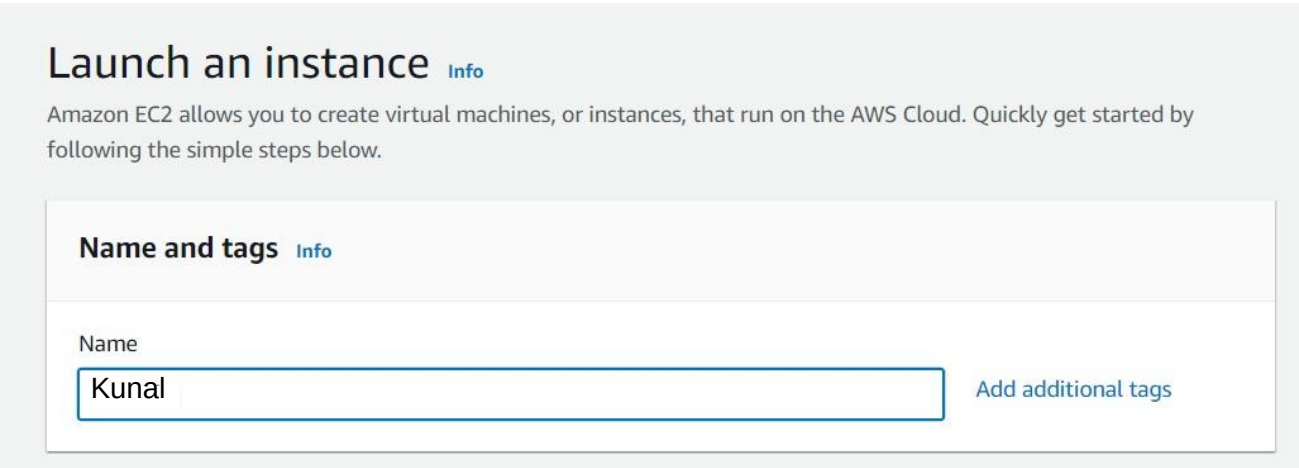
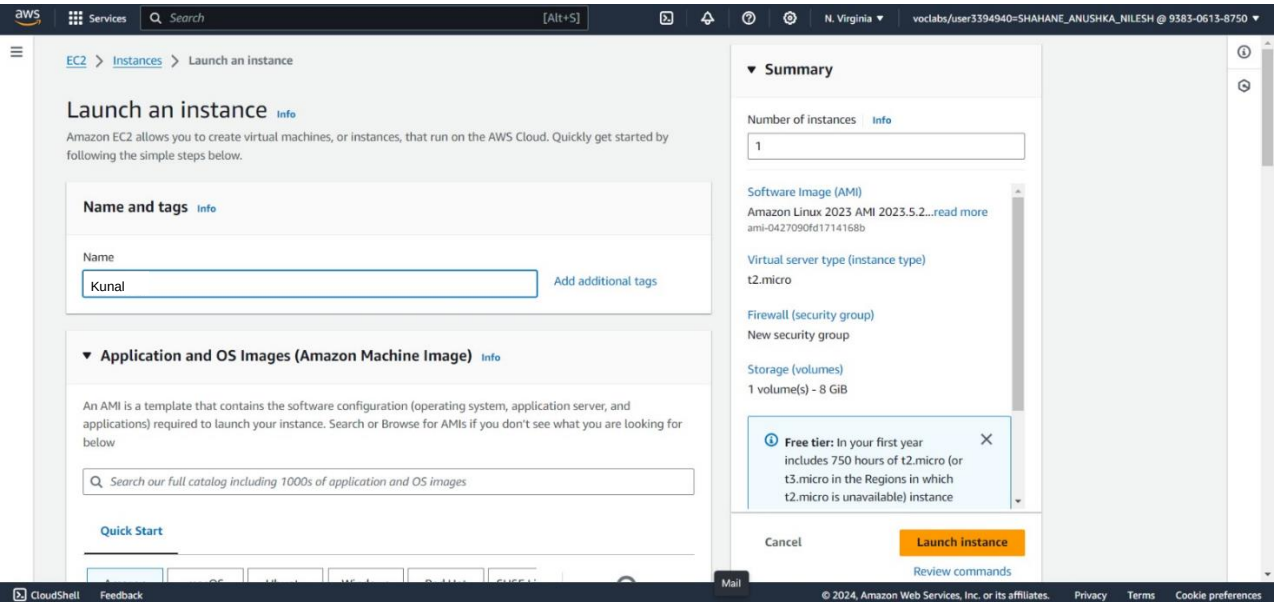


ADVANCE DEVOPS EXPERIMENT 1



### Quick Start

Amazon Linux  
aws

macOS  
Mac

Ubuntu  
ubuntu

Windows  
Microsoft

Red Hat  
Red Hat

SUSE Li  
SUSE

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-04a81a99f5ec58529 (64-bit (x86)) / ami-0c14ff330901e49ff (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-04a81a99f5ec58529  
Verified provider

### ▼ Configure storage [Info](#) [Advanced](#)

1x  GiB  Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

Click refresh to view backup information  
The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems [Edit](#)

EC2 > Instances > Launch an instance

**Success**  
Successfully initiated launch of instance (i-0df3904aed5f9e9d9)

▶ Launch log

**Next Steps**

Q What would you like to do next with this instance, for example "create alarm" or "create backup"

**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](#)

EC2 > Instances > Launch an instance

**Success**  
Successfully initiated launch of instance (i-0df3904aed5f9e9d9)

▼ Launch log

- Initializing requests ✔ Succeeded
- Creating security groups ✔ Succeeded
- Creating security group rules ✔ Succeeded
- Launch initiation ✔ Succeeded

**Next Steps**

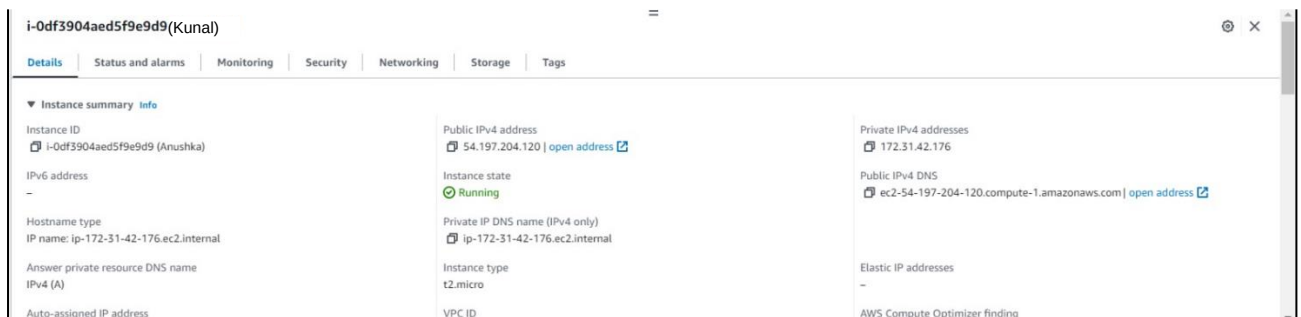
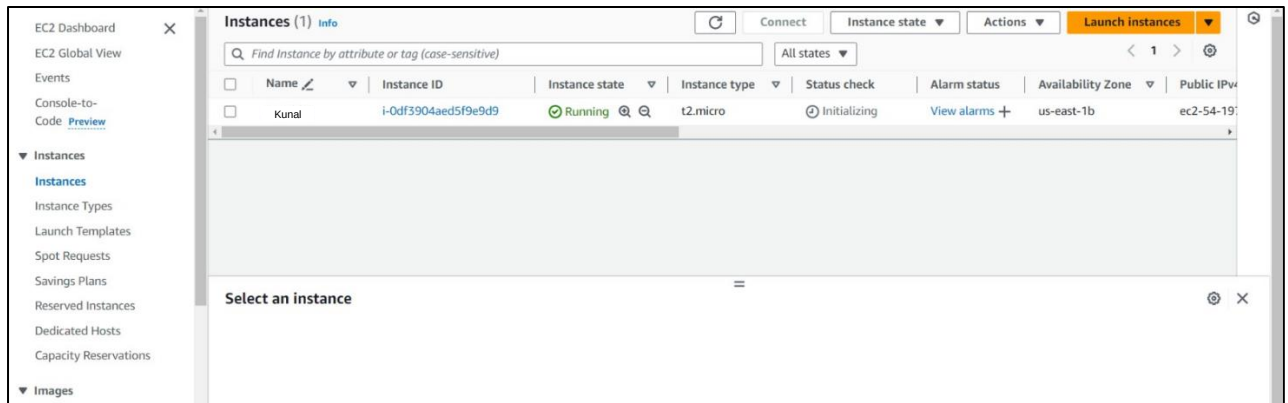
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**Create EBS snapshot policy**  
Create a policy that automates the creation, retention, and deletion of EBS snapshots  
[Create EBS snapshot policy](#)



To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo\_root" for details.

```
ubuntu@ip-172-31-42-176:~$ ls
ubuntu@ip-172-31-42-176:~$ echo "hello"
hello
ubuntu@ip-172-31-42-176:~$ cat > myfile.txt
This is Advance devops lab
^C
ubuntu@ip-172-31-42-176:~$ cat myfile
cat: myfile: No such file or directory
ubuntu@ip-172-31-42-176:~$ cat myfile.txt
This is Advance devops lab
ubuntu@ip-172-31-42-176:~$
```

## Hosting a static website using EC2 instance:

```
*** System restart required ***
Pending kernel upgrade!
Running kernel version:
  6.8.0-1009-aws
Diagnostics:
  The currently running kernel version is not the expected kernel version 6.8.0-1012-aws.
Last login: Tue Jul 30 08:37:47 2024 from 18.206.107.28
ubuntu@ip-172-31-41-78:~$ sudo su
root@ip-172-31-41-78:/home/ubuntu# apt install apache2
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
apache2 is already the newest version (2.4.58-1ubuntu8.4).
0 upgraded, 0 newly installed, 0 to remove and 0 not upgraded.
root@ip-172-31-41-78:/home/ubuntu# systemctl
```

```
└─12917 /usr/sbin/apache2 -k start
└─12919 /usr/sbin/apache2 -k start
└─12921 /usr/sbin/apache2 -k start

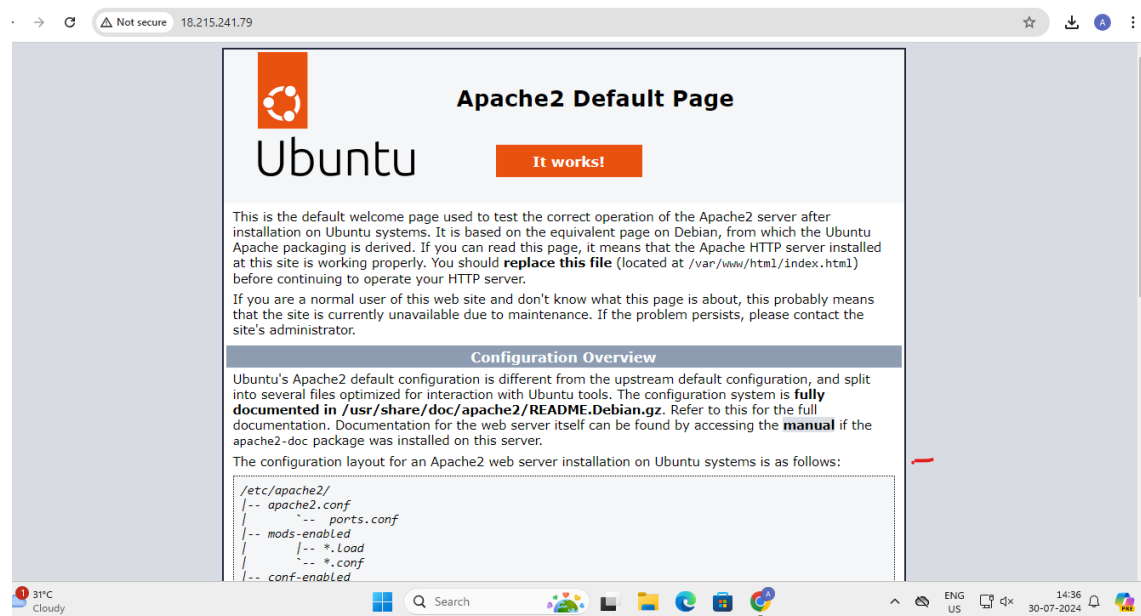
Jul 30 08:44:17 ip-172-31-41-78 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Jul 30 08:44:17 ip-172-31-41-78 systemd[1]: Started apache2.service - The Apache HTTP Server.
root@ip-172-31-41-78:/home/ubuntu# cd /var/www/html/
bash: cd /var/www/html/: No such file or directory
root@ip-172-31-41-78:/home/ubuntu# cd /var/www/html/
root@ip-172-31-41-78:/var/www/html# /var/www/html#
bash: /var/www/html#: No such file or directory
root@ip-172-31-41-78:/var/www/html#
```

```

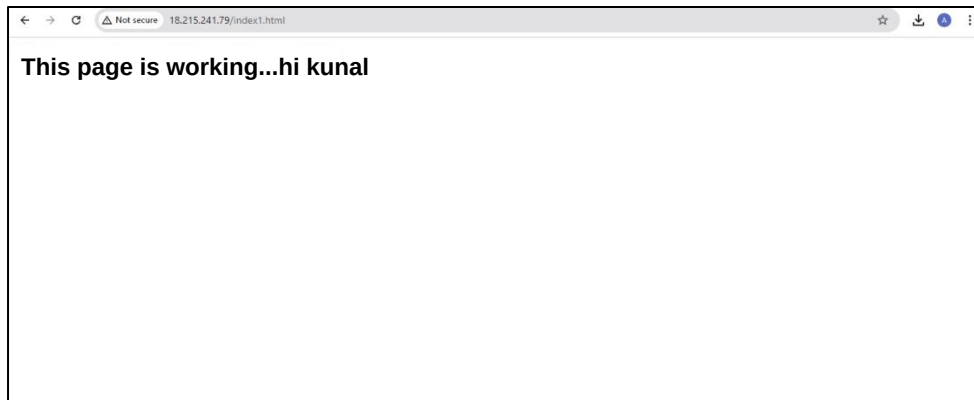
command 'systemctl' from deb systemctl (1.4.4181-1.1)
Try: apt install <deb name>
root@ip-172-31-41-78:/home/ubuntu# systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/apache2.service; enabled; preset: enabled)
   Active: active (running) since Tue 2024-07-30 08:44:17 UTC; 12min ago
     Docs: https://httpd.apache.org/docs/2.4/
  Main PID: 12917 (apache2)
    Tasks: 55 (limit: 1130)
   Memory: 5.3M (peak: 5.4M)
      CPU: 74ms
   CGroup: /system.slice/apache2.service
           └─12917 /usr/sbin/apache2 -k start
             └─12919 /usr/sbin/apache2 -k start
               └─12921 /usr/sbin/apache2 -k start

Jul 30 08:44:17 ip-172-31-41-78 systemd[1]: Starting apache2.service - The Apache HTTP Server...
Jul 30 08:44:17 ip-172-31-41-78 systemd[1]: Started apache2.service - The Apache HTTP Server.
root@ip-172-31-41-78:/home/ubuntu#

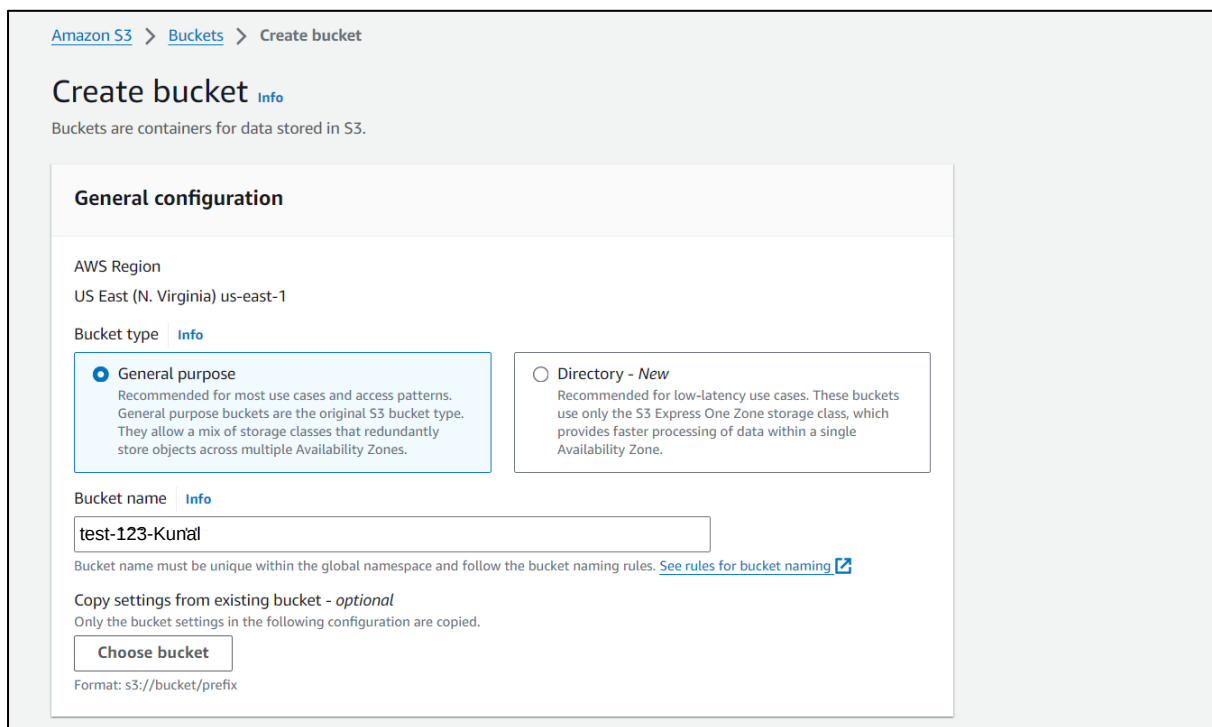
```



Kunal punjabi D15A 44



Hosting using S3 bucket :



Default encryption [Info](#)

Server-side encryption is automatically applied to new objects stored in this bucket.

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

Amazon S3 > Buckets

► Account snapshot - updated every 24 hours [All AWS Regions](#)

[View Storage Lens dashboard](#)

General purpose buckets

Directory buckets

General purpose buckets (1) [Info](#) [All AWS Regions](#)

↺

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

< 1 > ⚙

Name	AWS Region	IAM Access Analyzer	Creation date
<input type="radio"/> <a href="#">test-123-Kunal</a>	US East (N. Virginia) us-east-1	<a href="#">View analyzer for us-east-1</a>	August 11, 2024, 19:49:09 (UTC+05:30)



Upload succeeded  
View details below.

The information below will no longer be available after you navigate away from this page.

Summary

Destination  
s3://test-123-Kunal

Succeeded  
1 file, 0 B (0%)

Failed  
0 files, 0 B (0%)

Files and folders

Configuration

Files and folders (1 Total, 0 B)

Find by name

< 1 >

Name	Folder	Type	Size	Status	Error
<a href="#">Test.txt</a>	-	text/plain	0 B	Succeeded	-

Amazon S3

Buckets

Access Grants

Access Points

Object Lambda Access Points

Multi-Region Access Points

Batch Operations

IAM Access Analyzer for S3

Block Public Access settings for this account

Storage Lens

Dashboards

Storage Lens groups

AWS Organizations settings

Feature spotlight

Amazon S3 > Buckets > test-123-anushka > Test.txt

Test.txt

Copy S3 URI

Download

Open

Object actions

Properties

Permissions

Versions

Object overview

Owner  
aws:labs0w4201793t1653663267

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

Last modified  
August 11, 2024, 19:58:50 (UTC+05:30)

Size  
-

Type  
txt

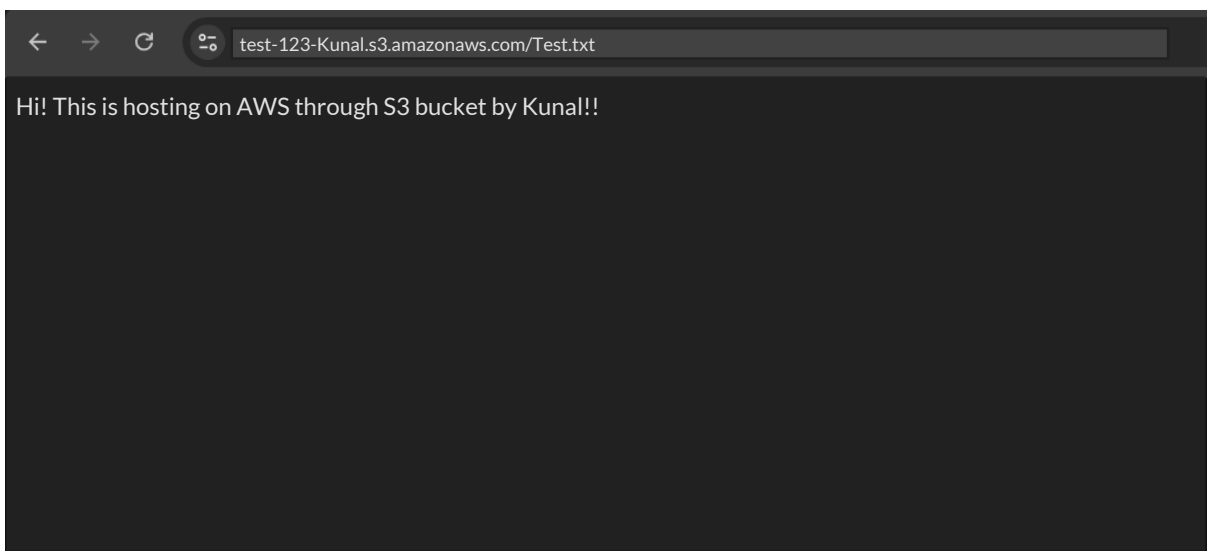
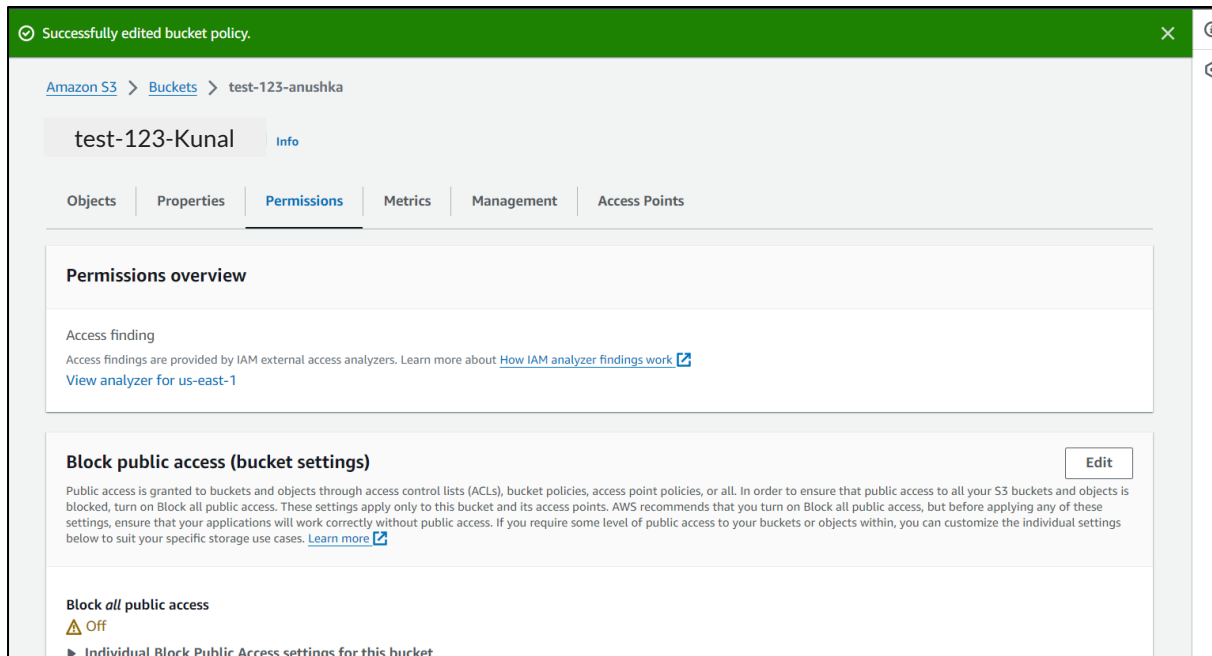
Key

S3 URI  
s3://test-123-anushka/Test.txt

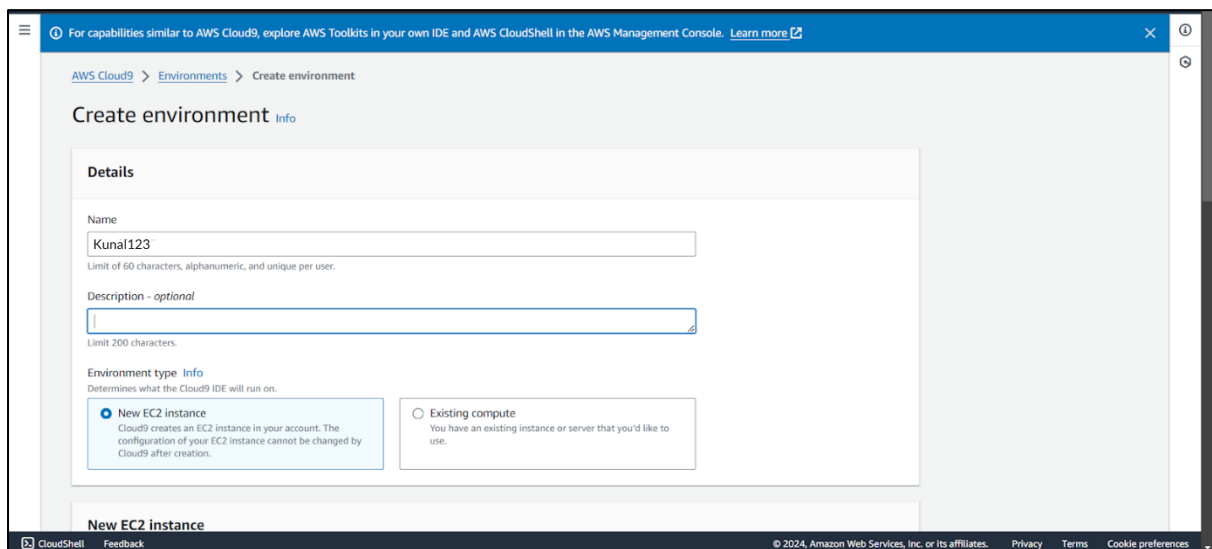
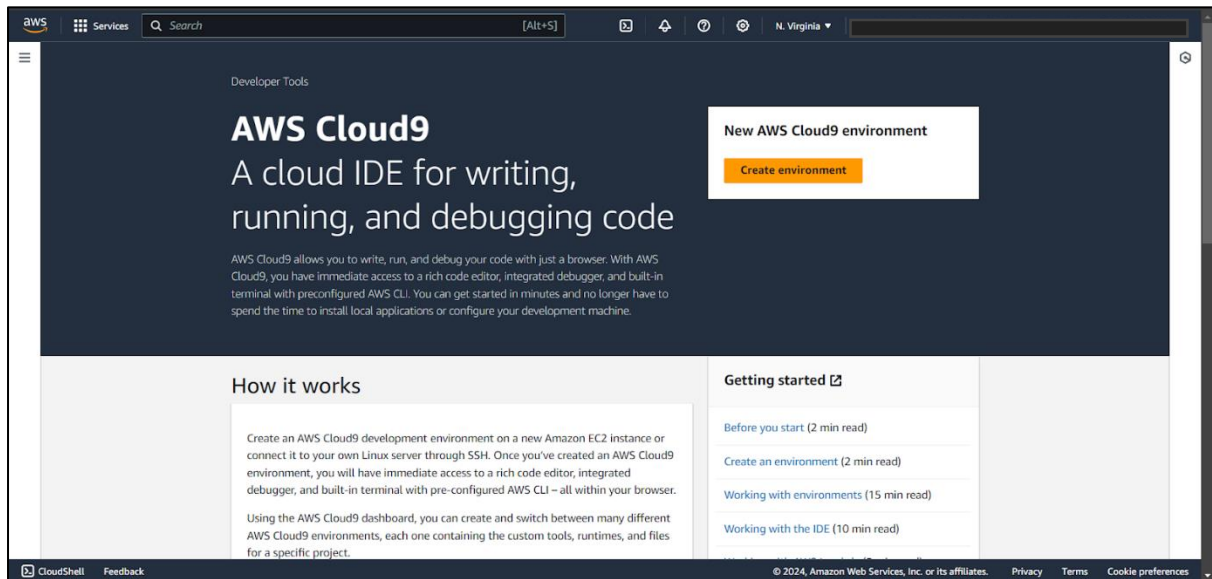
Amazon Resource Name (ARN)  
arn:aws:s3:::test-123-anushka/Test.txt

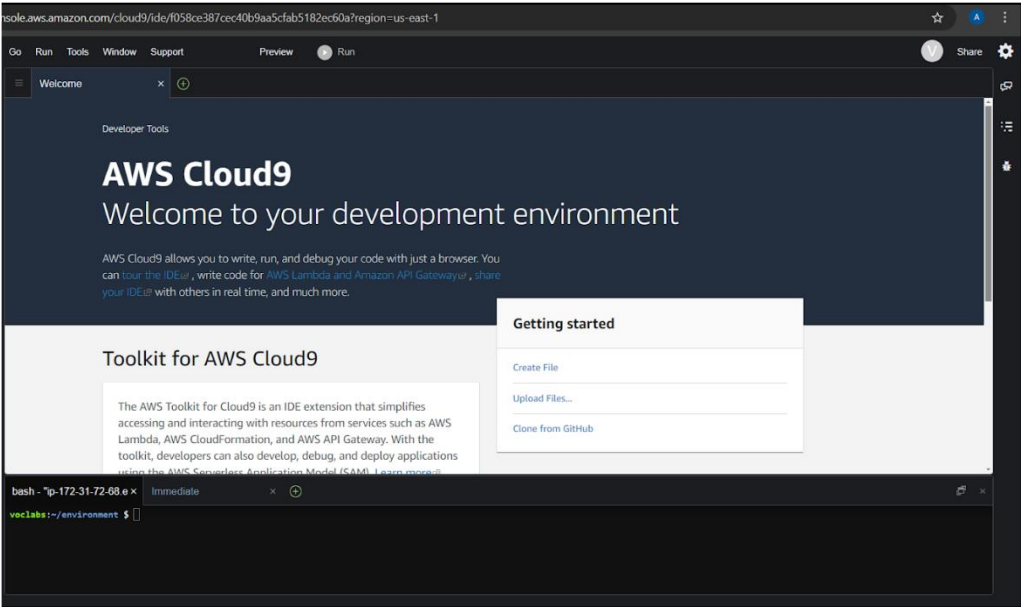
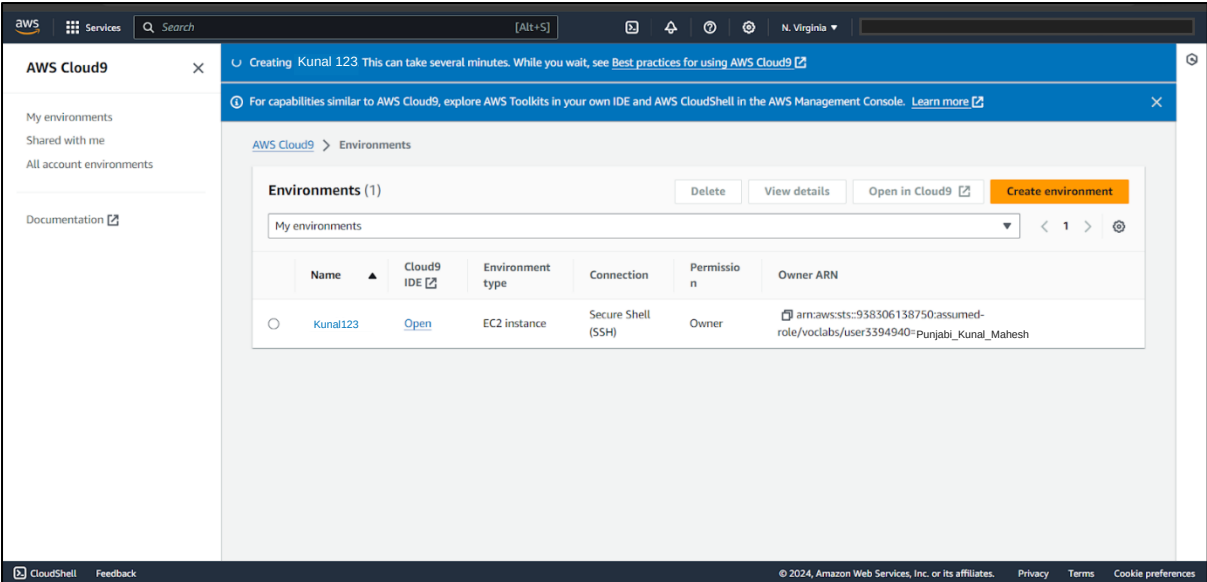
Entity tag (Etag)  
d41d8cd98f00b204e9800998ecf8427e

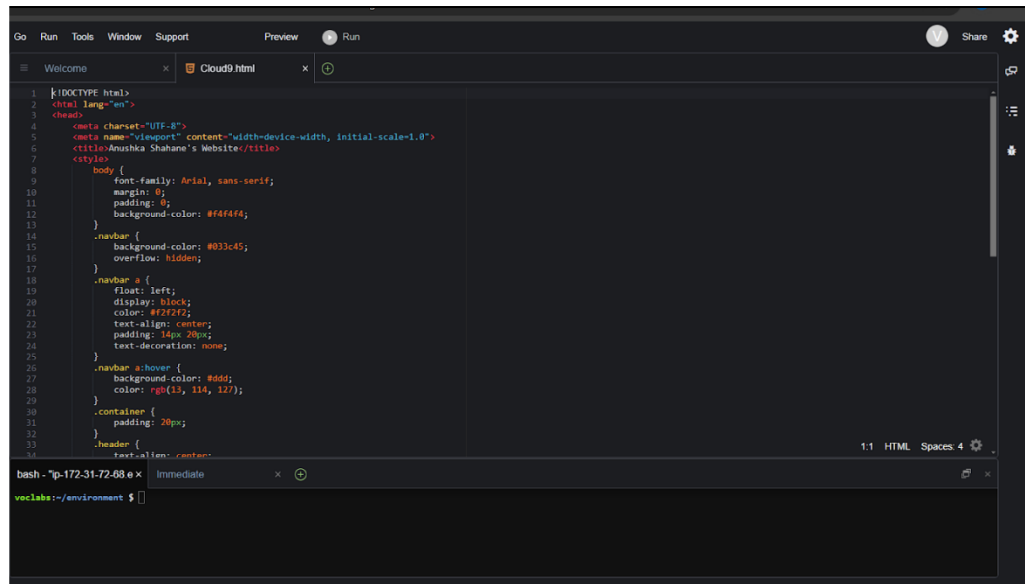
Object URL  
https://test-123-kunal.s3.amazonaws.com/test.txt



## Hosting using Cloud 9 :







The screenshot shows a code editor with a dark theme. The top menu bar includes 'Go', 'Run', 'Tools', 'Window', 'Support', 'Preview', and 'Run'. The editor has two tabs: 'Welcome' and 'Cloud9.html'. The code in 'Cloud9.html' is as follows:

```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4 <meta charset="UTF-8">
5 <meta name="viewport" content="width=device-width, initial-scale=1.0">
6 <title>Anushka Shahane's Website</title>
7 <style>
8     body {
9         font-family: Arial, sans-serif;
10        margin: 0;
11        padding: 0;
12        background-color: #f4f4f4;
13    }
14    .navbar {
15        background-color: #03c45;
16        overflow: hidden;
17    }
18    .navbar a {
19        float: left;
20        display: block;
21        color: #f2f2f2;
22        text-align: center;
23        padding: 14px 20px;
24        text-decoration: none;
25    }
26    .navbar a:hover {
27        background-color: #ddd;
28        color: rgb(13, 114, 127);
29    }
30    .container {
31        padding: 20px;
32    }
33    .header {
34        text-align: center;
```

At the bottom, there is a terminal window with the prompt 'bash - "p-172-31-72-68 e x' and 'voclabs:~/environment \$'.

