```
aadarshsubramanian@Aadarshs-MacBook-Pro Downloads % ssh -i SacHax_proj.pem linux1@148.100.98.72
Welcome to Ubuntu 22.04.1 LTS (GNU/Linux 5.15.0-56-generic s390x)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage

  System information as of Sun Nov  5 03:54:49 AM UTC 2023

  System load:  0.13916015625     Processes:               96
  Usage of /:   4.1% of 49.11GB   Users logged in:         0
  Memory usage: 23%               IPv4 address for enc1000: 148.100.98.72
  Swap usage:   0%

 * Super-optimized for small spaces - read how we shrank the memory
   footprint of MicroK8s to make it the smallest full K8s around.

   https://ubuntu.com/blog/microk8s-memory-optimisation

0 updates can be applied immediately.


The list of available updates is more than a week old.
To check for new updates run: sudo apt update

 ___ ____  __  __      _     _                    ___   _   _ _____
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|___|____/|_|  |_|    |_____|_|_| |_|\__,_/_/\_\\___/|_| \_|_____|

================================================================================
Welcome to the IBM LinuxONE Community Cloud!

This server is for authorized users only. All activity is logged and monitored.
Individuals using this server must abide to the Terms and Conditions listed here:
https://www.ibm.com/community/z/ibm-linuxone-community-cloud-terms-and-conditions/
Your access will be revoked for any non-compliance.
```
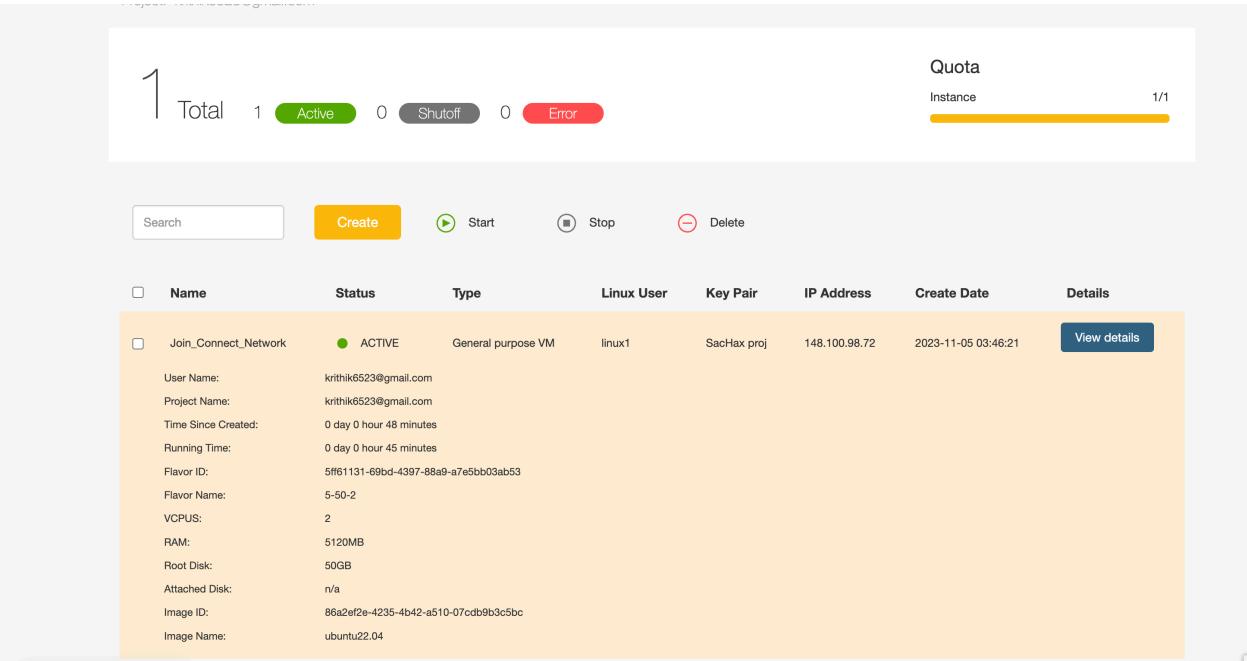
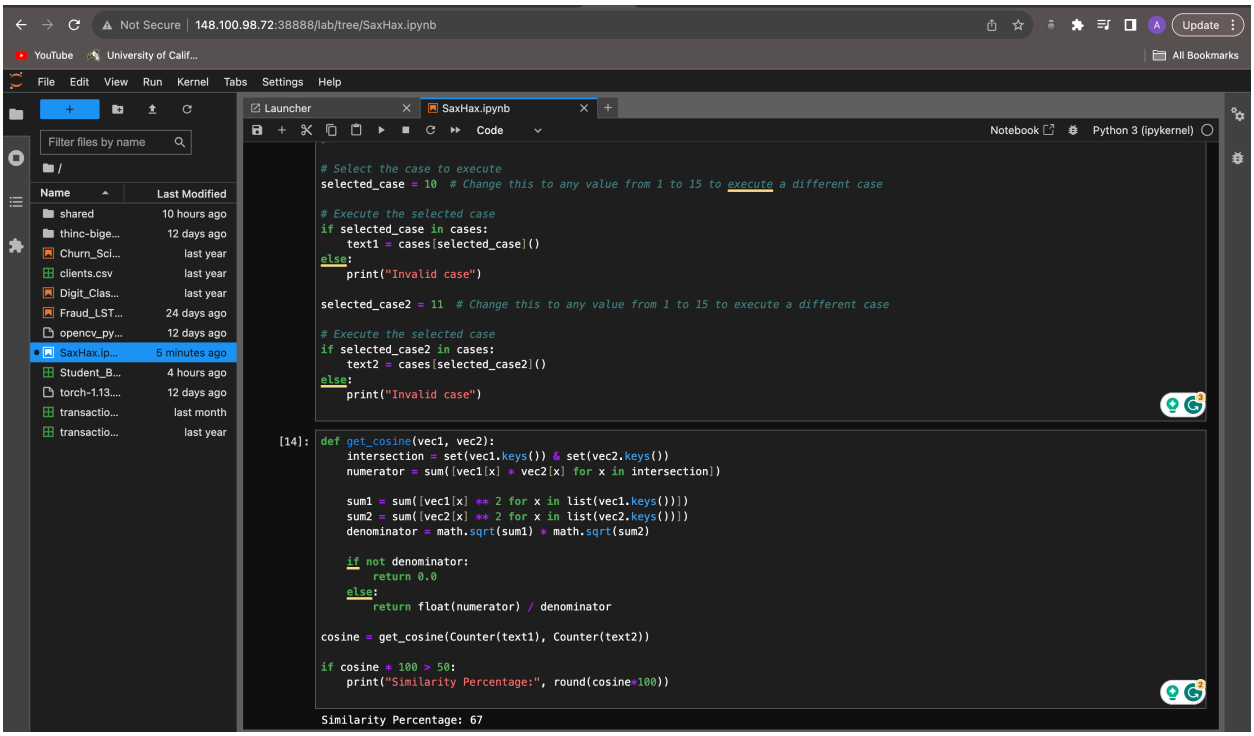

```
linux1@join-connect-network:~$ docker login -u l1cc registry.linuxone.cloud.marist.edu
Password:
WARNING! Your password will be stored unencrypted in /home/linux1/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
linux1@join-connect-network:~$ docker pull registry.linuxone.cloud.marist.edu/jupyterlab-image-s390x:latest
latest: Pulling from jupyterlab-image-s390x
f97967c51aac: Pulling fs layer
39638fb96ecf: Pulling fs layer
748c1230546d: Pulling fs layer
246b1a243732: Pulling fs layer
cb1cdeb81087: Pulling fs layer
c0924b2a731f: Pulling fs layer
c6f01916ac4c: Pulling fs layer
ed5fc8f85c18: Pulling fs layer
fd5248f1430c: Pulling fs layer
c619c1496369: Pull complete
a257faa8c41c: Pull complete
bf3d29e9ecd5: Pull complete
87edde2be0c1: Pull complete
5ac7b00e4e38: Pull complete
64cf8a2f12e2: Pull complete
1c2556170215: Pull complete
dceb406f783a: Pull complete
ceb4f26c48d2: Pull complete
2d69aff03c80: Pull complete
5ac3a68ca6a4: Pull complete
d2efd9668f7a: Pull complete
cfa1e6299df3: Pull complete
224410dcf8e8: Pull complete
96f66b43c881: Pull complete
5a00435d9508: Pull complete
338d9a5779ec: Pull complete
c9fb8e27b1e7: Pull complete
3088497a60e0: Pull complete


linux1@join-connect-network:~$ sudo usermod -aG docker $USER; newgrp docker
linux1@join-connect-network:~$ sudo systemctl start docker
linux1@join-connect-network:~$ docker login -u l1cc registry.linuxone.cloud.marist.edu
Password:
WARNING! Your password will be stored unencrypted in /home/linux1/.docker/config.json.
Configure a credential helper to remove this warning. See
https://docs.docker.com/engine/reference/commandline/login/#credentials-store

Login Succeeded
```

```
linux1@join-connect-network:~$ docker run -p 38888:8888 --name notebook -v /home/linux1/shared:/home/jovyan/shared -d registry.linuxone.
cloud.marist.edu/jupyterlab-image-s390x:latest jupyter lab --ServerApp.token='Your_Token'
4ebc993797b4815f9006615c51e173b27994a3393acb64b200bf132bac94274d
```


1 Total
1 Active
0 Shutoff
0 Error
Quota
Instance 1/1
Search
Create
Start
Stop
Delete
Name
Status
Type
Linux User
Key Pair
IP Address
Create Date
Details
Join_Connect_Network
ACTIVE
General purpose VM
linux1
SacHax proj
148.100.98.72
2023-11-05 03:46:21
View details
User Name: krithik6523@gmail.com
Project Name: krithik6523@gmail.com
Time Since Created: 0 day 0 hour 48 minutes
Running Time: 0 day 0 hour 45 minutes
Flavor ID: 5ff61131-69bd-4397-88a9-a7e5bb03ab53
Flavor Name: 5-50-2
VCPUS: 2
RAM: 5120MB
Root Disk: 50GB
Attached Disk: n/a
Image ID: 86a2ef2e-4235-4b42-a510-07cdb9b3c5bc
Image Name: ubuntu22.04


Not Secure | 148.100.98.72:38888/lab/tree/SaxHax.ipynb
Update
YouTube
University of Calif...
All Bookmarks
File Edit View Run Kernel Tabs Settings Help
Launcher
SaxHax.ipynb
Code
Notebook
Python 3 (ipykernel)
Filter files by name
Name
Last Modified
shared 10 hours ago
thinc-bige... 12 days ago
Churn_Sci... last year
clients.csv last year
Digit_Clas... last year
Fraud_LST... 24 days ago
opencv_py... 12 days ago
SaxHax.ip... 5 minutes ago
Student_B... 4 hours ago
torch-1.13.... 12 days ago
transactio... last month
transactio... last year
# Select the case to execute
selected_case = 10 # Change this to any value from 1 to 15 to execute a different case
# Execute the selected case
if selected_case in cases:
text1 = cases[selected_case]()
else:
print("Invalid case")
selected_case2 = 11 # Change this to any value from 1 to 15 to execute a different case
# Execute the selected case
if selected_case2 in cases:
text2 = cases[selected_case2]()
else:
print("Invalid case")
[14]:
def get_cosine(vec1, vec2):
intersection = set(vec1.keys()) & set(vec2.keys())
numerator = sum([vec1[x] * vec2[x] for x in intersection])
sum1 = sum([vec1[x] ** 2 for x in list(vec1.keys())])
sum2 = sum([vec2[x] ** 2 for x in list(vec2.keys())])
denominator = math.sqrt(sum1) * math.sqrt(sum2)
if not denominator:
return 0.0
else:
return float(numerator) / denominator
cosine = get_cosine(Counter(text1), Counter(text2))
if cosine * 100 > 50:
print("Similarity Percentage:", round(cosine*100))
Similarity Percentage: 67