

ADVANCE DEVOPS EXPERIMENTNO.1

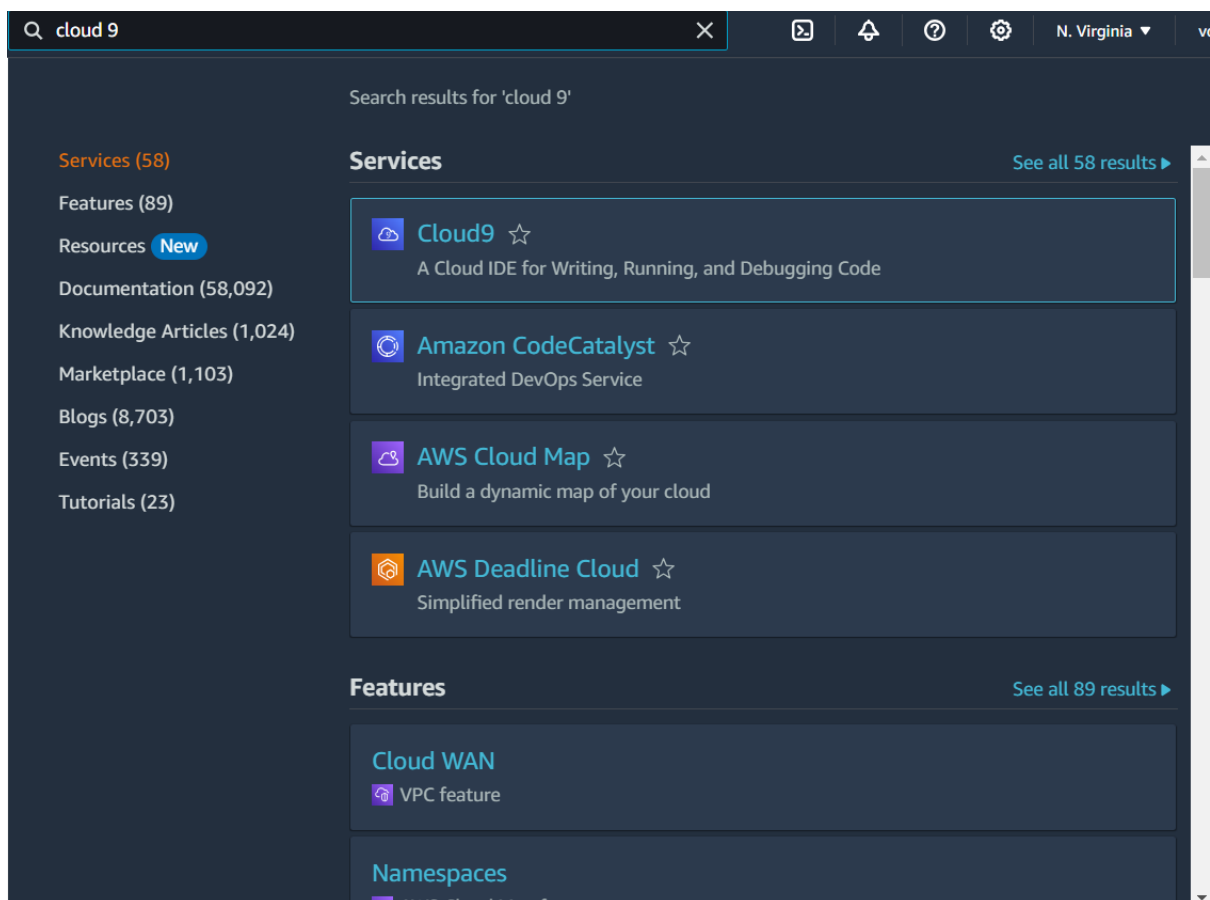
Name: Bhagyesh patil

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



aws

Services

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N. Virginia

voclabs/user\$402784=PATHIL_BHAGYESH_BHARAT_MADHURI @ 4693-7468...

bhagadesh patil (bhagadeshpatil@outlook.com) is signed in

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

demo 1

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

CloudShellFeedback

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

Create environment [Info](#)

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-Od1a32243f7082871

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

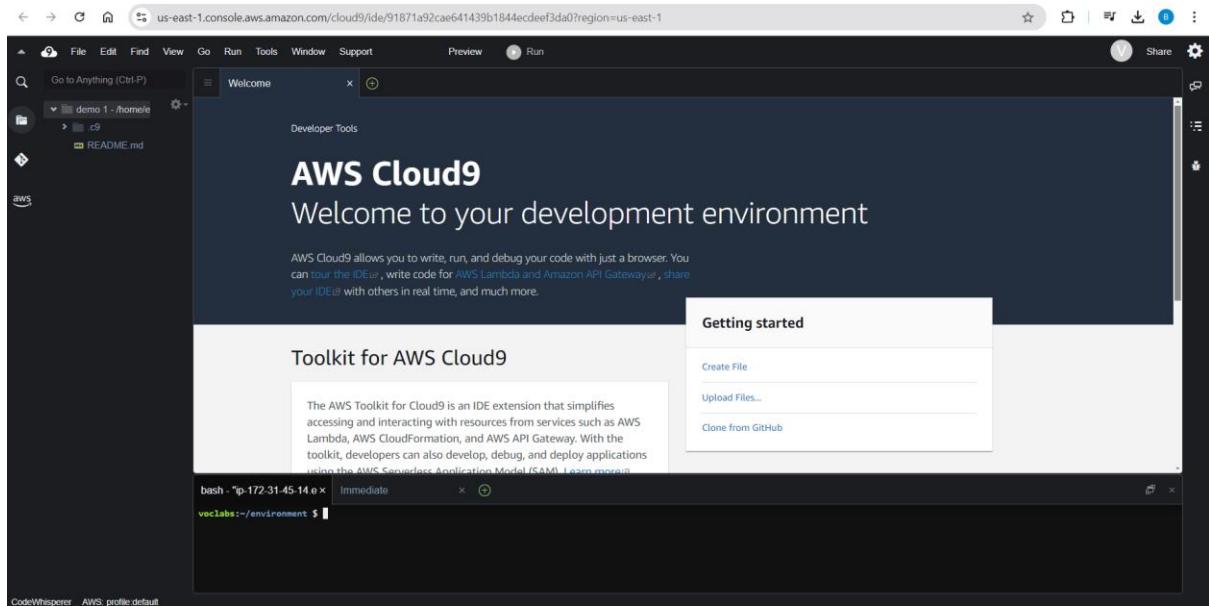
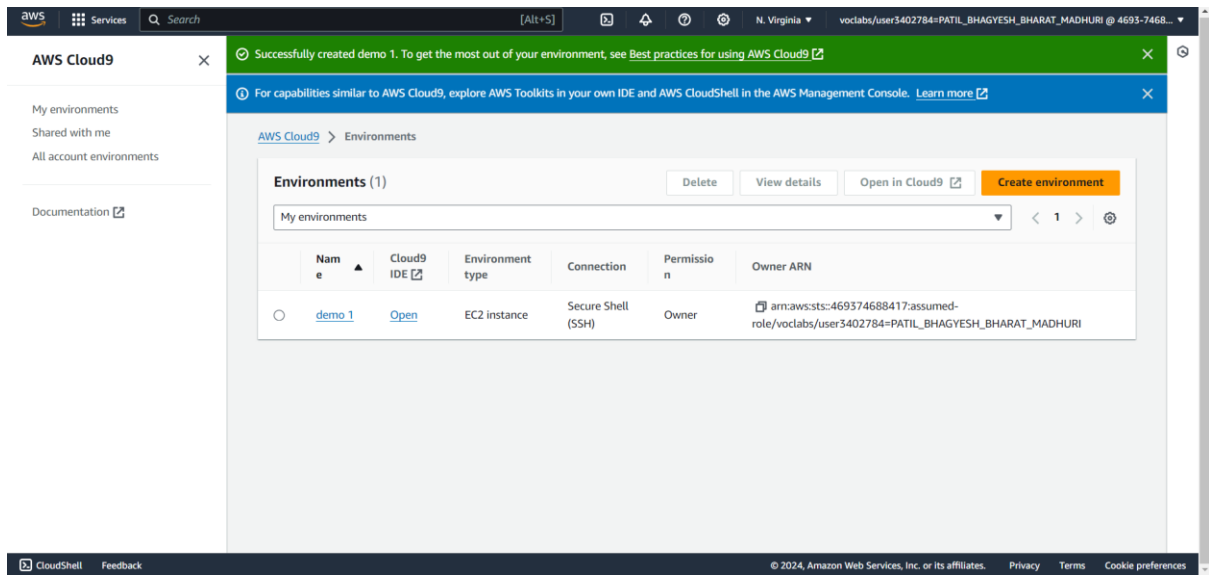
Uses default subnet in any Availability Zone

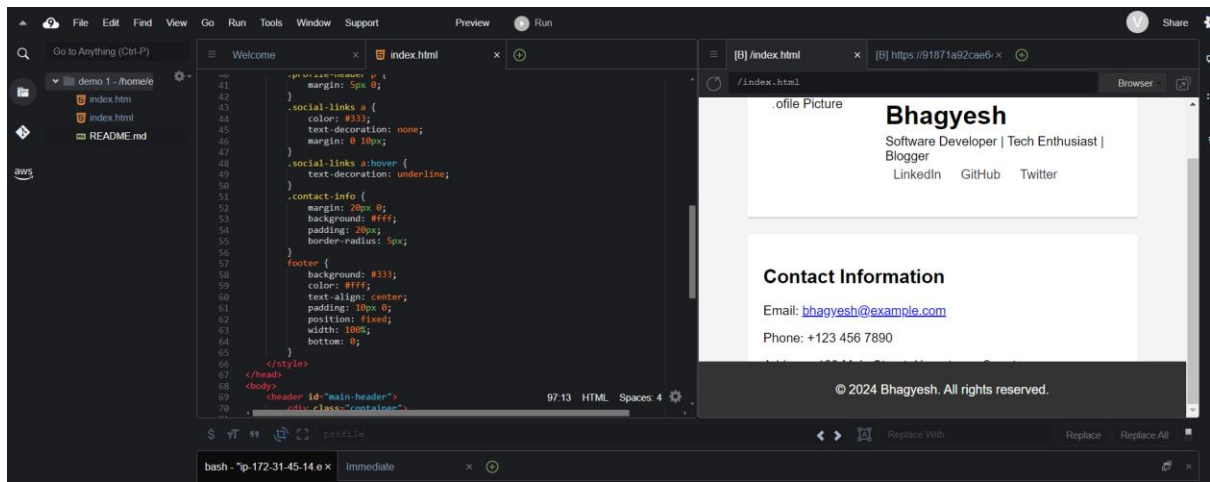
Tags - optional [Info](#)

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.

CloudShellFeedback

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EC2 INSTANCE

EC2 Dashboard

EC2 Global View

Events

Console-to-Code [Preview](#)

▼ Instances

Instances

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity

Reservations [New](#)

▼ Images

AMIs

AMI Catalog

▼ Elastic Block Store

Volumes

Snapshots

Resources

EC2 Global View

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)	1	Auto Scaling Groups	0	Capacity Reservations	0
Dedicated Hosts	0	Elastic IPs	0	Instances	1
Key pairs	1	Load balancers	0	Placement groups	0
Security groups	1	Snapshots	0	Volumes	1

Launch instance

To get started, launch an Amazon EC2 Instance, which is a virtual server in the cloud.

Launch instance

Migrate a server

Note: Your instances will launch in the US East (N. Virginia) Region

Service health

AWS Health Dashboard

Region

US East (N. Virginia)

Status

✔ This service is operating normally.

Zones

Account attributes

Default VPC

vpc-0d1a32243f7082871

Settings

Data protection and security

Zones

EC2 Serial Console

Default credit specification

EC2 console preferences

Explore AWS

Enable Best Price-Performance with AWS Graviton2

AWS Graviton2 powered EC2 instances enable up to 40% better price performance for a broad spectrum of cloud workloads. [Learn more](#)

Amazon GuardDuty Malware Protection

GuardDuty now provides agentless malware detection in Amazon EC2 & EC2 container workloads. [Learn more](#)

EC2 > Instances > Launch an instance

Launch an instance [Info](#)

Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.

Name and tags [Info](#)

Name

portfolio

Add additional tags

▼ Application and OS Images (Amazon Machine Image) [Info](#)

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

Q Search our full catalog including 1000s of application and OS images

Recents Quick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Hat

SUSE Li

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Ubuntu Server 24.04 LTS (HVM), SSD Volume Type

ami-0e86e20dae9224db8 (64-bit (x86)) / ami-096ea6a12ea24a797 (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Ubuntu Server 24.04 LTS (HVM),EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).

Architecture

64-bit (x86)

AMI ID

ami-0e86e20dae9224db8

Verified provider

Summary

Number of instances [Info](#)

1

Software Image (AMI)

Canonical, Ubuntu, 24.04, amd64...[read more](#)

ami-0e86e20dae9224db8

Virtual server type (instance type)

t2.micro

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

Cancel

Launch instance

[Review commands](#)

Q Search our full catalog including 1000s of application and OS images

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Cancel

Launch instance

[Review commands](#)

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

Instance type

t2.micro
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: 0.025 USD per Hour
On-Demand Linux base pricing: 0.0116 USD per Hour

Free tier eligible

☒ 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](#)

▼ 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 getting security group rules to allow access from known IP addresses only.

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

[Review commands](#)

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

EC2 > [Instances](#) > Launch an instance

Success
Successfully initiated launch of instance (i-0a0e1d4356c763d9c)

► Launch log

Next Steps

Create billing and free tier usage alerts
To manage costs and avoid surprise bills, set up email notifications for billing and free tier usage thresholds.
[Create billing alerts](#)

Connect to your instance
Once your instance is running, log into it from your local computer.
[Connect to instance](#)
[Learn more](#)

Connect an RDS database
Configure the connection between an EC2 instance and a database to allow traffic flow between them.
[Connect an RDS database](#)
[Create a new RDS database](#)
[Learn more](#)

Create EBS snapshot policy
Create a policy that automates the creation, retention, and deletion of EBS snapshots.
[Create EBS snapshot policy](#)

```
[1]+ Stopped nano index1.html
root@ip-172-31-36-118:/var/www/html# sudo nano index.html
root@ip-172-31-36-118:/var/www/html# sudo start apache2
sudo: start: command not found
root@ip-172-31-36-118:/var/www/html# sudo systemctl start apache2
root@ip-172-31-36-118:/var/www/html# sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Sun 2024-08-18 09:03:15 UTC; 22min ago
     Docs: https://httpd.apache.org/docs/2.4/
    Main PID: 3261 (apache2)
      Tasks: 55 (limit: 1130)
     Memory: 5.3M (peak: 5.5M)
        CPU: 128ms
    CGroup: /system.slice/apache2.service
            └─3261 /usr/sbin/apache2 -k start
              └─3264 /usr/sbin/apache2 -k start
                └─3265 /usr/sbin/apache2 -k start

Aug 18 09:03:15 ip-172-31-36-118 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Aug 18 09:03:15 ip-172-31-36-118 systemd[1]: Started apache2.service - The Apache HTTP Server.
root@ip-172-31-36-118:/var/www/html#
```

```
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.