2024, 19:28 (UTC+05:30)
Last console sign-in
Never
Permissions
Groups
Tags
Security credentials
Access Advisor
Permissions policies (1)
Permissions are defined by policies attached to the user directly or through groups.
Remove
Add permissions
Filter by Type
Search
All types
Policy name
Type
Attached via
IAMUserChangePassword
AWS managed
Directly


https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/groups
aws
Services
Search
[Alt+S]
Global
sadneyasam
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
IAM > User groups
User groups (1) Info
A user group is a collection of IAM users. Use groups to specify permissions for a collection of users.
Delete
Create group
Search
1
Group name
Users
Permissions
Creation time
WebAppUsers
0
Not defined
4 minutes ago


https://us-east-1.console.aws.amazon.com/iam/home?region=us-east-1#/groups/details/WebAppUser...
aws
Services
Search
[Alt+S]
Global
sadneyasam
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
IAM > User groups > WebAppUsers
WebAppUsers Info
Delete
Summary
Edit
User group name
WebAppUsers
Creation time
August 02, 2024, 19:25 (UTC+05:30)
ARN
arn:aws:iam::851725480355:group/WebAppUsers
Users
Permissions
Access Advisor
Users in this group (0)
An IAM user is an entity that you create in AWS to represent the person or application that uses it to interact with AWS.
Remove
Add users
Search
1
User name
Groups
Last activity
Creation time
No resources to display
CloudShell
Feedback
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Privacy
Terms
Cookie preferences