

EXPERIMENT NO.1

Name: Bhagyesh patil

Class:D15A

Roll No:36

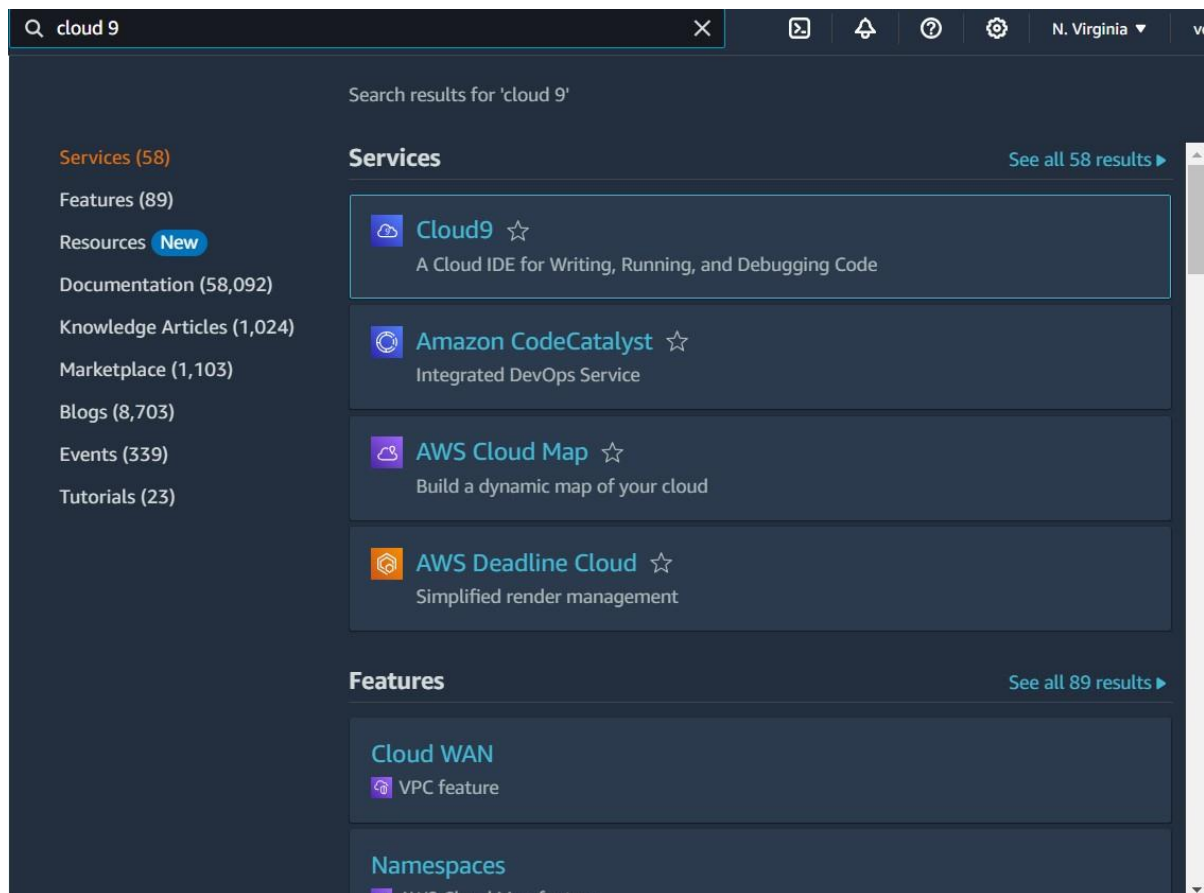
Aim:

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

➤ Hosting using Cloud 9

Steps :-

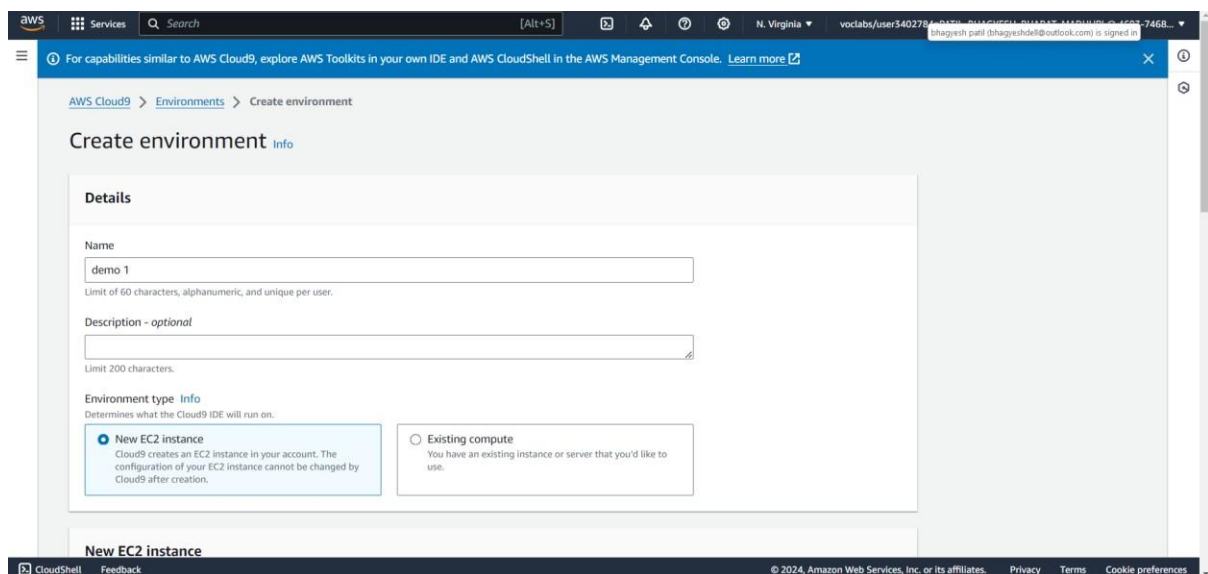
1. Login with your AWS account.
2. Search for Cloud9 under the list of services in the search menu.



3. In the Cloud9 Console, click on Create Environment



4. Proceed after entering a name for your environment



5. Proceed with default settings

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 2

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.

- ☐ **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-0d1a32243f7082871

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.

6. Click on the AWS nav logo or open up the AWS console in a new tab and search for IAM. The IAM console opens up

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

Users (0) Info

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

Search

User name	Path	Group	Last activity	MFA	Password age	Console last sign-in
No resources to display						

1

Create user

7. Create a new user

The screenshot shows the 'Specify user details' step of the AWS IAM 'Create user' process. The 'User name' field contains 'testuser'. The 'Provide user access to the AWS Management Console - optional' checkbox is checked. Under 'Console password', the 'Custom password' option is selected with the password 'Bbpatil'. The 'Show password' checkbox is also checked. The footer shows the AWS logo, 'CloudShell', 'Feedback', and copyright information for 2024.

aws Services Search [Alt+S] Global voclabs/user3402784=PATIL_BHAGYESH_BHARAT_MADHURI @ 4693-7468...

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

testuser

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.

Console password

☐ Autogenerated password
You can view the password after you create the user.

☒ Custom password
Enter a custom password for the user.

Bbpatil

- 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.

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8. Set as it is

The screenshot shows the 'Review and create' step of the AWS IAM 'Create user' process. It displays a summary of the user details: 'testuser' with a 'Custom password' and 'Require password reset' set to 'No'. Below this is a 'Permissions summary' section showing 'No resources'. The 'Tags - optional' section is empty. The footer shows the AWS logo, 'CloudShell', 'Feedback', and copyright information for 2024.

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IAM > Users > Create user

Step 1
[Specify user details](#)

Step 2
[Set permissions](#)

Step 3
Review and create

Step 4
Retrieve password

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
testuser	Custom password	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.

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The screenshot shows the AWS Cloud9 'Environments' page. A green notification banner at the top states 'Successfully created demo 1. To get the most out of your environment, see Best practices for using AWS Cloud9'. Below this, the 'demo 1' environment is listed with details: 'demo 1', 'Open', 'EC2 instance', 'Secure Shell (SSH)', 'Owner', and 'arn:aws:sts:469374688417:assumed-role/voclabs/user3402784=PATIL_BHAGYESH_BHARAT_MADHURI'. The footer shows the AWS logo, 'CloudShell', 'Feedback', and copyright information for 2024.

aws Services Search [Alt+S] N. Virginia voclabs/user3402784=PATIL_BHAGYESH_BHARAT_MADHURI @ 4693-7468...

AWS Cloud9

My environments

Shared with me

All account environments

Documentation

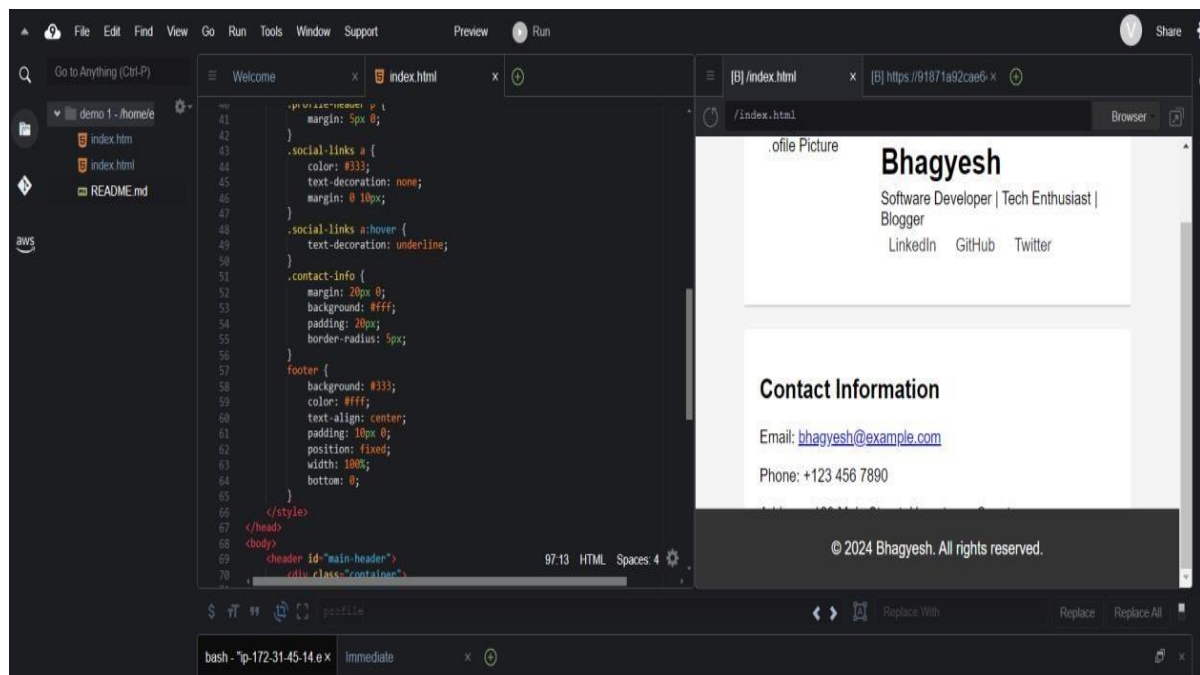
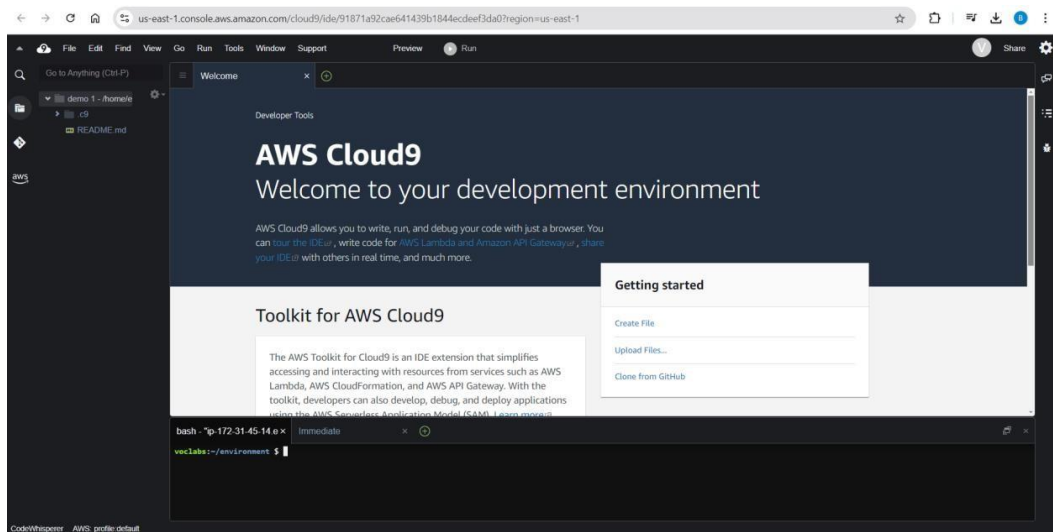
Environments (1)

Delete View details Open in Cloud9 Create environment

My environments

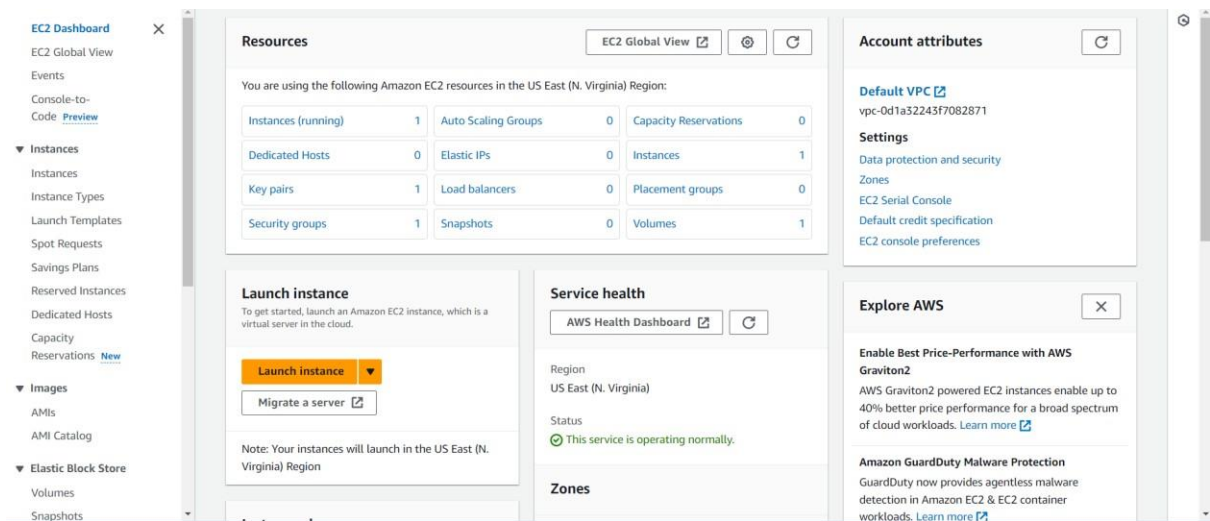
Name	Cloud9 IDE	Environment type	Connection	Permission	Owner ARN
demo 1	Open	EC2 instance	Secure Shell (SSH)	Owner	arn:aws:sts:469374688417:assumed-role/voclabs/user3402784=PATIL_BHAGYESH_BHARAT_MADHURI

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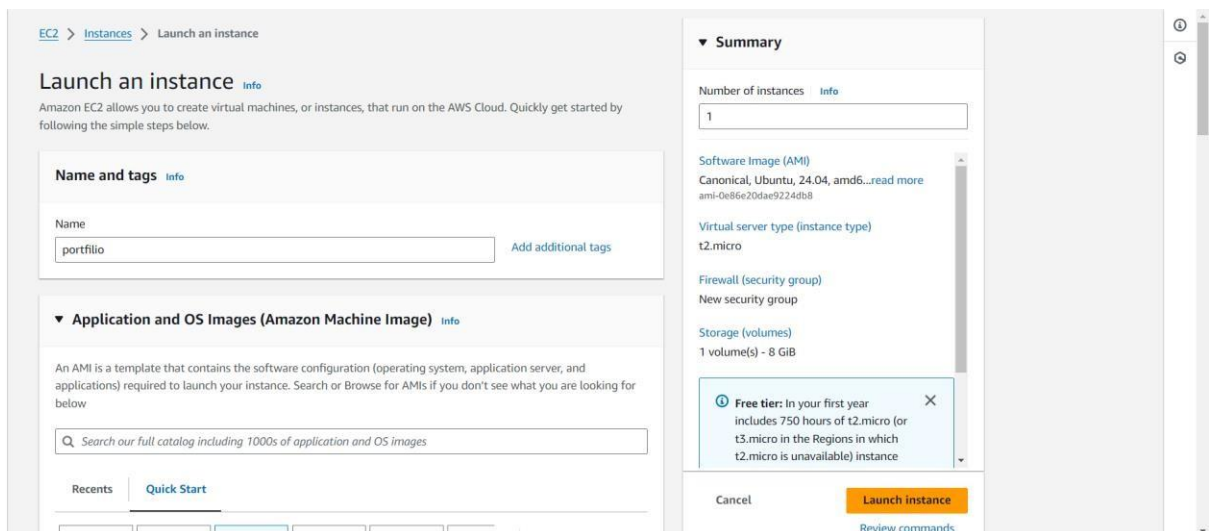


➤ Hosting using EC2 INSTANCE

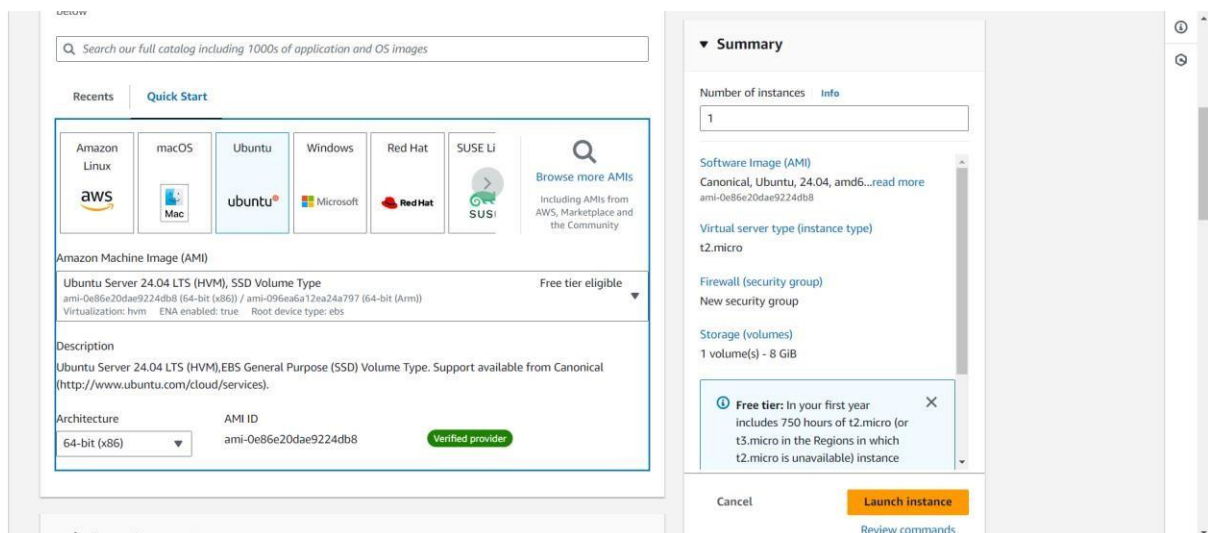
1. Click on the Ec2 instance and configure



2. Give the name of the environment



3. . Select the os



4. Select the key

▼ Instance type [Info](#) | [Get advice](#)

Instance type

t2.micro Free tier eligible

Family: t2 1 vCPU 1 GiB Memory Current generation: true

On-Demand Windows base pricing: 0.0162 USD per Hour

On-Demand SUSE base pricing: 0.0116 USD per Hour

On-Demand RHEL base pricing: 0.026 USD per Hour

On-Demand Linux base pricing: 0.0116 USD per Hour

[Additional costs apply for AMIs with pre-installed software](#)

☒ All generations [Compare instance types](#)

▼ Key pair (login) [Info](#)

You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - required

vockey [Create new key pair](#)

▼ Network settings [Info](#) [Edit](#)

Network [Info](#)

▼ Summary

Number of instances [Info](#)

1

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel [Launch instance](#) [Review commands](#)

5. Set as the default

▼ Network settings [Info](#) [Edit](#)

Network [Info](#)

vpc-0d1a32243f7082871

Subnet [Info](#)

No preference (Default subnet in any availability zone)

Auto-assign public IP [Info](#)

Enable

[Additional charges apply when outside of free tier allowance](#)

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

☒ Create security group ☐ Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

☒ Allow SSH traffic from [Helps you connect to your instance.](#) Anywhere 0.0.0.0/0

☐ Allow HTTPS traffic from the internet [To set up an endpoint, for example when creating a web server.](#)

☐ Allow HTTP traffic from the internet [To set up an endpoint, for example when creating a web server.](#)

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting restrictive rules to allow access from known IP addresses only.

▼ Summary

Number of instances [Info](#)

1

Firewall (security group)

New security group

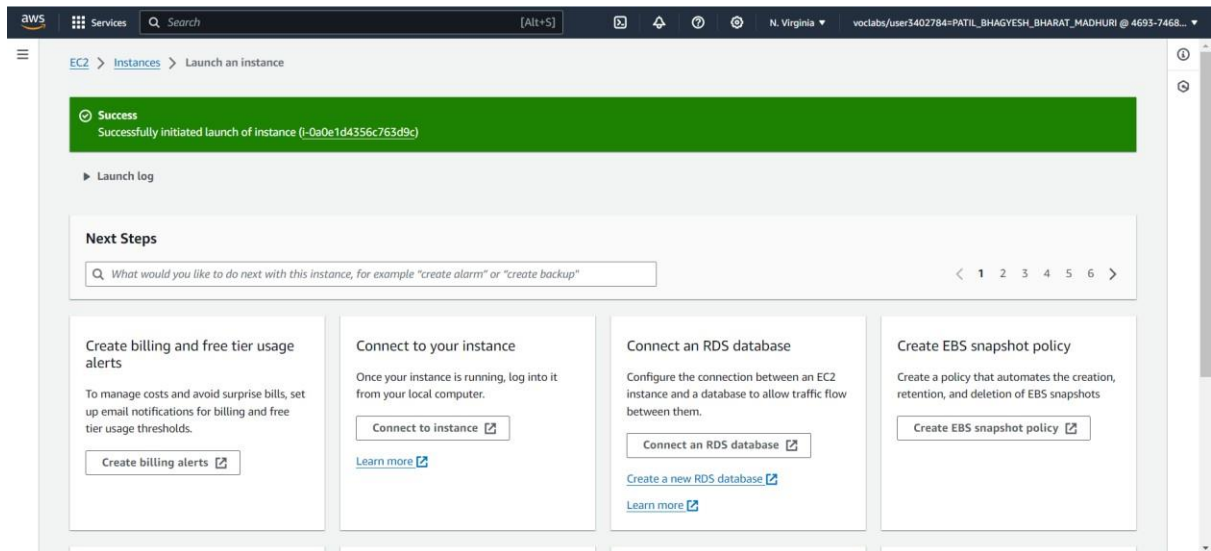
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Cancel [Launch instance](#) [Review commands](#)

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```
See "man sudo_root" for details.

ubuntu@ip-172-31-36-118:~$ :/home/ubuntu# apt install apache2
-bash: :/home/ubuntu#: No such file or directory
ubuntu@ip-172-31-36-118:~$ cls
Command 'cls' not found, but there are 20 similar ones.
ubuntu@ip-172-31-36-118:~$ sudo su
root@ip-172-31-36-118:/home/ubuntu# apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
The following additional packages will be installed:
  apache2-bin apache2-data apache2-utils libapr1t64 libaprutil1-dbd-sqlite3
  libaprutil1-ldap libaprutil1t64 liblua5.4-0 ssl-cert
Suggested packages:
  apache2-doc apache2-suexec-pristine | apache2-suexec-custom www-browser
```

Bhagyesh Real Estate

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About Us

Welcome to Bhagyesh Real Estate!

At Bhagyesh Real Estate, we are more than just real estate agents – we are your dedicated partners in finding the perfect property. Whether you're buying your first home, searching for an investment opportunity, or looking to sell your current property, our team is here to guide you every step of the way.

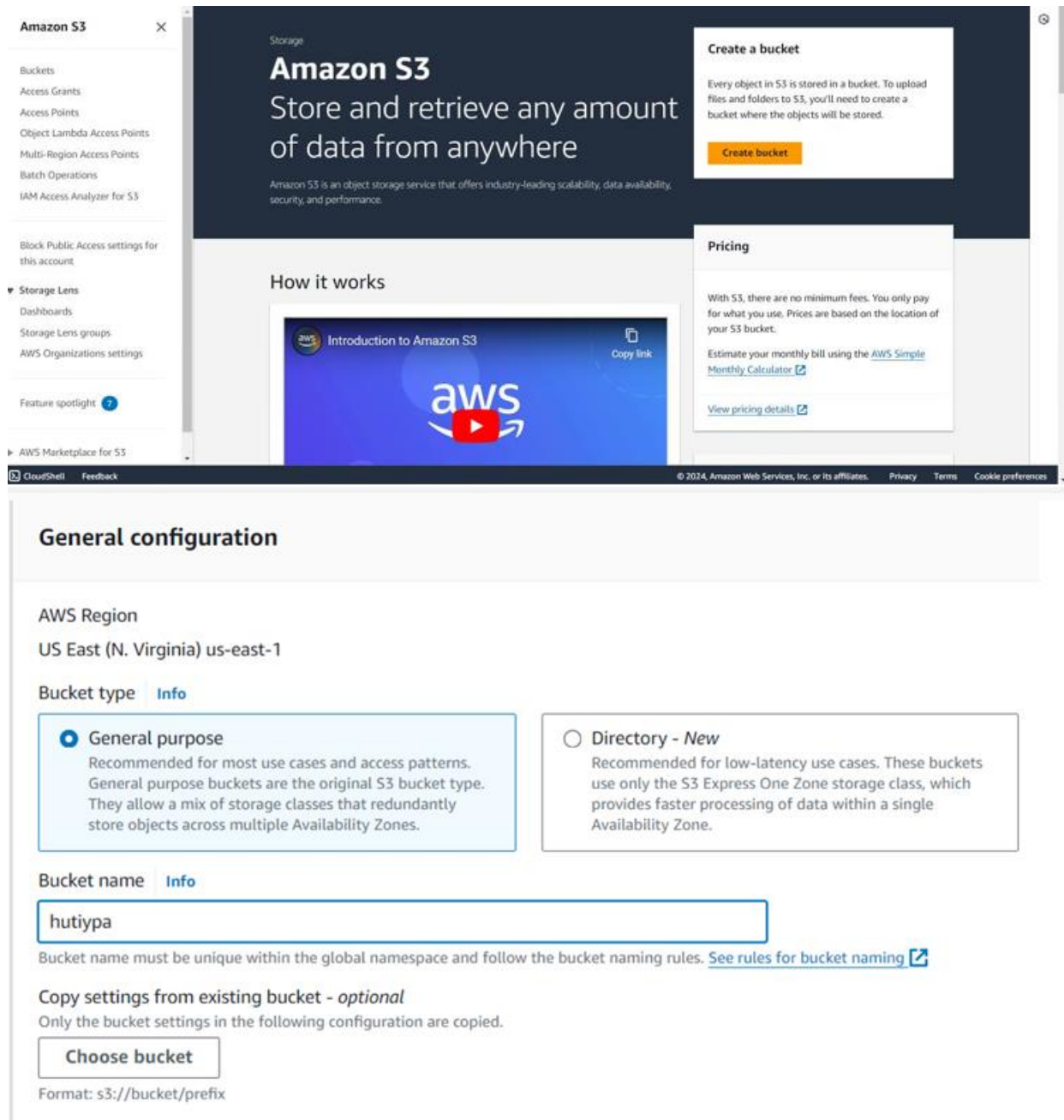
Our Mission

Our mission is to deliver unparalleled real estate services with integrity, professionalism, and a personal touch. We believe that every client deserves personalized attention and expert advice, and we are committed to making your real estate experience smooth and successful.

Our Story

Founded in [2024], Bhagyesh Real Estate started with a simple yet powerful vision: to redefine the real estate experience. With deep roots in [Your City/Region], we have built a reputation for excellence through hard work, dedication, and a passion for helping our clients achieve their real estate goals.

➤ Hosting Using s3 bucket



Amazon S3

Storage

Amazon S3

Store and retrieve any amount of data from anywhere

Amazon S3 is an object storage service that offers industry-leading scalability, data availability, security, and performance.

Create a bucket

Every object in S3 is stored in a bucket. To upload files and folders to S3, you'll need to create a bucket where the objects will be stored.

[Create bucket](#)

Pricing

With S3, there are no minimum fees. You only pay for what you use. Prices are based on the location of your S3 bucket.

Estimate your monthly bill using the [AWS Simple Monthly Calculator](#)

[View pricing details](#)

How it works

Introduction to Amazon S3

[Copy link](#)

General configuration

AWS Region
US East (N. Virginia) us-east-1

Bucket type [Info](#)

- ☒ **General purpose**
Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.
- ☐ **Directory - New**
Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.

Bucket name [Info](#)

Bucket name must be unique within the global namespace and follow the bucket naming rules. [See rules for bucket naming](#)

Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.

[Choose bucket](#)

Format: s3://bucket/prefix

Object Ownership [Info](#)

Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.

☒ **ACLs disabled (recommended)**

All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.

☐ **ACLs enabled**

Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.

Object Ownership
Bucket owner enforced

Block Public Access settings for this bucket

Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)

☒ **Block all public access**

Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.

☒ **Block public access to buckets and objects granted through new access control lists (ACLs)**

S3 will block public access permissions applied to newly added buckets or objects, and prevent the creation of new public access.

Encryption type [Info](#)

☒ **Server-side encryption with Amazon S3 managed keys (SSE-S3)**

☐ **Server-side encryption with AWS Key Management Service keys (SSE-KMS)**

☐ **Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS)**

Secure your objects with two separate layers of encryption. For details on pricing, see [DSSE-KMS pricing](#) on the [Storage](#) tab of the [Amazon S3 pricing page](#).


Bucket Key

Using an S3 Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AWS KMS. S3 Bucket Keys aren't supported for DSSE-KMS. [Learn more](#)

☐ **Disable**

☒ **Enable**

► Advanced settings

 After creating the bucket, you can upload files and folders to the bucket, and configure additional bucket settings.










Cancel

Create bucket

hutypa Info




Objects | Properties | Permissions | Metrics | Management | Access Points

Objects (2) Info

  Copy S3 URI  Copy URL  Download  Open  Delete  Actions  Create folder  Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

< 1 > 










	Name	Type	Last modified	Size	Storage class
<input checked="" type="checkbox"/>	 chutiya/	Folder	-	-	-
<input type="checkbox"/>	 index.html	html	August 8, 2024, 14:38:58 (UTC+05:30)	2.2 KB	Standard

chutiya/

 Copy S3 URI


Objects | Properties

Objects (1) Info

  Copy S3 URI  Copy URL  Download  Open  Delete  Actions  Create folder  Upload

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< 1 > 

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	 index.html	html	August 8, 2024, 14:38:59 (UTC+05:30)	2.2 KB	Standard

About This Page

This is a simple and elegant web page designed with a modern and clean UI. The layout includes a header, a content area, and a footer, all styled to provide a pleasant user experience.

[Learn More](#)