

Q1) Write a shell script to find largest number among three numbers entered by user.

Ans-

- 1) Open .sh file- To write a code

```
utkarsha@utkarsha-VirtualBox:~$ nano Q1.sh
```

- 2) Code-

```
GNU nano 6.2                                     Q1.sh
#!/bin/bash
read -p "Enter the three numbers: " a b c
if [[ (( a -gt b )) && (( a -gt c )) ]]
then
    echo $a "is the largest number"
elif [[ ((b -gt a )) && (( b -gt c )) ]]
then
    echo $b "is the largest number"
else
    echo $c "is the largest number"
fi
```

- 3) Output-

```
utkarsha@utkarsha-VirtualBox:~$ bash Q1.sh
Enter the three numbers: 9 3 1
9 is the largest number
```

2) Write a shell script to display a menu like Date,cal,ls,pwd and exit.

```
utkarsha@utkarsha-VirtualBox:~$ nano Q2.sh
```

```
GNU nano 6.2                                         02.sh *
```

```
#!/bin/bash
echo "1. Current Date "
echo "2. Calender "
echo "3. list "
echo "4. Current path "
echo "5. Exit "
read -p "Enter the choice which you want: " c
case $c in
    1)date "+%Y-%m-%d"
    ;;
    2)cal
    ;;
    3)ls
    ;;
    4)pwd
    ;;
    5)exit 0
    ;;
    *)echo "Invalid option"
esac
```

```
utkarsha@utkarsha-VirtualBox:~$ nano Q2.sh
utkarsha@utkarsha-VirtualBox:~$ bash Q2.sh
1. Current Date
2. Calender
3. list
4. Current path
5. Exit
Enter the choice which you want: 1
2024-03-16
utkarsha@utkarsha-VirtualBox:~$ bash Q2.sh
1. Current Date
2. Calender
3. list
4. Current path
5. Exit
Enter the choice which you want: 2
      March 2024
Su Mo Tu We Th Fr Sa
          1  2
3  4  5  6  7  8  9
10 11 12 13 14 15 16
17 18 19 20 21 22 23
24 25 26 27 28 29 30
31
utkarsha@utkarsha-VirtualBox:~$ bash Q2.sh
1. Current Date
2. Calender
3. list
4. Current path
5. Exit
Enter the choice which you want: 3
a      cdac-dir  Downloads  filee.txt  newfile.txt  Pictures  Q1.sh
anf    demo1     f1.txt    file.txt    nf           Public    Q2.sh
```

```
utkarsha@utkarsha-VirtualBox:~$ bash Q2.sh
1. Current Date
2. Calender
3. list
4. Current path
5. Exit
Enter the choice which you want: 4
/home/utkarsha
utkarsha@utkarsha-VirtualBox:~$ bash Q2.sh
1. Current Date
2. Calender
3. list
4. Current path
5. Exit
Enter the choice which you want: 5
utkarsha@utkarsha-VirtualBox:~$ bash Q2.sh
1. Current Date
2. Calender
3. list
4. Current path
5. Exit
Enter the choice which you want: 6
Invalid option
utkarsha@utkarsha-VirtualBox:~$
```

Q3) Write a Linux directory

Ans-

- 1) Create new file

```
utkarsha@utkarsha-VirtualBox:~/Documents$ mkdir exam
utkarsha@utkarsha-VirtualBox:~/Documents$ ls
a          demo1      f1.txt      newdir
anf        Desktop    f2.txt      newfile.txt
b          Documents  f3.txt      nf
backup     Downloads  filee.txt  nf.txt
cdac-dir   exam      Music      one
```

- 2) Rename an existing directory

```
utkarsha@utkarsha-VirtualBox:~$ mv exam newfile
utkarsha@utkarsha-VirtualBox:~$ ls
a          demo1      f2.txt      newfile      Pictures
anf        Desktop    f3.txt      newfile.txt  Public
```

```
utkarsha@utkarsha-VirtualBox:~$ ls -l exam  
ls: cannot access 'exam': No such file or directory
```

- 3) Move an existing directory

```
utkarsha@utkarsha-VirtualBox:~$ mv newfile /home/utkarsha/Documents  
utkarsha@utkarsha-VirtualBox:~$ ls  
a      cdac-dir  Downloads  filee.txt    nf          Public  Q2.sh
```

```
utkarsha@utkarsha-VirtualBox:~$ cd Documents  
utkarsha@utkarsha-VirtualBox:~/Documents$ rm -r newfile  
utkarsha@utkarsha-VirtualBox:~/Documents$ cd
```

- 5) create new file

```
utkarsha@utkarsha-VirtualBox:~$ cd Documents  
utkarsha@utkarsha-VirtualBox:~/Documents$ ls  
utkarsha@utkarsha-VirtualBox:~/Documents$ touch File.txt  
utkarsha@utkarsha-VirtualBox:~/Documents$ chmod ug+rw File.txt  
utkarsha@utkarsha-VirtualBox:~/Documents$ ls -l FFFFFFFFFFFFFFFFFFFFile.txt  
ls: cannot access 'FFFFFFFFFFFFFFFFFFFFFFFFFile.txt': No such file or directory  
utkarsha@utkarsha-VirtualBox:~/Documents$ ls -l File.txt  
-rw-rw-r-- 1 utkarsha utkarsha 0 Mar 16 04:10 File.txt  
utkarsha@utkarsha-VirtualBox:~/Documents$
```

Cloud

Q2

Ans-

The screenshot shows the AWS S3 console at s3.console.aws.amazon.com/s3/get-started?region=us-east-1. The main heading is "Amazon S3" with the subtext "Store and retrieve any amount of data from anywhere". It includes a brief description of S3 as an object storage service. To the right, there are three sections: "Create a bucket" (with a "Create bucket" button), "Pricing" (noting no minimum fees), and "Resources". At the bottom, there's a "How it works" section featuring a video thumbnail titled "Introduction to Amazon S3".

54.88.187.225 s3.console.aws.amazon.com Create S3 bucket | S3 | Global

aws Services Search [Alt+S] Global Utkarsha Lokhande

Amazon S3 > Buckets > Create bucket

Create bucket info

Buckets are containers for data stored in S3.

General configuration

AWS Region

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.

Format: s3://bucket/prefix

Object Ownership Info

The screenshot shows the AWS Launch Wizard interface for creating a new instance. The process is titled "Create an Amazon Linux 2023 AMI instance".

Step 1: Set instance details

- Instance type:** t2.micro (selected)
- Number of instances:** 1
- Software Image (AMI):** Amazon Linux 2023 AMI 2023.3.2... (read more)
- Virtual server type (instance type):** t2.micro
- Firewall (security group):** New security group
- Storage (volumes):** 1 volume(s) - 8 GiB

Step 2: Configure instance details

- Key pair (login):** cdac_utkarsha (selected)
- Network settings:** Network (Info) - vpc-0f447f12341c6a30f, Subnet (Info)

Step 3: Review and launch

Summary:

- Number of instances: 1
- Software Image (AMI): Amazon Linux 2023 AMI 2023.3.2... (read more)
- Virtual server type (instance type): t2.micro
- Firewall (security group): New security group
- Storage (volumes): 1 volume(s) - 8 GiB

Actions:

- Cancel
- Launch instance
- Review commands

54.88.187.225 Create S3 bucket | S3 | Global

s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1&bucketType=general

aws Services Search [Alt+S]

Add tag

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**

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54.88.187.225 S3 buckets | S3 | Global

s3.console.aws.amazon.com/s3/buckets?region=us-east-1&bucketType=general

aws Services Search [Alt+S]

Successfully created bucket "awsbucket-url"

To upload files and folders, or to configure additional bucket settings, choose [View details](#).

Amazon S3 > Buckets

▶ Account snapshot

Storage lens provides visibility into storage usage and activity trends. [Learn more](#)

[View Storage Lens dashboard](#)

General purpose buckets Directory buckets

General purpose buckets (1) Info

Buckets are containers for data stored in S3.

Find buckets by name

C Copy ARN **Empty** **Delete** **Create bucket**

< 1 > ⌂

Name	AWS Region	Access	Creation date
awsbucket-url	US East (N. Virginia) us-east-1	Objects can be public	March 16, 2024, 09:05:13 (UTC+05:30)

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The screenshot shows the AWS S3 console interface. The top navigation bar includes the AWS logo, Services, Search, and a Global dropdown set to 'Utkarsha Lokhande'. The main title is 'awsbucket-url - S3 bucket | S3 | +'. Below the title, the path 'Amazon S3 > Buckets > awsbucket-url' is displayed. The 'Objects' tab is selected, showing a table header for 'Name', 'Type', 'Last modified', 'Size', and 'Storage class'. A message 'No objects' indicates there are no objects in the bucket. At the bottom right of the table area is a large orange 'Upload' button.

The screenshot shows the 'Edit Object Ownership' dialog box. The title is 'Edit Object Ownership | Info'. The left sidebar lists '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', and 'AWS Marketplace for S3'. The main content area has two radio button options: 'ACLs disabled (recommended)' and 'ACLs enabled'. A note below the first option states: 'All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.' The second option is selected, with a note: 'Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.' A warning message in a yellow box says: '⚠ We recommend disabling ACLs, unless you need to control access for each object individually or to have the object writer own the data they upload. Using a bucket policy instead of ACLs to share data with users outside of your account simplifies permissions management and auditing.' Another yellow box contains a warning: '⚠ Enabling ACLs turns off the bucket owner enforced setting for Object Ownership. Once the bucket owner enforced setting is turned off, access control lists (ACLs) and their associated permissions are restored. Access to objects that you do not own will be based on ACLs and not the bucket policy.' A checkbox at the bottom of this box is checked with the text 'I acknowledge that ACLs will be restored.' At the bottom of the dialog, under 'Object Ownership', there are two radio buttons: 'Bucket owner preferred' (selected) and 'Object writer', with the note 'If new objects written to this bucket specify the bucket-owner-full-control canned ACL, they are owned by the bucket owner. Otherwise, they are owned by the object writer.' The footer of the dialog includes 'CloudShell', 'Feedback', and copyright information: '© 2024, Amazon Web Services, Inc. or its affiliates. Privacy Terms Cookie preferences'.

54.88.187.225 | Upload objects - S3 bucket aws | Edit access control list (ACL) - S | +

s3.console.aws.amazon.com/s3/buckets/awsbucket-url/object/edit_acl?region=us-east-1&bucketType=general&prefix=flower.jpg

aws Services Search [Alt+S]

Authenticated users group Read (anyone with an AWS account) Write

Group: <http://acs.amazonaws.com/groups/global/AuthenticatedUsers>

⚠️ When you grant access to the Everyone or Authenticated users group grantees, anyone in the world can access this object.

[Learn more](#)

I understand the effects of these changes on this object.

Access for other AWS accounts
No other AWS accounts associated with the resource.

Add grantee

Specified objects

Name	Type	Last modified	Size
flower.jpg	jpg	March 16, 2024, 09:06:50 (UTC+05:30)	256.1 KB

Cancel **Save changes**

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54.88.187.225 | Upload objects - S3 bucket aws | flower.jpg - Object in S3 bucket | +

s3.console.aws.amazon.com/s3/object/awsbucket-url?region=us-east-1&bucketType=general&prefix=flower.jpg&tab=permissions

aws Services Search [Alt+S]

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 **7**

AWS Marketplace for S3

flower.jpg Info

Properties Permissions Versions

Access control list (ACL)

Grant basic read/write permissions to AWS accounts. [Learn more](#)

Edit

Grantee	Object	Object ACL
Object owner (your AWS account) Canonical ID: 294de49d358daa260e118c7ae26f0e1680fc300864484e6df08858d3e21b136e	Read	Read, Write
Everyone (public access) Group: http://acs.amazonaws.com/groups/global/AllUsers	-	-
Authenticated users group (anyone with an AWS account) Group: http://acs.amazonaws.com/groups/global/AuthenticatedUsers	-	-

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Screenshot of the AWS S3 console showing the 'Edit access control list (ACL)' page for an object named 'flower.jpg'.

The 'Authenticated users group' has 'Read' and 'Write' permissions selected. A warning message states: "When you grant access to the Everyone or Authenticated users group grantees, anyone in the world can access this object." A checkbox labeled "I understand the effects of these changes on this object." is checked.

The 'Access for other AWS accounts' section shows "No other AWS accounts associated with the resource." and a "Add grantee" button.

The 'Specified objects' table lists one object:

Name	Type	Last modified	Size
flower.jpg	jpg	March 16, 2024, 09:06:50 (UTC+05:30)	256.1 KB

Buttons at the bottom right include "Cancel" and "Save changes".

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Screenshot of the AWS S3 console showing the 'Object in S3 bucket' page for the 'flower.jpg' object.

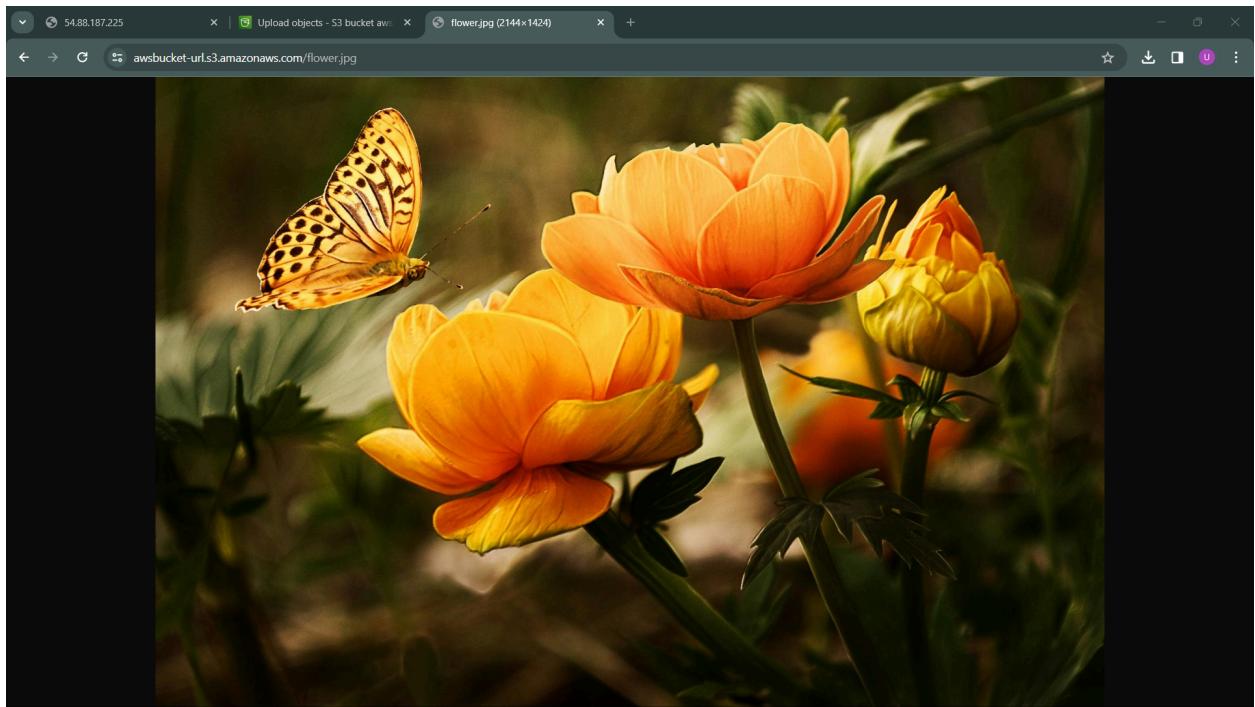
A green success message at the top states: "Successfully edited access control list for object 'flower.jpg'."

The 'Properties' tab is selected, showing the following details:

Object overview	
Owner	utkarshalokhande2001
AWS Region	US East (N. Virginia) us-east-1
Last modified	March 16, 2024, 09:06:50 (UTC+05:30)
Size	256.1 KB
Type	jpg
Key	flower.jpg
S3 URI	s3://awsbucket-url/flower.jpg
Amazon Resource Name (ARN)	arn:aws:s3:::awsbucket-url/flower.jpg
Entity tag (Etag)	6bb25cc7e96b3d0c7fb79b053081392
Object URL	https://awsbucket-url.s3.amazonaws.com/flower.jpg

The 'Object management overview' section notes: "The following bucket properties and object management configurations impact the behavior of this object."

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Q2) EC2

Ans-

Instances | EC2 | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instancesv=3;\$case=tags:true%5C;client:false;\$regex=tags:false%5C;client:false

aws Services Search [Alt+S]

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

Lifecycle Manager

Instances Info

Find Instance by attribute or tag (case-sensitive)

Any state

Launch instances

No instances

You do not have any instances in this region

Launch instances

Select an instance

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The screenshot shows the AWS EC2 Instances page. The left sidebar includes links for EC2 Dashboard, EC2 Global View, Events, Console-to-Code, Instances (selected), Images, AMIs, AMI Catalog, and Elastic Block Store. The main content area has tabs for 'Instances' and 'Info'. The 'Info' tab is active, showing a search bar, filters for 'Any state', and a large button labeled 'Launch instances'. Below this, a message states 'No instances' and 'You do not have any instances in this region'. A secondary modal window titled 'Select an instance' is open at the bottom. The bottom navigation bar includes links for CloudShell, Feedback, and legal notices.

Create key pair



Key pair name

Key pairs allow you to connect to your instance securely.

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type

RSA

RSA encrypted private and public key pair

ED25519

ED25519 encrypted private and public key pair

Private key file format

.pem

For use with OpenSSH

.ppk

For use with PuTTY

 When prompted, store the private key in a secure and accessible location on your computer. You will need it later to connect to your instance. [Learn more](#) 

Cancel

Create key pair

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

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
cdac_utkarsha 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.

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

Quick Start

Amazon Linux macOS Ubuntu Windows Red Hat SUSE Li Browse more AMIs

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.3.2...read more
ami-0d7a109bf30624c99

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 usage on free tier AMIs per month, 30 GiB of EBS storage, 2

Cancel **Launch instance** Review commands

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aws Services Search [Alt+S]

EC2 > Instances > Launch an instance

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: 0.0716 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*
cdac_utkarsha Create new key pair

Network settings Info

Network Info
vpc-0f447f12341c6a30f

Subnet Info

Summary

Number of instances Info
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.3.2...read more
ami-0d7a109bf30624c99

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 usage on free tier AMIs per month, 30 GiB of EBS storage, 2

Cancel **Launch instance** Review commands

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us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Enable

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-11**' with the following rules:

[Allow SSH traffic from Anywhere](#)
Helps you connect to your instance
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 security group rules to allow access from known IP addresses only.

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

1x GiB [gp3](#) 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](#)

Summary

Number of instances [Info](#)
1

Software Image (AMI)
Amazon Linux 2023 AMI 2023.3.2... [read more](#)
ami-067a109bf3062499

Virtual server type (instance type)
t2.micro

Firewall (security group)
New security group

Storage (volumes)
1 volume(s) - 8 GiB

Launch instance

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Instances | EC2 | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

EC2 Dashboard

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
- Lifecycle Manager

[CloudShell](#) [Feedback](#)

Instances (1) Info

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS
cdac_utkarsha	i-0e1f9181a40c5e0dd	Running	t2.micro	-	View alarms +	us-east-1b	ec2-54-88-187

Select an instance

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Instance details | EC2 | us-east-1

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#InstanceDetails:instanceId=i-0e1f9181a40c5e0dd

EC2 Services Search [Alt+S]

EC2 Instances i-0e1f9181a40c5e0dd

Instance summary for i-0e1f9181a40c5e0dd (cdac_utkarsha) [Info](#)

Updated less than a minute ago

Instance ID: i-0e1f9181a40c5e0dd (cdac_utkarsha)

Public IPv4 address: 54.88.187.225 [Open address](#)

Private IPv4 address: 172.31.47.112

IPv6 address: -

Instance state: Running

Public IPv4 DNS: ec2-54-88-187-225.compute-1.amazonaws.com [Open address](#)

Hostname type: IP name: ip-172-31-47-112.ec2.internal

Private IP DNS name (IPv4 only): ip-172-31-47-112.ec2.internal

Instance type: t2.micro

Answer private resource DNS name: IPv4 (A)

VPC ID: vpc-0f447f12341c6a30f [View](#)

Elastic IP addresses: -

Auto-assigned IP address: 54.88.187.225 [Public IP]

Subnet ID: subnet-0ae6cbc550c5c41f [View](#)

AWS Compute Optimizer finding: Opt-in to AWS Compute Optimizer for recommendations. [Learn more](#)

IAM Role: -

Auto Scaling Group name: -

IMDSv2 Required

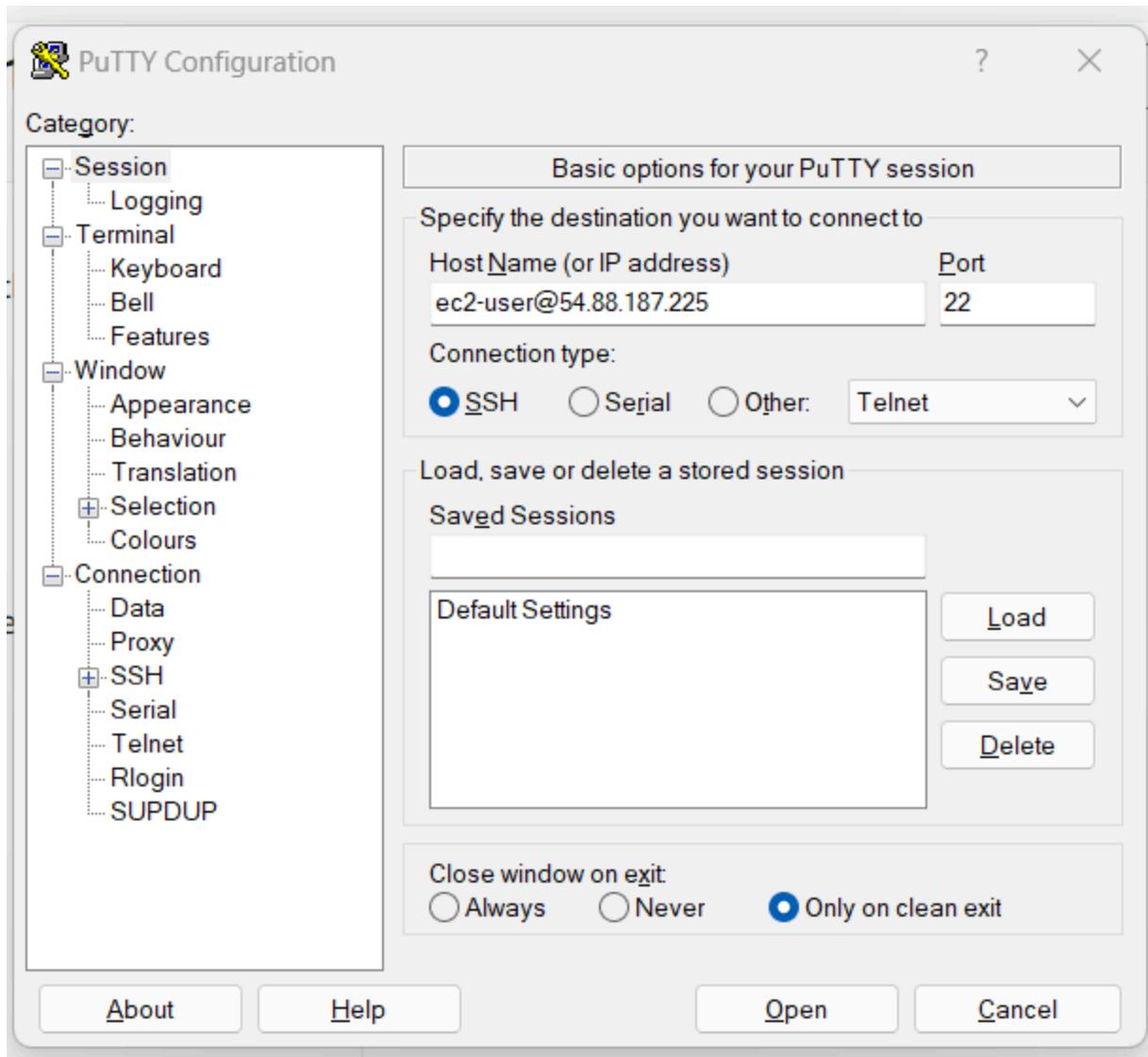
Details Status and alarms [New](#) Monitoring Security Networking Storage Tags

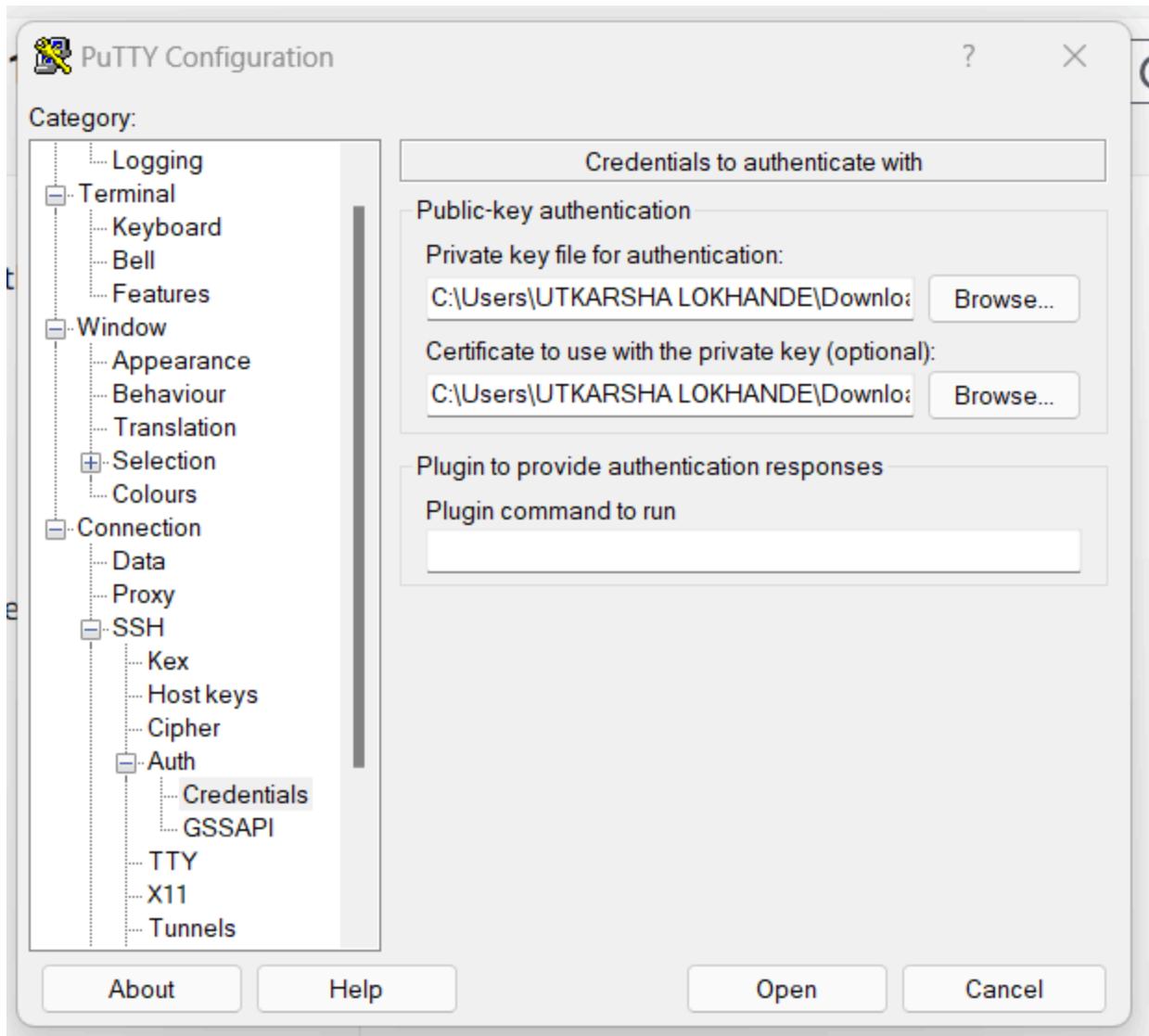
Instance details [Info](#)

CloudShell Feedback

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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 Lifecycle Manager





```
[root@ip-172-31-47-112:~]# Unable to use certificate file "C:\Users\UTKARSHA LOKHANDE\Downloads\cdac_utk
[root@ip-172-31-47-112:~]# arsha.ppk" (PuTTY SSH-2 private key)
[root@ip-172-31-47-112:~]# Using username "ec2-user".
[root@ip-172-31-47-112:~]# Authenticating with public key "cdac_utkarsha"
[ec2-user@ip-172-31-47-112 ~]$ sudo -i
[ec2-user@ip-172-31-47-112 ~]# yum update -y
Last metadata expiration check: 0:01:22 ago on Sat Mar 16 03:25:12 2024.
Dependencies resolved.
Nothing to do.
Complete!
[ec2-user@ip-172-31-47-112 ~]# yum install httpd -y
Last metadata expiration check: 0:01:35 ago on Sat Mar 16 03:25:12 2024.
Dependencies resolved.
=====
: Package           Arch   Version        Repository      Size
=====
Installing:
httpd             x86_64  2.4.58-1.amzn2023    amazonlinux   47 k
Installing dependencies:
apr               x86_64  1.7.2-2.amzn2023.0.2  amazonlinux   129 k
apr-util          x86_64  1.6.3-1.amzn2023.0.1  amazonlinux   98 k
generic-logos-httpd noarch  18.0.0-12.amzn2023.0.3  amazonlinux   19 k
httpd-core        x86_64  2.4.58-1.amzn2023    amazonlinux   1.4 M
httpd-filesystem  noarch  2.4.58-1.amzn2023    amazonlinux   14 k
httpd-tools        x86_64  2.4.58-1.amzn2023    amazonlinux   81 k
libbrotli         x86_64  1.0.9-4.amzn2023.0.2  amazonlinux   315 k
mailcap           noarch  2.1.49-3.amzn2023.0.3  amazonlinux   33 k
Installing weak dependencies:
apr-util-openssl x86_64  1.6.3-1.amzn2023.0.1  amazonlinux   17 k
```

```
root@ip-172-31-47-112:/var/www/html
apr-util-openssl      x86_64    1.6.3-1.amzn2023.0.1      amazonlinux    17 k
mod_http2             x86_64    2.0.11-2.amzn2023      amazonlinux   150 k
mod_lua               x86_64    2.4.58-1.amzn2023      amazonlinux   61 k

Transaction Summary
=====
Install 12 Packages

Total download size: 2.3 M
Installed size: 6.9 M
Downloading Packages:
(1/12): httpd-2.4.58-1.amzn2023.x86_64.rpm 696 kB/s | 47 kB 00:00
(2/12): mod_http2-2.0.11-2.amzn2023.x86_64.rpm 2.0 MB/s | 150 kB 00:00
(3/12): libbrotli-1.0.9-4.amzn2023.0.2.x86_64.r 3.7 MB/s | 315 kB 00:00
(4/12): apr-1.7.2-2.amzn2023.0.2.x86_64.rpm 6.5 MB/s | 129 kB 00:00
(5/12): mod_lua-2.4.58-1.amzn2023.x86_64.rpm 3.8 MB/s | 61 kB 00:00
(6/12): apr-util-openssl-1.6.3-1.amzn2023.0.1.x 1.0 MB/s | 17 kB 00:00
(7/12): apr-util-1.6.3-1.amzn2023.0.1.x86_64.r 5.4 MB/s | 98 kB 00:00
(8/12): httpd-core-2.4.58-1.amzn2023.x86_64.rpm 33 MB/s | 1.4 MB 00:00
(9/12): httpd-tools-2.4.58-1.amzn2023.x86_64.r 3.5 MB/s | 81 kB 00:00
(10/12): generic-logos-httpd-18.0.0-12.amzn2023 912 kB/s | 19 kB 00:00
(11/12): httpd-filesystem-2.4.58-1.amzn2023.noa 885 kB/s | 14 kB 00:00
(12/12): mailcap-2.1.49-3.amzn2023.0.3.noarch.r 1.7 MB/s | 33 kB 00:00
Total 11 MB/s | 2.3 MB 00:00

Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Installing : apr-1.7.2-2.amzn2023.0.2.x86_64 1/12
Installing : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 2/12
Installing : apr-util-1.6.3-1.amzn2023.0.1.x86_64 3/12
Installing : mailcap-2.1.49-3.amzn2023.0.3.noarch 4/12
Installing : httpd-tools-2.4.58-1.amzn2023.x86_64 5/12
Running scriptlet: httpd-filesystem-2.4.58-1.amzn2023.noarch 6/12
Installing : httpd-filesystem-2.4.58-1.amzn2023.noarch 6/12
Installing : httpd-core-2.4.58-1.amzn2023.x86_64 7/12
Installing : mod_http2-2.0.11-2.amzn2023.x86_64 8/12
Installing : mod_lua-2.4.58-1.amzn2023.x86_64 9/12
Installing : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 10/12
Installing : libbrotli-1.0.9-4.amzn2023.0.2.x86_64 11/12
Installing : httpd-2.4.58-1.amzn2023.x86_64 12/12
Running scriptlet: httpd-2.4.58-1.amzn2023.x86_64 12/12
```

```
root@ip-172-31-47-112:/var/www/html
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Installing : apr-1.7.2-2.amzn2023.0.2.x86_64 1/12
Installing : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 2/12
Installing : apr-util-1.6.3-1.amzn2023.0.1.x86_64 3/12
Installing : mailcap-2.1.49-3.amzn2023.0.3.noarch 4/12
Installing : httpd-tools-2.4.58-1.amzn2023.x86_64 5/12
Running scriptlet: httpd-filesystem-2.4.58-1.amzn2023.noarch 6/12
Installing : httpd-filesystem-2.4.58-1.amzn2023.noarch 6/12
Installing : httpd-core-2.4.58-1.amzn2023.x86_64 7/12
Installing : mod_http2-2.0.11-2.amzn2023.x86_64 8/12
Installing : mod_lua-2.4.58-1.amzn2023.x86_64 9/12
Installing : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 10/12
Installing : libbrotli-1.0.9-4.amzn2023.0.2.x86_64 11/12
Installing : httpd-2.4.58-1.amzn2023.x86_64 12/12
Running scriptlet: httpd-2.4.58-1.amzn2023.x86_64 12/12
Verifying : libbrotli-1.0.9-4.amzn2023.0.2.x86_64 1/12
Verifying : mod_http2-2.0.11-2.amzn2023.x86_64 2/12
Verifying : httpd-2.4.58-1.amzn2023.x86_64 3/12
Verifying : apr-1.7.2-2.amzn2023.0.2.x86_64 4/12
Verifying : mod_lua-2.4.58-1.amzn2023.x86_64 5/12
Verifying : httpd-core-2.4.58-1.amzn2023.x86_64 6/12
Verifying : apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64 7/12
Verifying : apr-util-1.6.3-1.amzn2023.0.1.x86_64 8/12
Verifying : httpd-tools-2.4.58-1.amzn2023.x86_64 9/12
Verifying : generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch 10/12
Verifying : httpd-filesystem-2.4.58-1.amzn2023.noarch 11/12
Verifying : mailcap-2.1.49-3.amzn2023.0.3.noarch 12/12

Installed:
apr-1.7.2-2.amzn2023.0.2.x86_64
apr-util-1.6.3-1.amzn2023.0.1.x86_64
apr-util-openssl-1.6.3-1.amzn2023.0.1.x86_64
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
httpd-2.4.58-1.amzn2023.x86_64
httpd-core-2.4.58-1.amzn2023.x86_64
httpd-filesystem-2.4.58-1.amzn2023.noarch
httpd-tools-2.4.58-1.amzn2023.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64
mailcap-2.1.49-3.amzn2023.0.3.noarch
mod_http2-2.0.11-2.amzn2023.x86_64
mod_lua-2.4.58-1.amzn2023.x86_64
```

```
root@ip-172-31-47-112:/var/www/html
generic-logos-httpd-18.0.0-12.amzn2023.0.3.noarch
httpd-2.4.58-1.amzn2023.x86_64
httpd-core-2.4.58-1.amzn2023.x86_64
httpd-filesystem-2.4.58-1.amzn2023.noarch
httpd-tools-2.4.58-1.amzn2023.x86_64
libbrotli-1.0.9-4.amzn2023.0.2.x86_64
mailcap-2.1.49-3.amzn2023.0.3.noarch
mod_http2-2.0.11-2.amzn2023.x86_64
mod_lua-2.4.58-1.amzn2023.x86_64

Complete!
[root@ip-172-31-47-112 ~]# systemctl start httpd
[root@ip-172-31-47-112 ~]# systemctl status httpd
● httpd.service - The Apache HTTP Server
   Loaded: loaded (/usr/lib/systemd/system/httpd.service; disabled; preset: d>
   Active: active (running) since Sat 2024-03-16 03:26:59 UTC; 9s ago
     Docs: man:httpd.service(8)
 Main PID: 15873 (httpd)
    Status: "Total requests: 0; Idle/Busy workers 100/0;Requests/sec: 0; Bytes>
      Tasks: 177 (limit: 1114)
     Memory: 13.1M
       CPU: 66ms
      CGroup: /system.slice/httpd.service
              ├─15873 /usr/sbin/httpd -DFOREGROUND
              ├─15904 /usr/sbin/httpd -DFOREGROUND
              ├─15905 /usr/sbin/httpd -DFOREGROUND
              ├─15906 /usr/sbin/httpd -DFOREGROUND
              └─15907 /usr/sbin/httpd -DFOREGROUND

Mar 16 03:26:59 ip-172-31-47-112.ec2.internal systemd[1]: Starting httpd.service>
Mar 16 03:26:59 ip-172-31-47-112.ec2.internal systemd[1]: Started httpd.service>
Mar 16 03:26:59 ip-172-31-47-112.ec2.internal httpd[15873]: Server configured, >
[root@ip-172-31-47-112 ~]# systemctl enable httpd
Created symlink /etc/systemd/system/multi-user.target.wants/httpd.service → /usr
/lib/systemd/system/httpd.service.
[root@ip-172-31-47-112 ~]# cd /var/www/html
[root@ip-172-31-47-112 html]# ls
[root@ip-172-31-47-112 html]# vi index.html
[root@ip-172-31-47-112 html]# cat index.html
<html>
  <body>
    <h1>Hello world!</h1>
  </body>
</html>
[root@ip-172-31-47-112 html]#
```

 root@ip-172-31-47-112:/var/www/html

```
<html>
    <body>
        <h1>Hello world!</h1>
    </body>
</html>
```

-- INSERT --

