

Calculating Aws Daily Cost Using Python Script

Prerequisite:

AWS Account

AWS Cli

AWS Credentials (ACCESS KEY, SECRET ACCESS KEY)

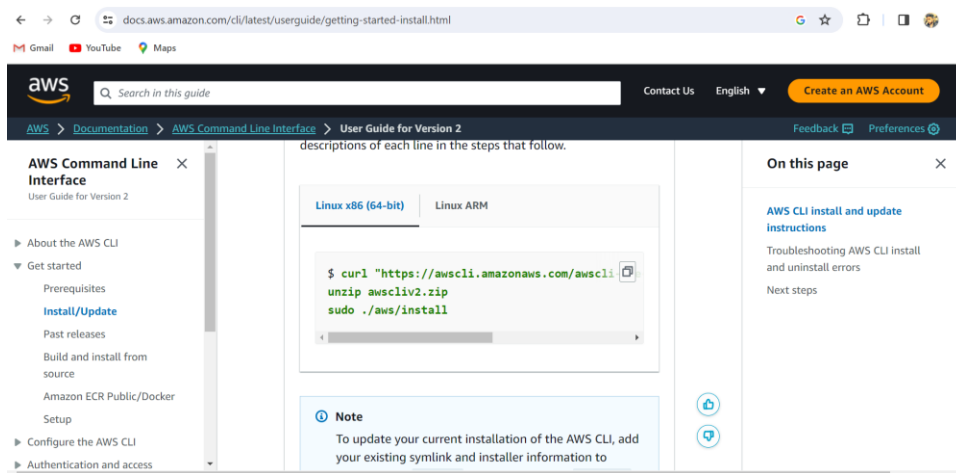
pip

Python3

Boto3

STEP 1:- Installing AWS cli

Open browser and type this url <https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html>



Go to terminal and type this command

`curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"`

```
azureuser@master:~$ curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           Dload  Upload   Total   Spent    Left   Speed
100 56.3M  100 56.3M    0     0  214M    0 --:--:-- --:--:-- --:--:-- 215M
azureuser@master:~$
```

It will download aws cli version2 package on your local

ls

```
azureuser@master:~$ ls
awscliv2.zip
azureuser@master:~$
```

Need to extract the zip file

Install unzip package to unzip the awscliv2 package

Sudo apt install unzip

```
azureuser@master:~$ sudo apt install unzip -y
Reading package lists... Done
Building dependency tree
Reading state information... Done
Suggested packages:
  zip
The following NEW packages will be installed:
  unzip
0 upgraded, 1 newly installed, 0 to remove and 0 not upgraded.
Need to get 168 kB of archives.
After this operation, 593 kB of additional disk space will be used.
Get:1 http://azure.archive.ubuntu.com/ubuntu focal-updates/main amd64 unzip amd64 6.0-25ubuntu1.1 [168 kB]
Fetched 168 kB in 0s (3811 kB/s)
Selecting previously unselected package unzip.
(Reading database ... 58907 files and directories currently installed.)
Preparing to unpack .../unzip_6.0-25ubuntu1.1_amd64.deb ...
Unpacking unzip (6.0-25ubuntu1.1) ...
Setting up unzip (6.0-25ubuntu1.1) ...
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for man-db (2.9.1-1) ...
azureuser@master:~$
```

Then unzip the awscliv2.zip using following command

unzip awscliv2.zip

```
azureuser@master:~$ unzip awscliv2.zip
Archive:  awscliv2.zip
  creating: aws/
  creating: aws/dist/
 inflating: aws/install
 inflating: aws/THIRD_PARTY_LICENSES
 inflating: aws/README.md
  creating: aws/dist/awscli/
  creating: aws/dist/cryptography/
```

ls

You will find aws directory

```
azureuser@master:~$ ls
aws  awscliv2.zip
```

After installing we need to go inside the aws directory and run the install script

```
azureuser@master:~$ cd aws
azureuser@master:~/aws$ ls
README.md  THIRD_PARTY_LICENSES  dist  install
azureuser@master:~/aws$
```

sudo ./install

It will install awscli into your system

```
azureuser@master:~/aws$ sudo ./install
You can now run: /usr/local/bin/aws --version
azureuser@master:~/aws$
```

After that you can check your aws version by running

aws --version

```
azureuser@master:~/aws$ aws --version
aws-cli/2.13.30 Python/3.11.6 Linux/5.15.0-1050-azure exe/x86_64.ubuntu.20 prompt/off
```

Alternate way

sudo apt update

sudo apt install awscli

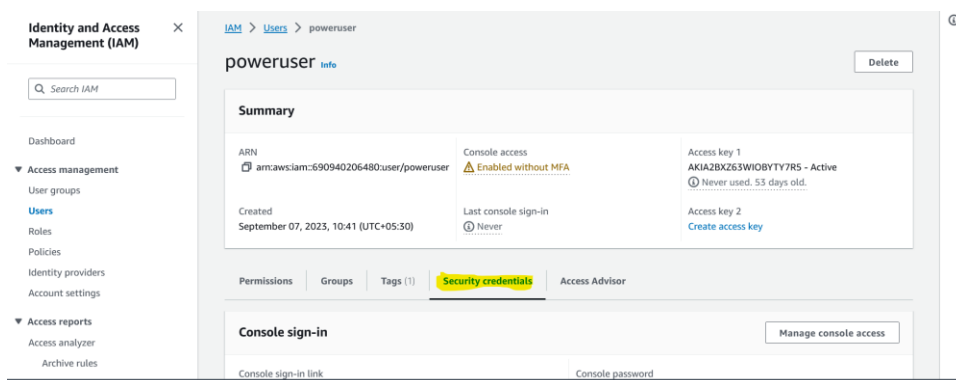
aws --version

You are successfully installed awscli

Step2 configure aws using access key and secret access key

Configure AWS CLI: After CLI installation, we have to download the AWS Console access key.

For that, go to **IAM >Users >select user >Security Credentials**



> choose Access keys > Create New Access Key,

Access keys (1)

Use access keys to send programmatic calls to AWS from the AWS CLI, AWS Tools for PowerShell, AWS SDKs, or direct AWS API calls. You can have a maximum of two access keys (active or inactive) at a time. [Learn more](#)

Create access key

AKIA2BXZ63WIOBYTY7R5	Actions ▼
Description poweruser	Status Active
Last used None	Created 53 days ago
Last used region N/A	Last used service N/A

then select interface as command line

Set description tag

Step 3
Retrieve access keys

Use case

☐ **Command Line Interface (CLI)**
You plan to use this access key to enable the AWS CLI to access your AWS account.

☐ **Local code**
You plan to use this access key to enable application code in a local development environment to access your AWS account.

☐ **Application running on an AWS compute service**
You plan to use this access key to enable application code running on an AWS compute service like Amazon EC2, Amazon ECS, or AWS Lambda to access your AWS account.

☐ **Third-party service**
You plan to use this access key to enable access for a third-party application or service that monitors or manages your AWS resources.

☐ **Application running outside AWS**
You plan to use this access key to authenticate workloads running in your data center or other infrastructure outside of AWS that needs to access your AWS resources.

☐ **Other**

Give the tag if you want and click on create access key

[IAM](#) > [Users](#) > [poweruser](#) > Create access key

Step 1
[Access key best practices & alternatives](#)

Step 2 - optional
Set description tag

Step 3
Retrieve access keys

Set description tag - optional [Info](#)

The description for this access key will be attached to this user as a tag and shown alongside the access key.

Description tag value
Describe the purpose of this access key and where it will be used. A good description will help you rotate this access key confidently later.

Maximum 256 characters. Allowed characters are letters, numbers, spaces representable in UTF-8, and: _ . : / = + * @

Cancel Previous **Create access key**

download that key to the local machine.

Access key created

This is the only time that the secret access key can be viewed or downloaded. You cannot recover it later. However, you can create a new access key any time.

Step 2 - optional

[Set description tag](#)

Step 3

Retrieve access keys

Access key

If you lose or forget your secret access key, you cannot retrieve it. Instead, create a new access key and make the old key inactive.

Access key

AKIA2BXZ63WIDK7GIFEU

Secret access key

***** [Show](#)

Access key best practices

- Never store your access key in plain text, in a code repository, or in code.
- Disable or delete access key when no longer needed.
- Enable least-privilege permissions.
- Rotate access keys regularly.

For more details about managing access keys, see the [best practices for managing AWS access keys](#).

Download .csv file

Done

Now we can configure AWS CLI using the command: `aws configure` and fill in details like AWS keys, region, and output format.

```
azureuser@master:~$ aws configure
AWS Access Key ID [None]: AKIA2BXZ63WIDK7GIFEU
AWS Secret Access Key [None]: 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
Default region name [None]: us-east-1
Default output format [None]: json
azureuser@master:~$
```

We can check by running any aws cli command like `aws s3 ls`

Step3 install pip

Sudo apt install python3-pip

```
azureuser@master:~$ sudo apt install python3-pip
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following additional packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu build-essential cpp cpp-9 dpkg-dev fakeroot g++ g++-9 gcc gcc-9 gcc-9-base
  libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan5 libatomic1 libbinutils libc-dev-bin libc6-dev
  libcc1-0 libcrypt-dev libctf-nobfd0 libctf0 libdpkg-perl libexpat1-dev libfakeroot libfile-fcntllock-perl libgcc-9-dev libgomp1
  libisl22 libitm1 liblsan0 libmpc3 libpython3-dev libpython3.8-dev libquadmath0 libstdc++-9-dev libtsan0 libubsan1 linux-libc-dev
  make manpages-dev python-pip-whl python3-dev python3-wheel python3.8-dev zlib1g-dev
Suggested packages:
  binutils-doc cpp-doc gcc-9-locales debian-keyring g++-multilib g++-9-multilib gcc-9-doc gcc-multilib autoconf automake libtool flex
  bison gdb gcc-doc gcc-9-multilib glibc-doc bzip libstdc++-9-doc make-doc
The following NEW packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu build-essential cpp cpp-9 dpkg-dev fakeroot g++ g++-9 gcc gcc-9 gcc-9-base
  libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan5 libatomic1 libbinutils libc-dev-bin libc6-dev
  libcc1-0 libcrypt-dev libctf-nobfd0 libctf0 libdpkg-perl libexpat1-dev libfakeroot libfile-fcntllock-perl libgcc-9-dev libgomp1
  libisl22 libitm1 liblsan0 libmpc3 libpython3-dev libpython3.8-dev libquadmath0 libstdc++-9-dev libtsan0 libubsan1 linux-libc-dev
  make manpages-dev python-pip-whl python3-dev python3-pip python3-wheel python3.8-dev zlib1g-dev
0 upgraded, 39 newly installed, 0 to remove and 0 not upgraded.
Need to get 52.2 MB of archives.
After this operation, 228 MB of additional disk space will be used.
Do you want to continue? [Y/n]
```

Pip install boto3

```

azureuser@master:~$ pip install boto3
Collecting boto3
  Downloading boto3-1.28.73-py3-none-any.whl (135 kB)
    |#####| 135 kB 25.7 MB/s
Collecting jmespath<2.0.0,>=0.7.1
  Downloading jmespath-1.0.1-py3-none-any.whl (20 kB)
Collecting s3transfer<0.8.0,>=0.7.0
  Downloading s3transfer-0.7.0-py3-none-any.whl (79 kB)
    |#####| 79 kB 7.6 MB/s
Collecting botocore<1.32.0,>=1.31.73
  Downloading botocore-1.31.73-py3-none-any.whl (11.3 MB)
    |#####| 11.3 MB 52.1 MB/s
Requirement already satisfied: urllib3<1.27,>=1.25.4; python_version < "3.10" in /usr/lib/python3/dist-packages (from botocore<1.32.0,>=1.31.73->boto3) (1.25.8)
Collecting python-dateutil<3.0.0,>=2.1
  Downloading python_dateutil-2.8.2-py2.py3-none-any.whl (247 kB)
    |#####| 247 kB 61.3 MB/s
Requirement already satisfied: six>=1.5 in /usr/lib/python3/dist-packages (from python-dateutil<3.0.0,>=2.1->botocore<1.32.0,>=1.31.73->boto3) (1.14.0)
Installing collected packages: jmespath, python-dateutil, botocore, s3transfer, boto3
Successfully installed boto3-1.28.73 botocore-1.31.73 jmespath-1.0.1 python-dateutil-2.8.2 s3transfer-0.7.0
azureuser@master:~$

```

Now we need to create and run the script

Create file

Vim aws_cost.py

Write code in this file

Run the file

Python3 aws_cost.py

```

azureuser@master:~$ python3 aws_cost.py
Daily costs saved to daily_costs.csv
azureuser@master:~$ cat daily_costs.csv
Account ID,Date,Cost
690940206480,2023-09-04,1.5587585582
971986416690,2023-09-04,0.0
859756588904,2023-09-04,0.0
azureuser@master:~$

```

After running this script, you will have a CSV file that contains the daily cost data for the specified AWS accounts within the specified date range.

Calculating Azure Daily Cost Using Python Script

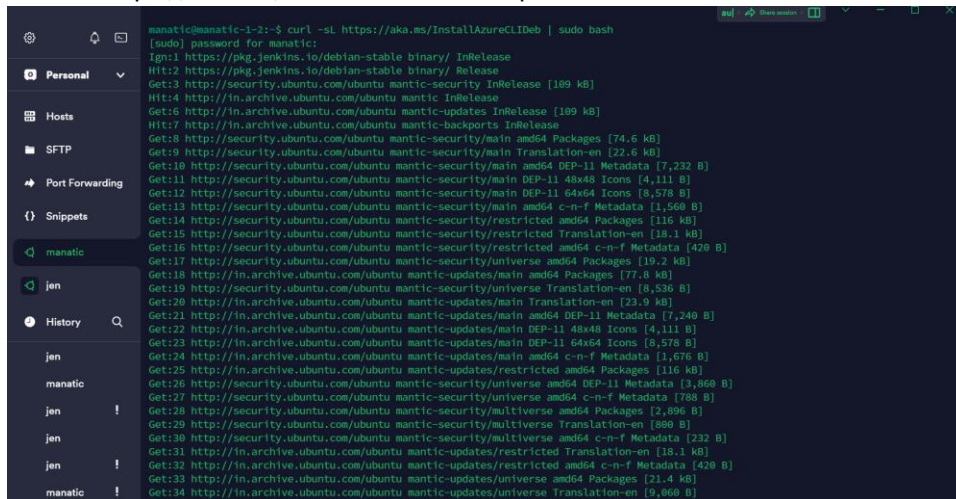
Prerequisite:

Azure Account
Azure Cli
Azure Subscription Id
pip
Python3

Step 1

First we need to download azure cli for ubuntu

`curl -sL https://aka.ms/InstallAzureCLIDeb | sudo bash`



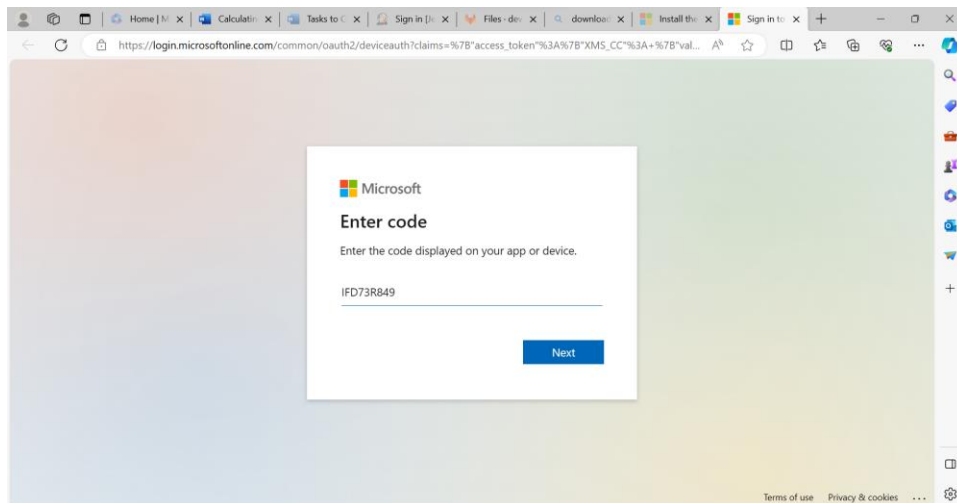
```
manatic@manatic-1-2:~$ curl -sL https://aka.ms/InstallAzureCLIDeb | sudo bash
[sudo] password for manatic:
Ign:1 https://pkg.jenkins.io/debian-stable binary/ InRelease
Hit:2 https://pkg.jenkins.io/debian-stable binary/ Release
Get:3 https://security.ubuntu.com/ubuntu mantic-security InRelease [109 kB]
Hit:4 http://in.archive.ubuntu.com/ubuntu mantic InRelease
Get:6 http://in.archive.ubuntu.com/ubuntu mantic-updates InRelease [109 kB]
Hit:7 http://in.archive.ubuntu.com/ubuntu mantic-backports InRelease
Get:8 https://security.ubuntu.com/ubuntu mantic-security/main amd64 Packages [74.6 kB]
Get:9 https://security.ubuntu.com/ubuntu mantic-security/main Translation-en [22.6 kB]
Get:10 https://security.ubuntu.com/ubuntu mantic-security/main amd64 DEP-11 Metadata [7,222 B]
Get:11 https://security.ubuntu.com/ubuntu mantic-security/main DEP-11 48x48 Icons [4,111 B]
Get:12 https://security.ubuntu.com/ubuntu mantic-security/main DEP-11 64x64 Icons [8,578 B]
Get:13 https://security.ubuntu.com/ubuntu mantic-security/main amd64 c-n-f Metadata [1,569 B]
Get:14 https://security.ubuntu.com/ubuntu mantic-security/restricted amd64 Packages [116 kB]
Get:15 https://security.ubuntu.com/ubuntu mantic-security/restricted Translation-en [18.1 kB]
Get:16 https://security.ubuntu.com/ubuntu mantic-security/restricted amd64 c-n-f Metadata [420 B]
Get:17 https://security.ubuntu.com/ubuntu mantic-security/universe amd64 Packages [19.2 kB]
Get:18 http://in.archive.ubuntu.com/ubuntu mantic-updates/main amd64 Packages [77.8 kB]
Get:19 https://security.ubuntu.com/ubuntu mantic-security/universe Translation-en [8,536 B]
Get:20 http://in.archive.ubuntu.com/ubuntu mantic-updates/main Translation-en [23.9 kB]
Get:21 http://in.archive.ubuntu.com/ubuntu mantic-updates/main amd64 DEP-11 Metadata [7,240 B]
Get:22 http://in.archive.ubuntu.com/ubuntu mantic-updates/main DEP-11 48x48 Icons [4,111 B]
Get:23 http://in.archive.ubuntu.com/ubuntu mantic-updates/main DEP-11 64x64 Icons [8,578 B]
Get:24 http://in.archive.ubuntu.com/ubuntu mantic-updates/main amd64 c-n-f Metadata [1,676 B]
Get:25 http://in.archive.ubuntu.com/ubuntu mantic-updates/restricted amd64 Packages [116 kB]
Get:26 https://security.ubuntu.com/ubuntu mantic-security/universe amd64 DEP-11 Metadata [3,860 B]
Get:27 https://security.ubuntu.com/ubuntu mantic-security/universe amd64 c-n-f Metadata [788 B]
Get:28 https://security.ubuntu.com/ubuntu mantic-security/multiverse amd64 Packages [2,096 B]
Get:29 https://security.ubuntu.com/ubuntu mantic-security/multiverse Translation-en [800 B]
Get:30 https://security.ubuntu.com/ubuntu mantic-security/multiverse amd64 c-n-f Metadata [222 B]
Get:31 http://in.archive.ubuntu.com/ubuntu mantic-updates/restricted Translation-en [18.1 kB]
Get:32 http://in.archive.ubuntu.com/ubuntu mantic-updates/restricted amd64 c-n-f Metadata [420 B]
Get:33 http://in.archive.ubuntu.com/ubuntu mantic-updates/universe amd64 Packages [21.4 kB]
Get:34 http://in.archive.ubuntu.com/ubuntu mantic-updates/universe Translation-en [9,060 B]
```

Now we need to login our azure account with azure cli just type `az login` to authenticate with your azure account

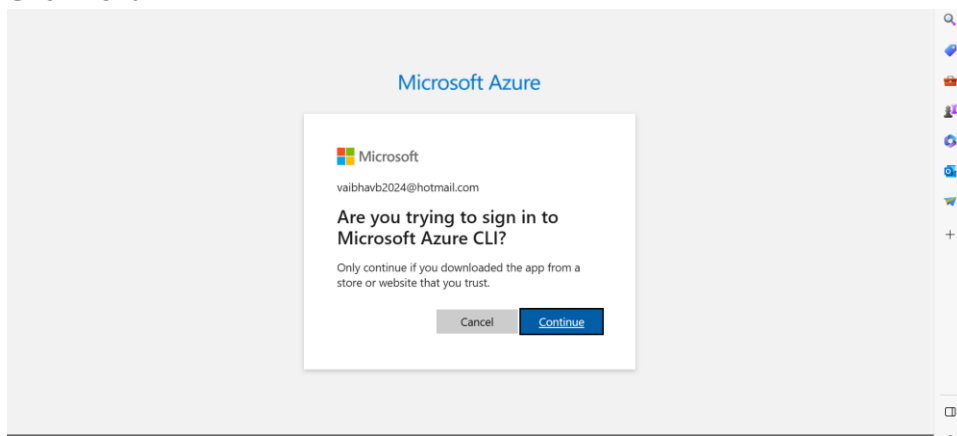


```
manatic@manatic-1-2:~$ az login
To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code SL8XNWUXY to authenticate.
```

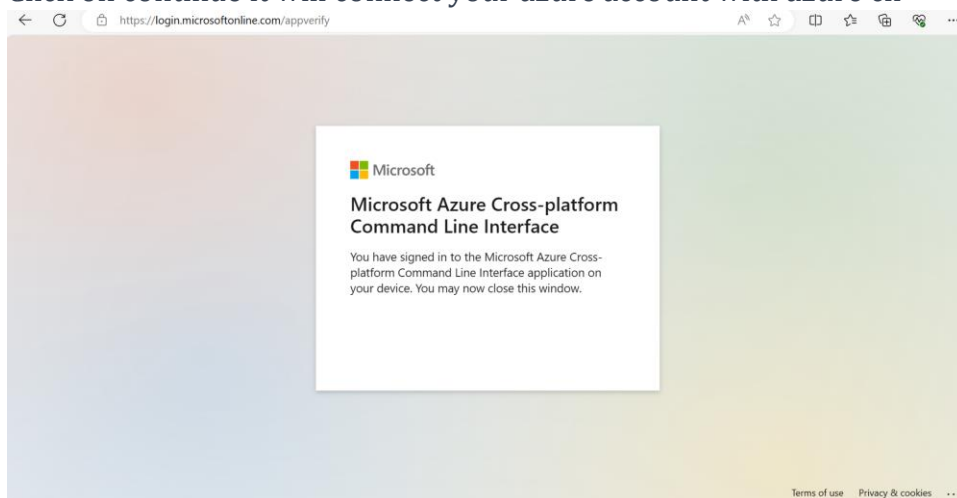
Just we need to click on this link and type the code given in cli to authenticate



Click next



Click on continue it will connect your azure account with azure cli



You can check your connection is successful in cli


```

manatic@manatic-1-2:~$ az login
To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code SL8XNWUXY to authenticate.
^Cmanatic@manatic-1-2:~$ az login
To sign in, use a web browser to open the page https://microsoft.com/devicelogin and enter the code IFD73R849 to authenticate.
IFD73R849The following tenants don't contain accessible subscriptions. Use 'az login --allow-no-subscriptions' to have tenant level access.
3655ea99-680b-4eca-8054-fe144dae1099 'vaibhav'
[
  {
    "cloudName": "AzureCloud",
    "homeTenantId": "3d11881a-6069-44b7-84b1-c6f31bef7cd0",
    "id": "199676de-c837-4aa5-b8cc-59ab0c011309",
    "isDefault": true,
    "managedByTenants": [],
    "name": "Azure subscription",
    "state": "Enabled",
    "tenantId": "3d11881a-6069-44b7-84b1-c6f31bef7cd0",
    "user": {
      "name": "vaibhavb2024@hotmail.com",
      "type": "user"
    }
  }
]
manatic@manatic-1-2:~$ IFD73R849

```

Step 2:

Install python3 and pip for python lib files

Sudo apt install python3

```

manatic@manatic-1-2:~$ sudo apt install python3
[sudo] password for manatic:
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
python3 is already the newest version (3.11.4-5).
python3 set to manually installed.
The following package was automatically installed and is no longer required:
  lynx-common
Use 'sudo apt autoremove' to remove it.
0 upgraded, 0 newly installed, 0 to remove and 17 not upgraded.
manatic@manatic-1-2:~$

```

Install pip package manager for python

```

manatic@manatic-1-2:~$ sudo apt install pip
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
Note, selecting 'python3-pip' instead of 'pip'
The following package was automatically installed and is no longer required:
  lynx-common
Use 'sudo apt autoremove' to remove it.
The following additional packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu build-essential dpkg-dev fakeroot g++ g++-13 gcc gcc-13 javascript-common
  libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan8 libbinutils libc-dev-bin libc-devtools libc6-dev
  libcc1-0 libcrypt-dev libctf-nobfd0 libctf0 libdpkg-perl libexpat1-dev libfakeroot libfile-fcntllock-perl libgcc-13-dev libgprofng0
  libhwspan0 libitm1 libjs-jquery libjs-sphinxdoc libjs-underscore liblsan0 libnsl-dev libpython3-dev libpython3.11-dev libquadmath0
  libstdc++13-dev libtirpc-dev libtsan2 libubsan1 linux-libc-dev lto-disabled-list make manpages-dev python3-dev
  python3-distutils python3-lib2to3 python3-setuptools python3-wheel python3.11-dev rpcsvc-proto zlib1g-dev
Suggested packages:
  binutils-doc gprofng-gui debian-keyring g++-multilib g++-13-multilib gcc-13-doc gcc-multilib autoconf automake libtool flex bison
  gcc-doc gcc-13-multilib gcc-13-locales apache2 | lighttpd | httpd glibc-doc bzip libstdc++-13-doc make-doc python-setuptools-doc
The following NEW packages will be installed:
  binutils binutils-common binutils-x86-64-linux-gnu build-essential dpkg-dev fakeroot g++ g++-13 gcc gcc-13 javascript-common
  libalgorithm-diff-perl libalgorithm-diff-xs-perl libalgorithm-merge-perl libasan8 libbinutils libc-dev-bin libc-devtools libc6-dev
  libcc1-0 libcrypt-dev libctf-nobfd0 libctf0 libdpkg-perl libexpat1-dev libfakeroot libfile-fcntllock-perl libgcc-13-dev libgprofng0
  libhwspan0 libitm1 libjs-jquery libjs-sphinxdoc libjs-underscore liblsan0 libnsl-dev libpython3-dev libpython3.11-dev libquadmath0
  libstdc++13-dev libtirpc-dev libtsan2 libubsan1 linux-libc-dev lto-disabled-list make manpages-dev python3-dev
  python3-distutils python3-lib2to3 python3-pip python3-setuptools python3-wheel python3.11-dev rpcsvc-proto zlib1g-dev
0 upgraded, 57 newly installed, 0 to remove and 17 not upgraded.
Need to get 69.6 MB of archives.
After this operation, 256 MB of additional disk space will be used.
Do you want to continue? [Y/n]

```

Now we need to install python packages to calculate cost

Pip install azure-identity

```

azureuser@sonar:~$ sudo pip install azure-identity
Collecting azure-identity
  Downloading azure_identity-1.15.0-py3-none-any.whl (164 kB)
    |#####| 164 kB 22.5 MB/s
Requirement already satisfied: cryptography>=2.5 in /usr/lib/python3/dist-packages (from azure-identity) (2.8)
Collecting msal-extensions<2.0.0,>=0.3.0
  Downloading msal_extensions-1.0.0-py2.py3-none-any.whl (19 kB)
Collecting msal<2.0.0,>=1.24.0
  Downloading msal-1.25.0-py2.py3-none-any.whl (97 kB)
    |#####| 97 kB 7.5 MB/s
Collecting azure-core<2.0.0,>=1.23.0
  Downloading azure_core-1.29.5-py3-none-any.whl (192 kB)
    |#####| 192 kB 68.1 MB/s
Collecting portalocker<3,>=1.0; python_version >= "3.5" and platform_system != "Windows"
  Downloading portalocker-2.8.2-py3-none-any.whl (17 kB)
Requirement already satisfied: PyJWT[crypto]<3,>=1.0.0 in /usr/lib/python3/dist-packages (from msal<2.0.0,>=1.24.0->azure-identity) (1.7.1)
Requirement already satisfied: requests<3,>=2.0.0 in /usr/lib/python3/dist-packages (from msal<2.0.0,>=1.24.0->azure-identity) (2.22.0)
Collecting typing-extensions>=4.6.0
  Downloading typing_extensions-4.8.0-py3-none-any.whl (31 kB)
Requirement already satisfied: six>=1.11.0 in /usr/lib/python3/dist-packages (from azure-core<2.0.0,>=1.23.0->azure-identity) (1.14.0)
Installing collected packages: portalocker, msal, msal-extensions, typing-extensions, azure-core, azure-identity
Successfully installed azure-core-1.29.5 azure-identity-1.15.0 msal-1.25.0 msal-extensions-1.0.0 portalocker-2.8.2 typing-extensions-4.8.0

```

Pip install azure-mgmt-consumption

```

azureuser@sonar:~$ sudo pip install azure-mgmt-consumption
Collecting azure-mgmt-consumption
  Downloading azure_mgmt_consumption-10.0.0-py3-none-any.whl (138 kB)
    |#####| 138 kB 27.1 MB/s
Collecting azure-mgmt-core<2.0.0,>=1.3.1
  Downloading azure_mgmt_core-1.4.0-py3-none-any.whl (27 kB)
Collecting azure-common=1.1
  Downloading azure_common-1.1.28-py2.py3-none-any.whl (14 kB)
Collecting msrest>=0.6.21
  Downloading msrest-0.7.1-py3-none-any.whl (85 kB)
    |#####| 85 kB 4.4 MB/s
Requirement already satisfied: azure-core<2.0.0,>=1.26.2 in /usr/local/lib/python3.8/dist-packages (from azure-mgmt-core<2.0.0,>=1.3.1->azure-mgmt-consumption) (1.29.5)
Collecting isodate>=0.6.0
  Downloading isodate-0.6.1-py2.py3-none-any.whl (41 kB)
    |#####| 41 kB 677 kB/s
Requirement already satisfied: requests<=2.16 in /usr/lib/python3/dist-packages (from msrest>=0.6.21->azure-mgmt-consumption) (2.22.0)
Requirement already satisfied: certifi>=2017.4.17 in /usr/lib/python3/dist-packages (from msrest>=0.6.21->azure-mgmt-consumption) (2019.11.28)
Collecting requests-oauthlib>=0.5.0
  Downloading requests_oauthlib-1.3.1-py2.py3-none-any.whl (23 kB)
Requirement already satisfied: six>=1.11.0 in /usr/lib/python3/dist-packages (from azure-core<2.0.0,>=1.26.2->azure-mgmt-core<2.0.0,>=1.3.1->azure-mgmt-consumption) (1.14.0)
Requirement already satisfied: typing-extensions>=4.6.0 in /usr/local/lib/python3.8/dist-packages (from azure-core<2.0.0,>=1.26.2->azure-mgmt-core<2.0.0,>=1.3.1->azure-mgmt-consumption) (4.8.0)
Requirement already satisfied: oauthlib>=3.0.0 in /usr/lib/python3/dist-packages (from requests-oauthlib>=0.5.0->msrest>=0.6.21->azure-mgmt-consumption) (3.1.0)
Installing collected packages: azure-mgmt-core, azure-common, isodate, requests-oauthlib, msrest, azure-mgmt-consumption
Successfully installed azure-common-1.1.28 azure-mgmt-consumption-10.0.0 azure-mgmt-core-1.4.0 isodate-0.6.1 msrest-0.7.1 requests-oauthlib-1.3.1

```

You can check the pip list for versions

```

azureuser@sonar:~$ pip list
Package            Version
-----
attrs              19.3.0
Automat            0.8.0
azure-common       1.1.28
azure-core         1.29.5
azure-identity     1.15.0
azure-mgmt-consumption 10.0.0
azure-mgmt-core    1.4.0

```

Now create file vim azcost.py <code will be provided separately>

And run this file python3 azcost.py

```

azureuser@sonar:~$ python3 azcost.py
Daily costs saved to azure_daily_costs.csv
azureuser@sonar:~$

```

Azure costs will be saved in .csv file

You can browse this file for cost

Cat azure_daily_costs.csv

```

azureuser@sonar:~$ cat azure_daily_costs.csv
MeterId,UsageStart,UsageEnd,UsageDate,Cost
0fc067a1-65d2-46da-b24b-7a9cbe2c69bd,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-02 00:00:00+00:00,0.0
2c57ed84-f939-4f5c-ba90-782349a367b8,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-01 00:00:00+00:00,1.19793679159
9c150bf9-2bad-430e-a53c-c213804f49ef,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-03 00:00:00+00:00,9.424128
9c150bf9-2bad-430e-a53c-c213804f49ef,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-03 00:00:00+00:00,9.424128
6860c782-bbcc-41ed-a218-fb308dd0942e,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-01 00:00:00+00:00,0.253337096774193
0fc067a1-65d2-46da-b24b-7a9cbe2c69bd,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-01 00:00:00+00:00,0.0
6860c782-bbcc-41ed-a218-fb308dd0942e,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-02 00:00:00+00:00,0.253337096774193
2c57ed84-f939-4f5c-ba90-782349a367b8,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-01 00:00:00+00:00,2.450325255525
9c150bf9-2bad-430e-a53c-c213804f49ef,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-01 00:00:00+00:00,9.424128
9c150bf9-2bad-430e-a53c-c213804f49ef,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-04 00:00:00+00:00,0.392672
9c150bf9-2bad-430e-a53c-c213804f49ef,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-04 00:00:00+00:00,0.392672
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9c150bf9-2bad-430e-a53c-c213804f49ef,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-04 00:00:00+00:00,0.392672
9c150bf9-2bad-430e-a53c-c213804f49ef,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-02 00:00:00+00:00,9.424128
0fc067a1-65d2-46da-b24b-7a9cbe2c69bd,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-03 00:00:00+00:00,0.0
9c150bf9-2bad-430e-a53c-c213804f49ef,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-04 00:00:00+00:00,0.392672
9c150bf9-2bad-430e-a53c-c213804f49ef,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-01 00:00:00+00:00,9.424128
6860c782-bbcc-41ed-a218-fb308dd0942e,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-03 00:00:00+00:00,0.253337096774193
5101ea73-2a5b-4120-b00e-30c13185e5a5,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-03 00:00:00+00:00,13.821868727712
dbefcfc1-e3f6-409b-beed-9cd7b00724a5,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-01 00:00:00+00:00,0.000847437409144
dbefcfc1-e3f6-409b-beed-9cd7b00724a5,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-04 00:00:00+00:00,1.658836808e-06
9c150bf9-2bad-430e-a53c-c213804f49ef,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-02 00:00:00+00:00,9.424128
0fc067a1-65d2-46da-b24b-7a9cbe2c69bd,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-04 00:00:00+00:00,0.0
dbefcfc1-e3f6-409b-beed-9cd7b00724a5,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-01 00:00:00+00:00,3.94961145e-07
2c57ed84-f939-4f5c-ba90-782349a367b8,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-03 00:00:00+00:00,78.40884
9c150bf9-2bad-430e-a53c-c213804f49ef,2023-10-18 00:00:00+00:00,2023-11-17 00:00:00+00:00,2023-11-02 00:00:00+00:00,9.424128

```

Done this is raw need to do some detailing and corrections