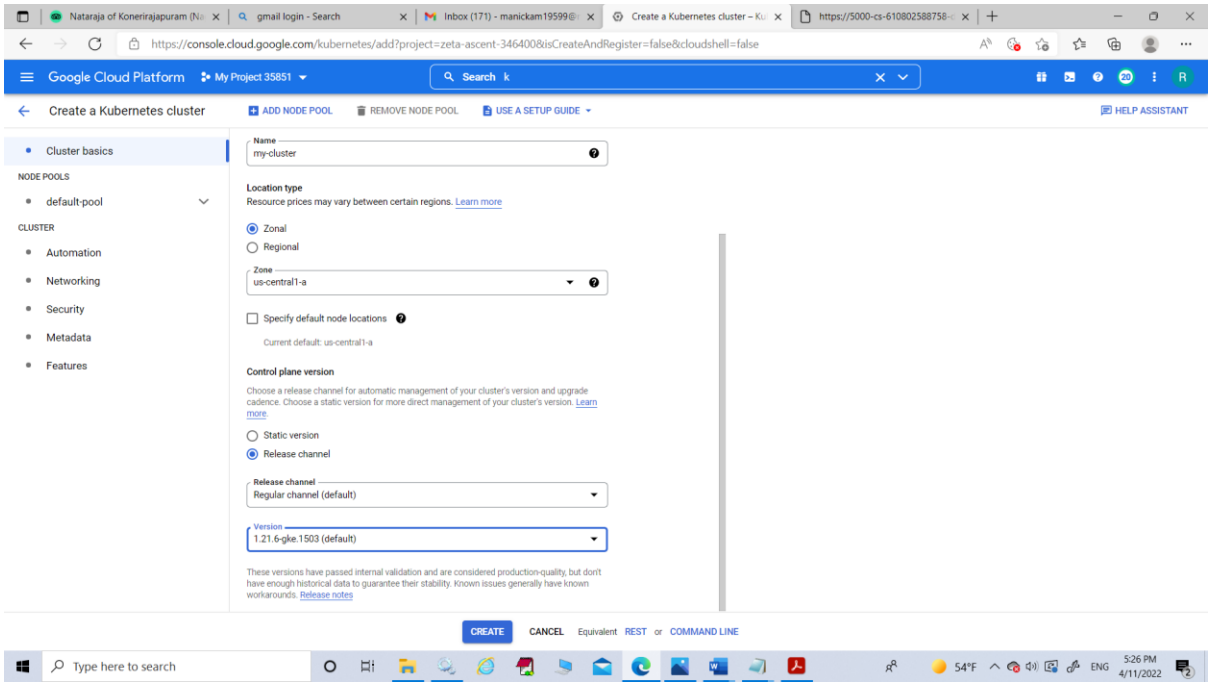
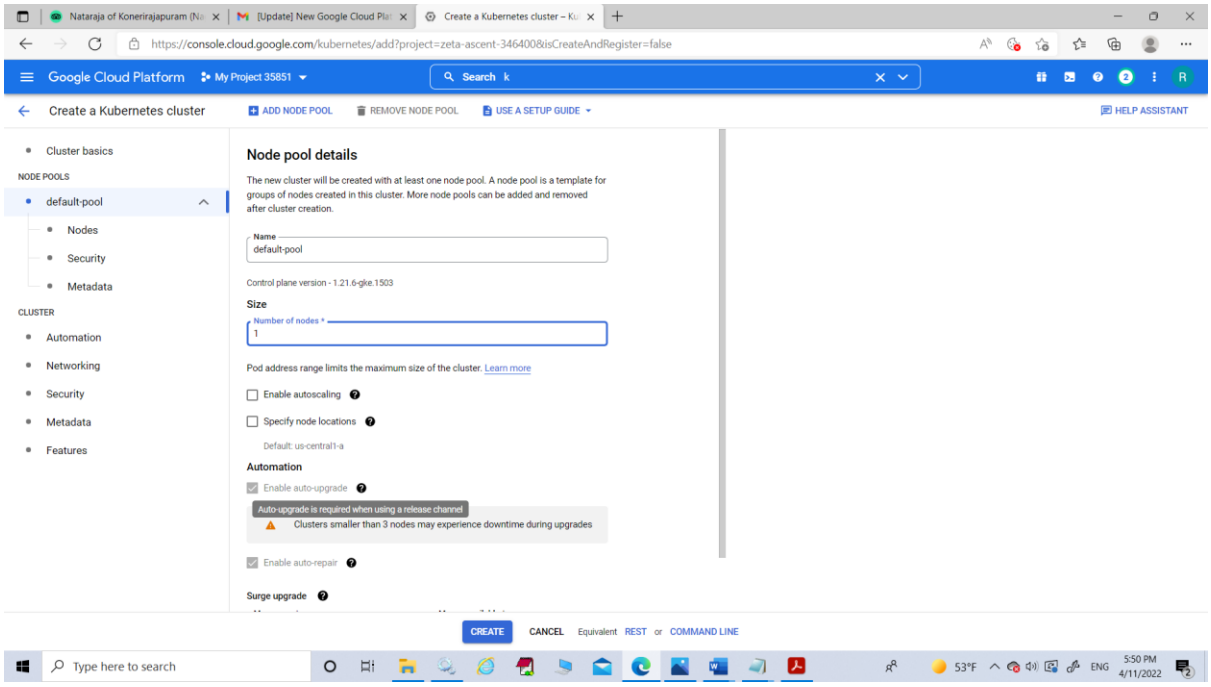
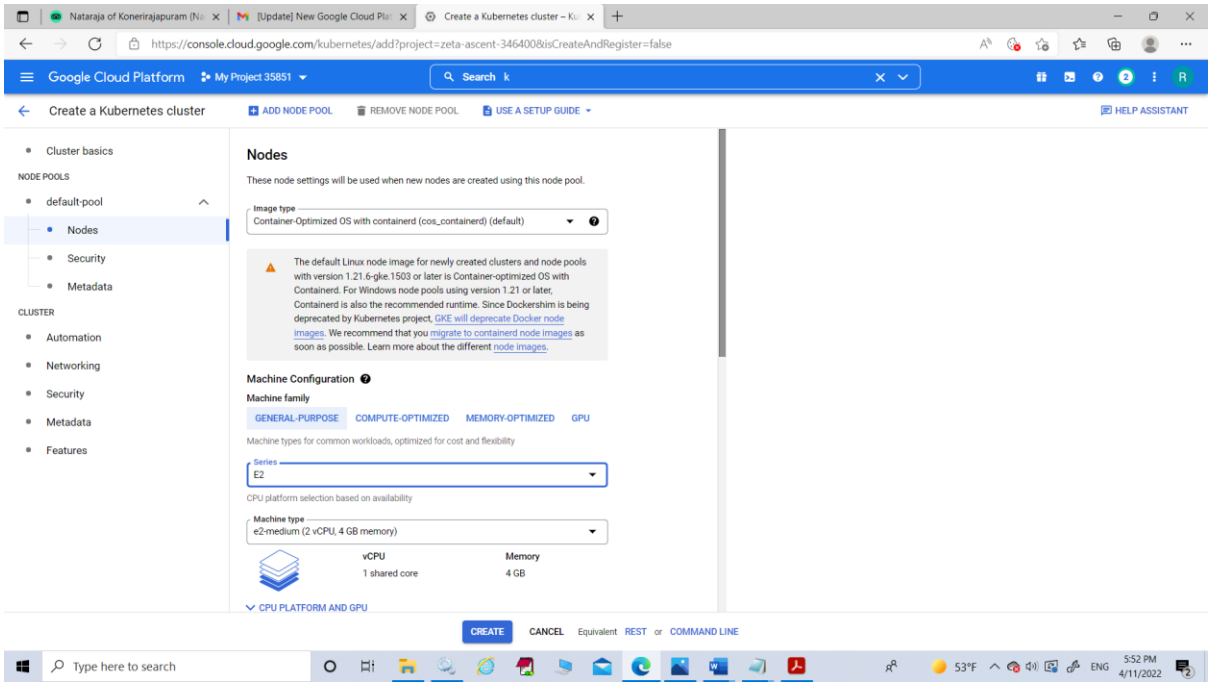
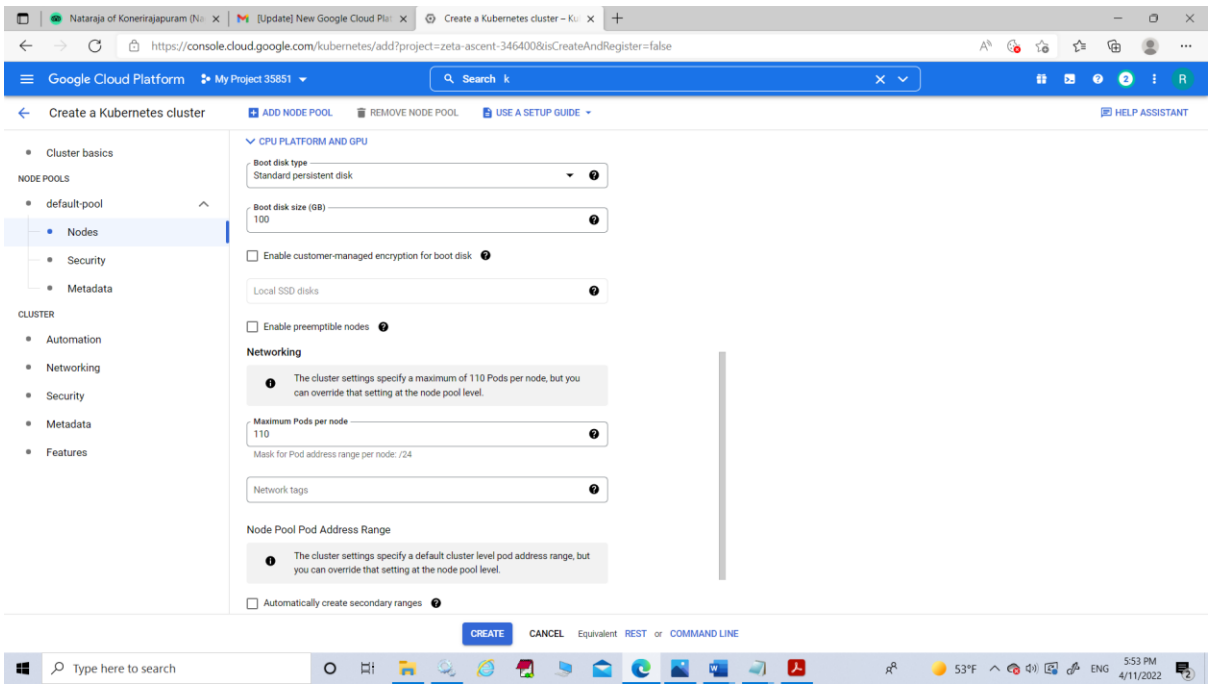
Cluster container creation:




Nataraja of Konerirajapuram (Na
[Update] New Google Cloud Plat
Create a Kubernetes cluster – Ku
https://console.cloud.google.com/kubernetes/add?project=zeta-ascent-346400&isCreateAndRegister=false
Google Cloud Platform
My Project 35851
Search k
Create a Kubernetes cluster
ADD NODE POOL
REMOVE NODE POOL
USE A SETUP GUIDE
HELP ASSISTANT
Cluster basics
NODE POOLS
default-pool
Nodes
Security
Metadata
CLUSTER
Automation
Networking
Security
Metadata
Features
Nodes
These node settings will be used when new nodes are created using this node pool.
Image type
Container-Optimized OS with containerd (cos_containerd) (default)
The default Linux node image for newly created clusters and node pools with version 1.21.6-gke.1503 or later is Container-optimized OS with Containerd. For Windows node pools using version 1.21 or later, Containerd is also the recommended runtime. Since Dockershim is being deprecated by Kubernetes project, GKE will deprecate Docker node images. We recommend that you migrate to containerd node images as soon as possible. Learn more about the different node images.
Machine Configuration
Machine family
GENERAL-PURPOSE
COMPUTE-OPTIMIZED
MEMORY-OPTIMIZED
GPU
Machine types for common workloads, optimized for cost and flexibility
Series
E2
CPU platform selection based on availability
Machine type
e2-medium (2 vCPU, 4 GB memory)
vCPU
1 shared core
Memory
4 GB
CPU PLATFORM AND GPU
CREATE
CANCEL
Equivalent REST or COMMAND LINE
Type here to search
53°F
ENG
5:52 PM
4/11/2022


Nataraja of Konerirajapuram (Na
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default-pool
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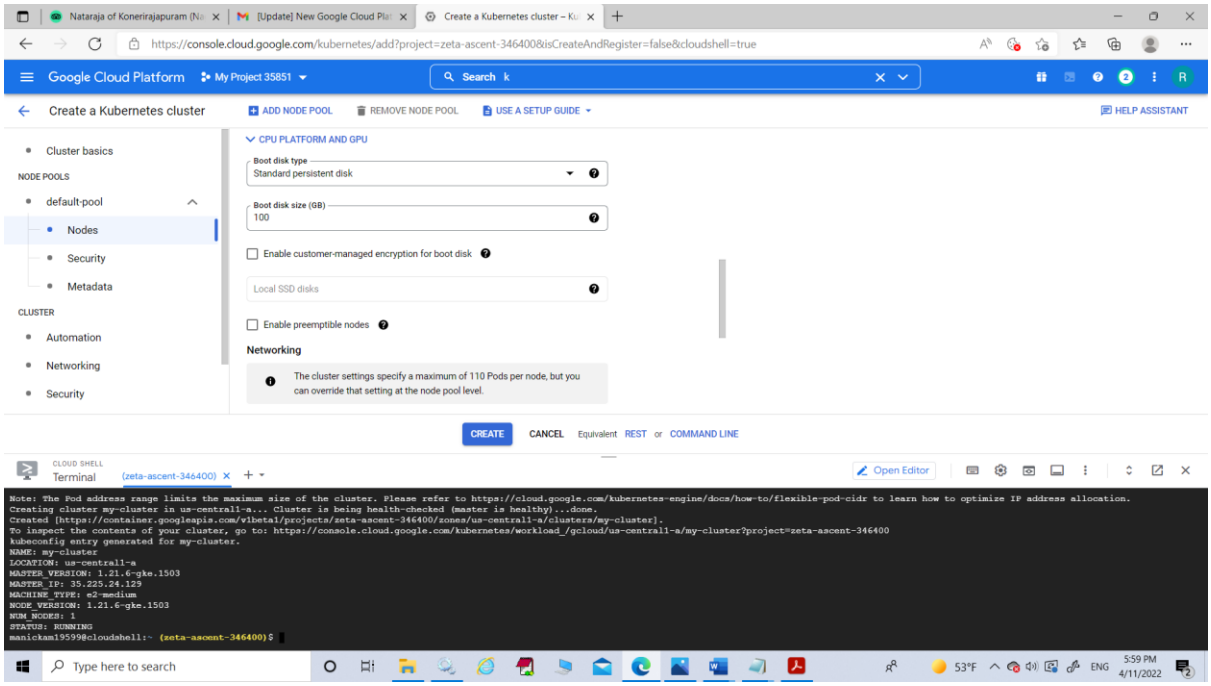
Metadata
CLUSTER
Automation
Networking
Security
Metadata
Features
CPU PLATFORM AND GPU
Boot disk type
Standard persistent disk
Boot disk size (GB)
100
Enable customer-managed encryption for boot disk
Local SSD disks
Enable preemptible nodes
Networking
The cluster settings specify a maximum of 110 Pods per node, but you can override that setting at the node pool level.
Maximum Pods per node
110
Mask for Pod address range per node: /24
Network tags
Node Pool Pod Address Range
The cluster settings specify a default cluster level pod address range, but you can override that setting at the node pool level.
Automatically create secondary ranges
CREATE
CANCEL
Equivalent REST or COMMAND LINE
Type here to search
53°F
ENG
5:53 PM
4/11/2022


Nataraja of Konerirajapuram (Na
[Update] New Google Cloud Plat
Create a Kubernetes cluster – Ku
https://console.cloud.google.com/kubernetes/add?project=zeta-ascent-346400&isCreateAndRegister=false&cloudshell=true
Google Cloud Platform
My Project 35851
Search k
Create a Kubernetes cluster
ADD NODE POOL
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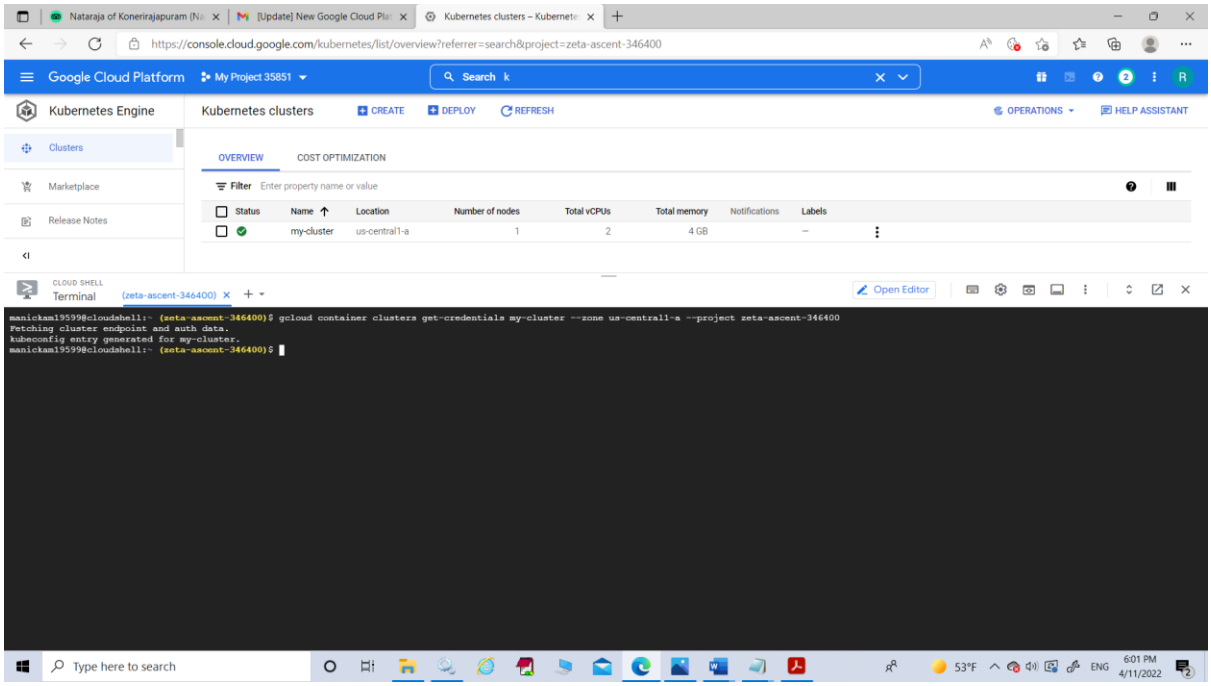
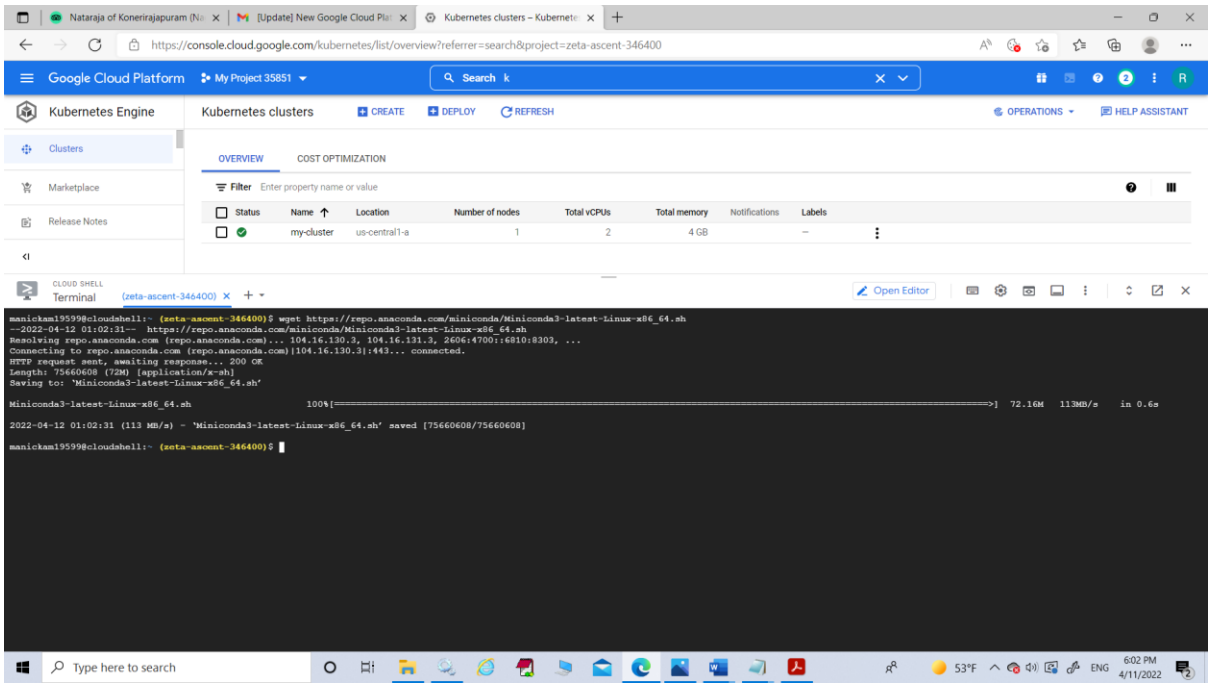
Security
CPU PLATFORM AND GPU
Boot disk type
Standard persistent disk
Boot disk size (GB)
100
Enable customer-managed encryption for boot disk
Local SSD disks
Enable preemptible nodes
Networking
The cluster settings specify a maximum of 110 Pods per node, but you can override that setting at the node pool level.
CREATE
CANCEL
Equivalent REST or COMMAND LINE
CLOUD SHELL
Terminal
(zeta-ascent-346400)
Open Editor
Note: The Pod address range limits the maximum size of the cluster. Please refer to https://cloud.google.com/kubernetes-engine/docs/how-to/flexible-pod-cidr to learn how to optimize IP address allocation.
Creating cluster my-cluster in us-central1-a... Cluster is being health-checked (master is healthy)...done.
Created [https://container.googleapis.com/v1beta1/projects/zeta-ascent-346400/zones/us-central1-a/clusters/my-cluster].
To inspect the contents of your cluster, go to: https://console.cloud.google.com/kubernetes/workload_/gcloud/us-central1-a/my-cluster?project=zeta-ascent-346400
kubeconfig entry generated for my-cluster.
NAME: my-cluster
LOCATION: us-central1-a
MASTER_VERSION: 1.21.6-gke.1503
MASTER_IP: 35.225.24.129
MACHINE_TYPE: e2-medium
NODE_VERSION: 1.21.6-gke.1503
NUM_NODES: 1
STATUS: RUNNING
manickam19599@cloudshell:~ (zeta-ascent-346400)$
Type here to search
53°F
ENG
5:59 PM
4/11/2022

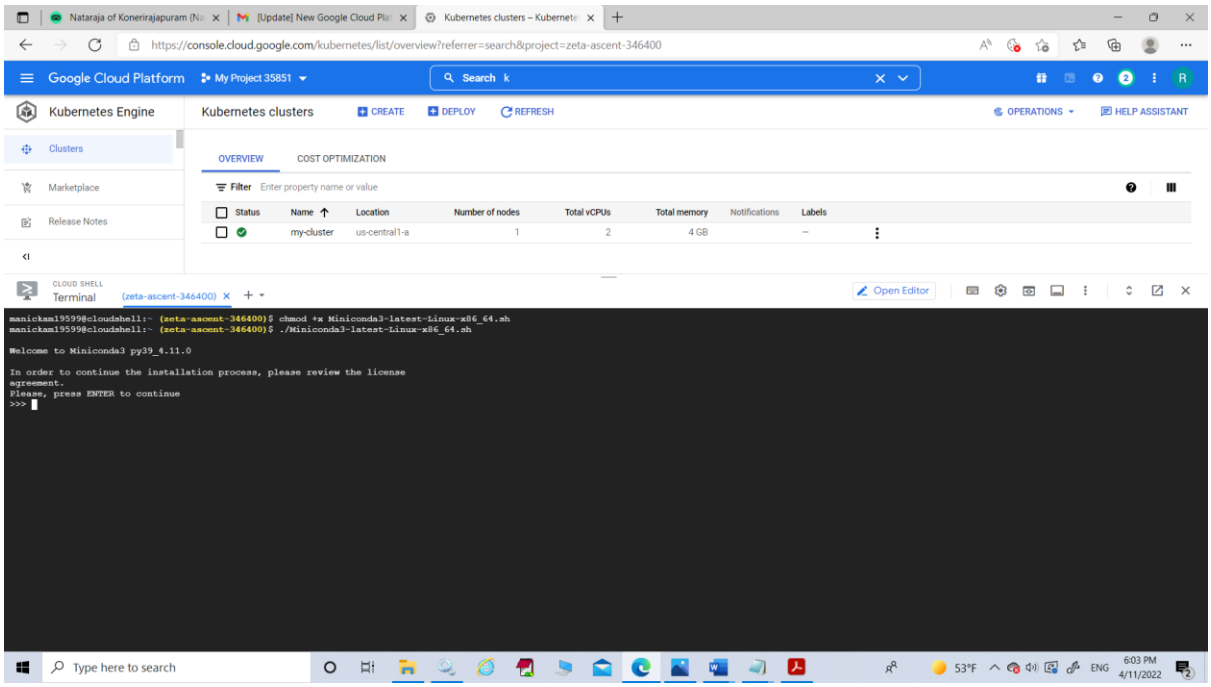

Google Cloud Platform
My Project 35851
Search k
Kubernetes Engine
Kubernetes clusters
CREATE
DEPLOY
REFRESH
OPERATIONS
HELP ASSISTANT
Clusters
Marketplace
Release Notes
OVERVIEW
COST OPTIMIZATION
Filter Enter property name or value
Status Name Location Number of nodes Total vCPUs Total memory Notifications Labels
my-cluster us-central1-a 1 2 4 GB –
CLOUD SHELL
Terminal
(zeta-ascent-346400)
Open Editor
manickam19599@cloudshell:~ (zeta-ascent-346400)$ gcloud container clusters get-credentials my-cluster --zone us-central1-a --project zeta-ascent-346400
Fetching cluster endpoint and auth data.
kubeconfig entry generated for my-cluster.
manickam19599@cloudshell:~ (zeta-ascent-346400)$
Type here to search
53°F
ENG
6:01 PM
4/11/2022

**Download the latest shell script**
wget https://repo.anaconda.com/miniconda/Miniconda3-latest-Linux-x86_64.sh

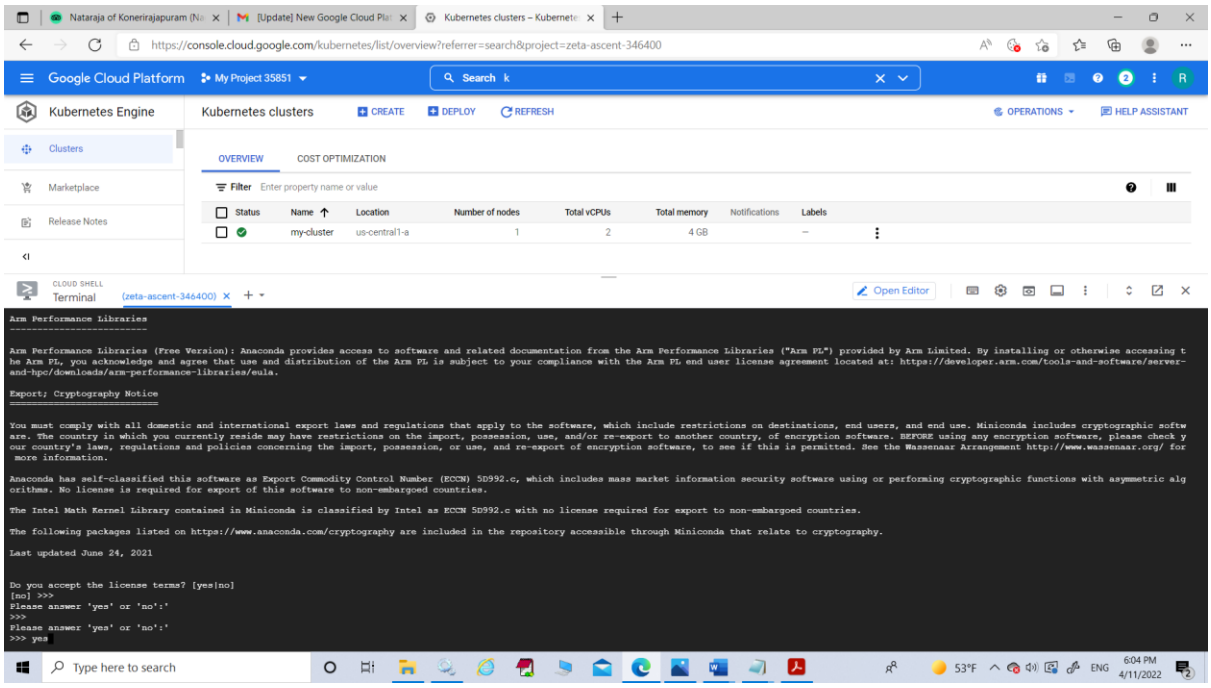
**Make the miniconda installation script executable**
chmod +x Miniconda3-latest-Linux-x86_64.sh

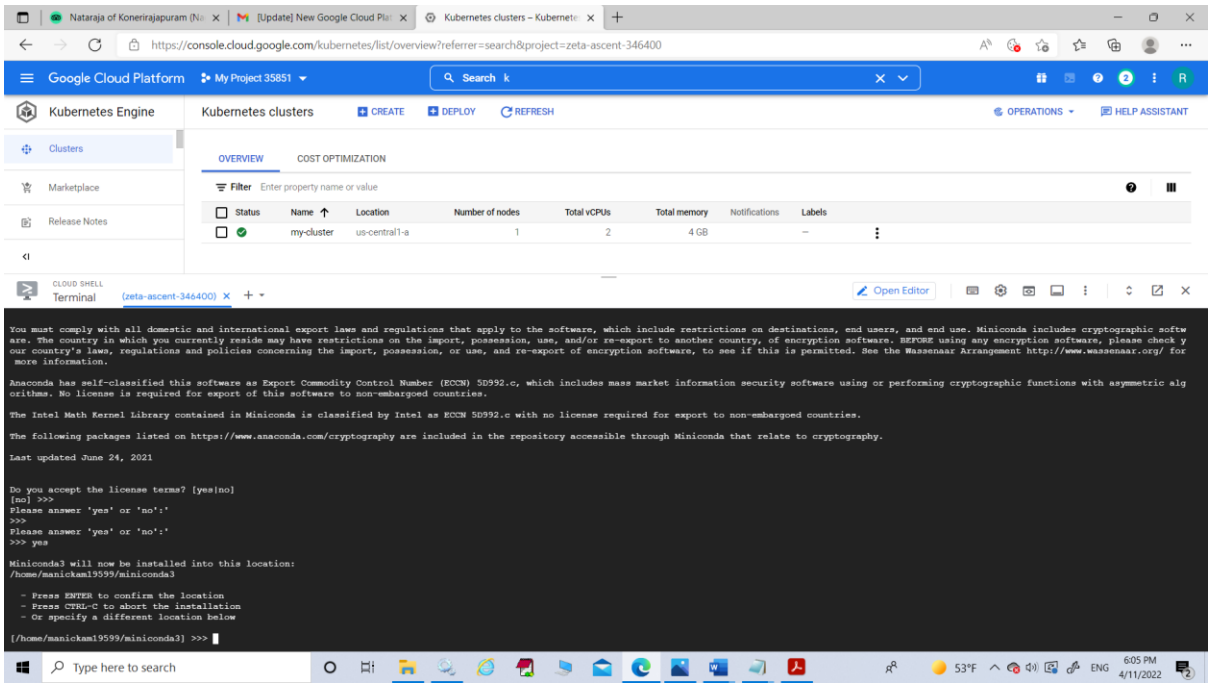
**Run miniconda installation script**
./Miniconda3-latest-Linux-x86_64.sh



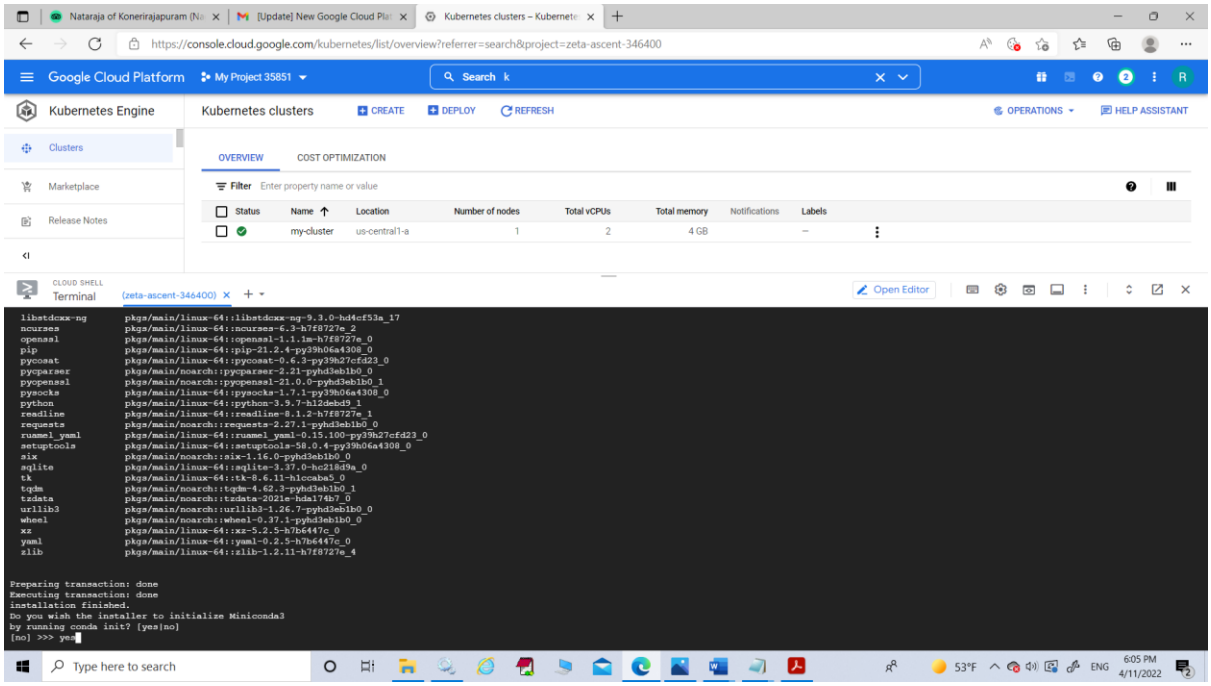



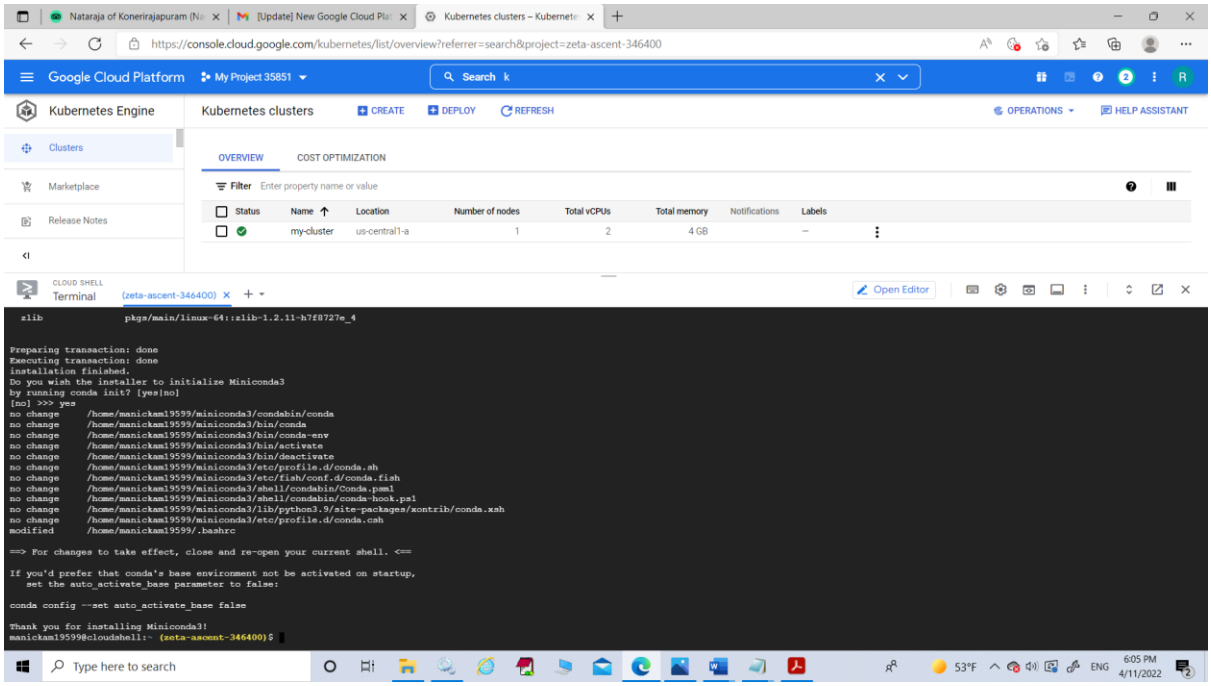
Accept license - yes




Default path :yes


Nataraja of Konerirajapuram (Na
[Update] New Google Cloud Plat
Kubernetes clusters – Kubernete
https://console.cloud.google.com/kubernetes/list/overview?referrer=search&project=zeta-ascent-346400
Google Cloud Platform
My Project 35851
Search k
Kubernetes Engine
Kubernetes clusters
CREATE
DEPLOY
REFRESH
OPERATIONS
HELP ASSISTANT
Clusters
Marketplace
Release Notes
OVERVIEW
COST OPTIMIZATION
Filter Enter property name or value
Status Name Location Number of nodes Total vCPUs Total memory Notifications Labels
my-cluster us-central1-a 1 2 4 GB –
CLOUD SHELL
Terminal
(zeta-ascent-346400)
Open Editor
libstdcxx-ng pkgs/main/linux-64::libstdcxx-ng-9.3.0-hd4cf53a_17
ncurses pkgs/main/linux-64::ncurses-6.3-h7f8727e_2
openssl pkgs/main/linux-64::openssl-1.1.1m-h7f8727e_0
pip pkgs/main/linux-64::pip-21.2.4-py39h06a4308_0
pycosat pkgs/main/linux-64::pycosat-0.6.3-py39h27cfd23_0
pycparser pkgs/main/noarch::pycparser-2.21-pyhd3eb1b0_0
pyopenssl pkgs/main/noarch::pyopenssl-21.0.0-pyhd3eb1b0_1
pysocks pkgs/main/linux-64::pysocks-1.7.1-py39h06a4308_0
python pkgs/main/linux-64::python-3.9.7-h12debd9_1
readline pkgs/main/linux-64::readline-8.1.2-h7f8727e_1
requests pkgs/main/noarch::requests-2.27.1-pyhd3eb1b0_0
ruamel_yaml pkgs/main/linux-64::ruamel_yaml-0.15.100-py39h27cfd23_0
setuptools pkgs/main/linux-64::setuptools-58.0.4-py39h06a4308_0
six pkgs/main/noarch::six-1.16.0-pyhd3eb1b0_0
sqlite pkgs/main/linux-64::sqlite-3.37.0-hc218d9a_0
tk pkgs/main/linux-64::tk-8.6.11-h1ccaba5_0
tqdm pkgs/main/noarch::tqdm-4.62.3-pyhd3eb1b0_1
tzdata pkgs/main/noarch::tzdata-2021e-hda174b7_0
urllib3 pkgs/main/noarch::urllib3-1.26.7-pyhd3eb1b0_0
wheel pkgs/main/noarch::wheel-0.37.1-pyhd3eb1b0_0
xz pkgs/main/linux-64::xz-5.2.5-h7b6447c_0
yaml pkgs/main/linux-64::yaml-0.2.5-h7b6447c_0
zlib pkgs/main/linux-64::zlib-1.2.11-h7f8727e_4
Preparing transaction: done
Executing transaction: done
installation finished.
Do you wish the installer to initialize Miniconda3
by running conda init? [yes|no]
[no] >>> yes
Type here to search
53°F
ENG
6:05 PM
4/11/2022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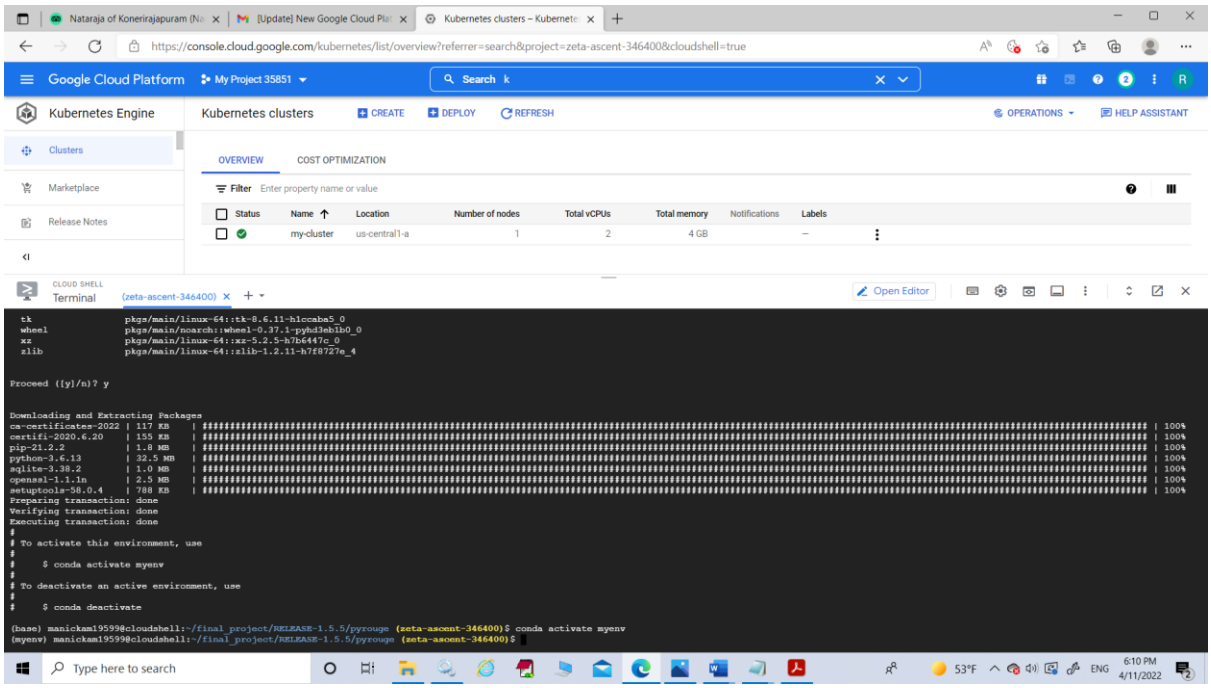
Filter Enter property name or value
Status Name Location Number of nodes Total vCPUs Total memory Notifications Labels
my-cluster us-central1-a 1 2 4 GB –
CLOUD SHELL
Terminal
(zeta-ascent-346400)
Open Editor
zlib pkgs/main/linux-64::zlib-1.2.11-h7f8727e_4
Preparing transaction: done
Executing transaction: done
installation finished.
Do you wish the installer to initialize Miniconda3
by running conda init? [yes|no]
[no] >>> yes
no change /home/manickam19599/miniconda3/condabin/conda
no change /home/manickam19599/miniconda3/bin/conda
no change /home/manickam19599/miniconda3/bin/conda-env
no change /home/manickam19599/miniconda3/bin/activate
no change /home/manickam19599/miniconda3/bin/deactivate
no change /home/manickam19599/miniconda3/etc/profile.d/conda.sh
no change /home/manickam19599/miniconda3/etc/fish/conf.d/conda.fish
no change /home/manickam19599/miniconda3/shell/condabin/Conda.psm1
no change /home/manickam19599/miniconda3/shell/condabin/conda-hook.ps1
no change /home/manickam19599/miniconda3/lib/python3.9/site-packages/xontrib/conda.xsh
no change /home/manickam19599/miniconda3/etc/profile.d/conda.csh
modified /home/manickam19599/.bashrc
==> For changes to take effect, close and re-open your current shell. <==
If you'd prefer that conda's base environment not be activated on startup,
set the auto_activate_base parameter to false:
conda config --set auto_activate_base false
Thank you for installing Miniconda3!
manickam19599@cloudshell:~ (zeta-ascent-346400)$
Type here to search
53°F
ENG
6:05 PM
4/11/2022

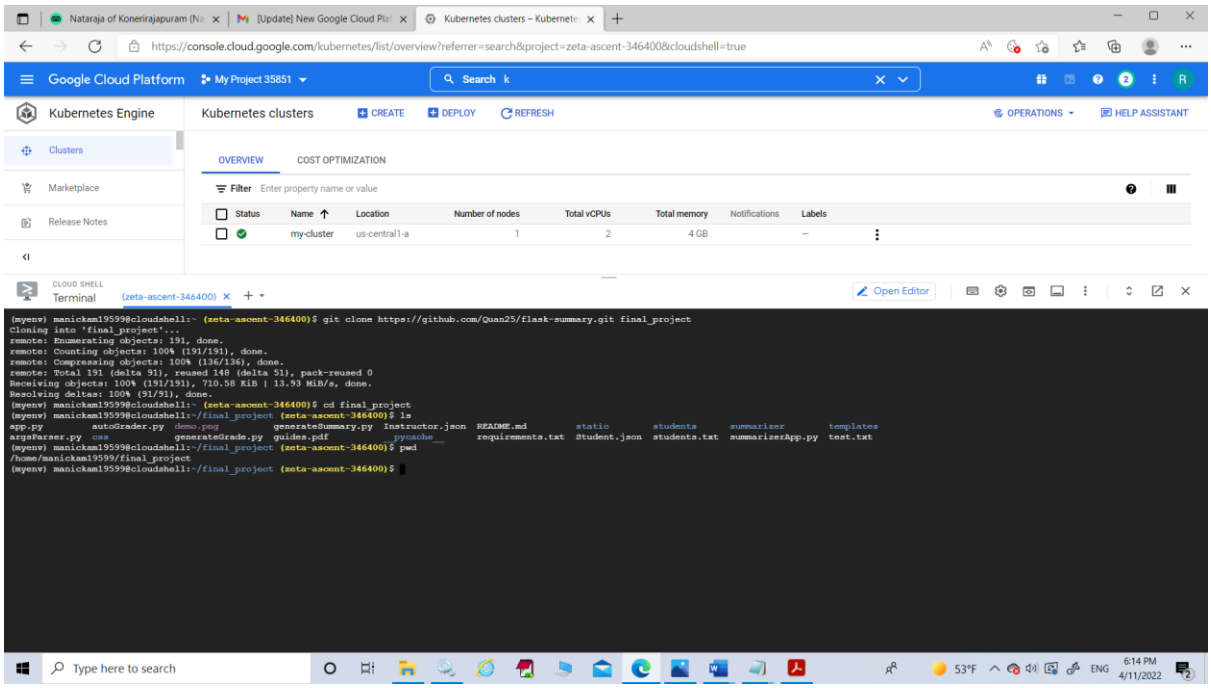
conda create -n myenv python=3.6

conda activate myenv

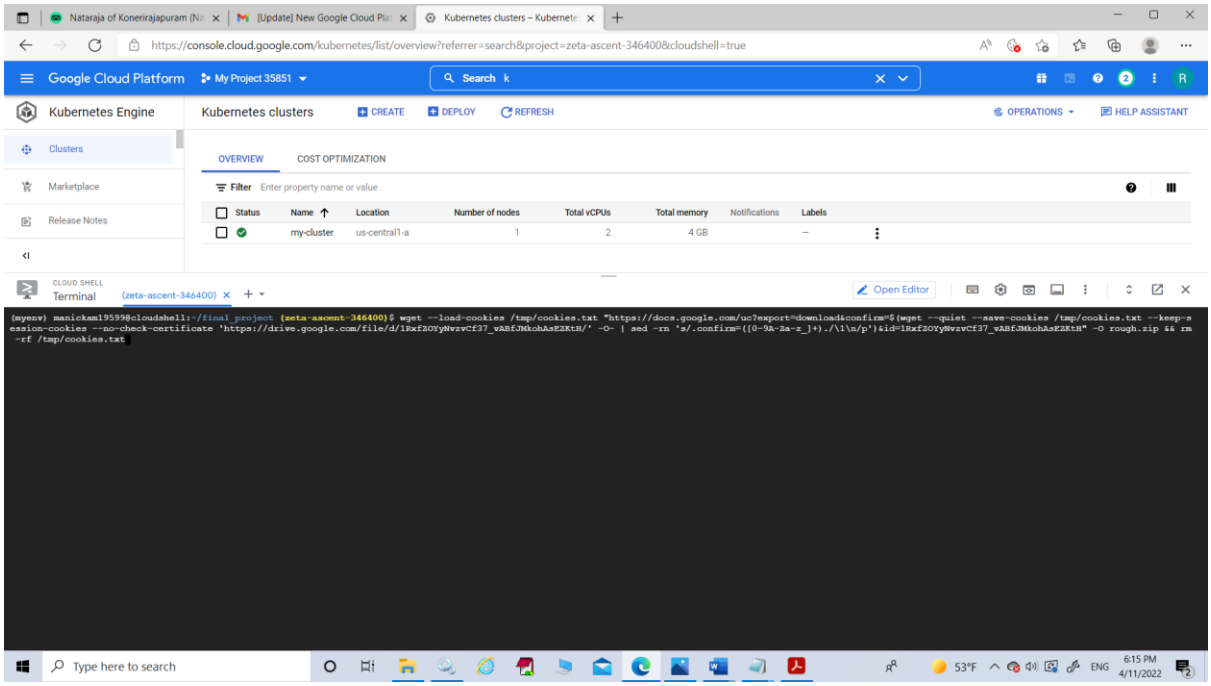


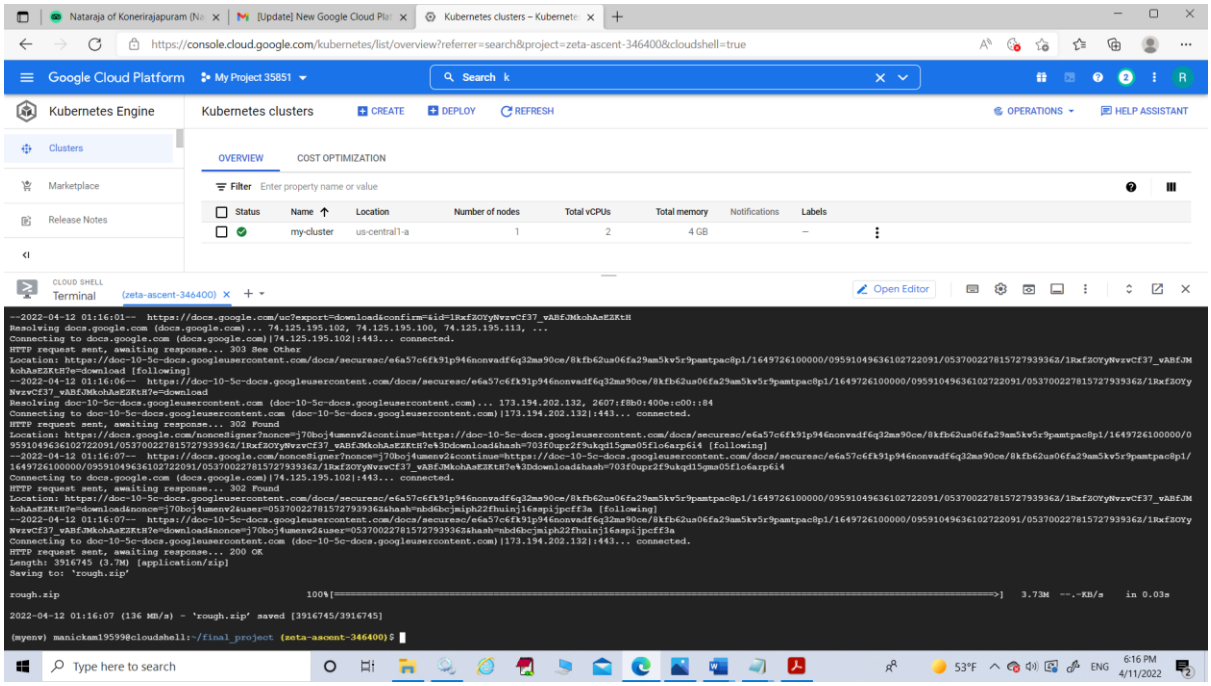

**Download the project from gibhub**

**git clone https://github.com/Quan25/flask-summary.git final_project**

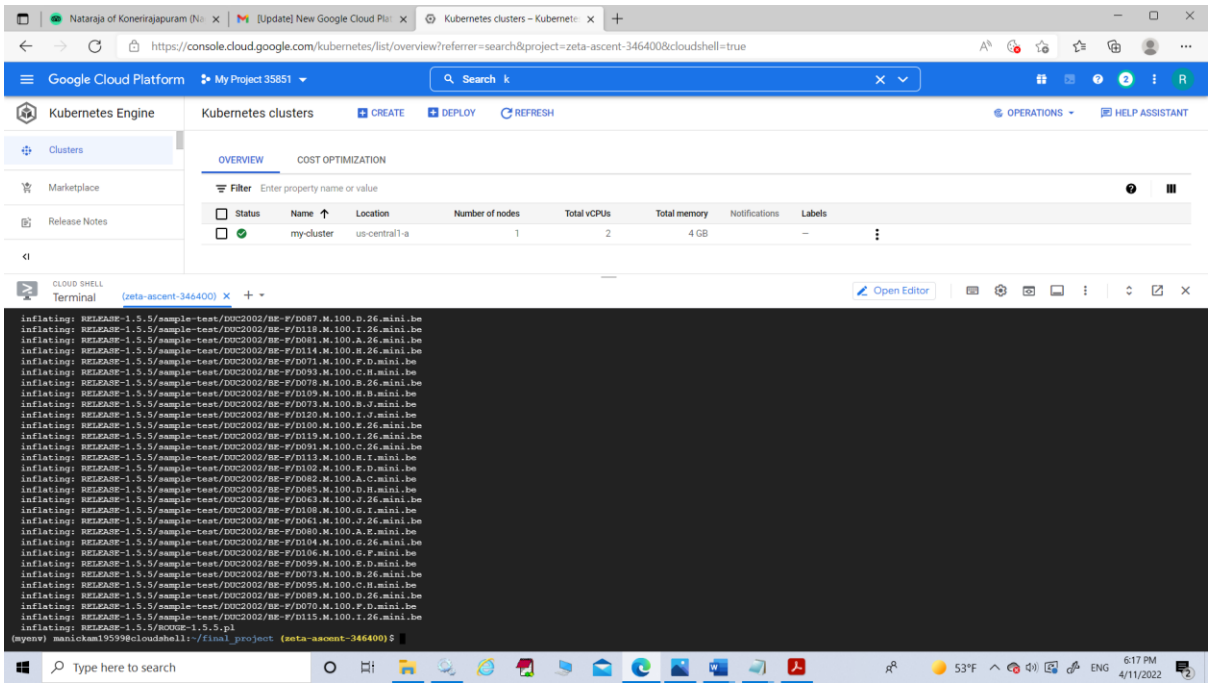


**wget --load-cookies /tmp/cookies.txt "https://docs.google.com/uc?export=download&confirm=$(wget --quiet --save-cookies /tmp/cookies.txt --keep-session-cookies --no-check-certificate 'https://drive.google.com/file/d/1RxfZOYyNvzvCf37_vABfJMkohAsEZKtH/' -O- | sed -rn 's/.confirm=([0-9A-Za-z_]+)./\1\n/p')&id=1RxfZOYyNvzvCf37_vABfJMkohAsEZKtH" -O rough.zip && rm -rf /tmp/cookies.txt**

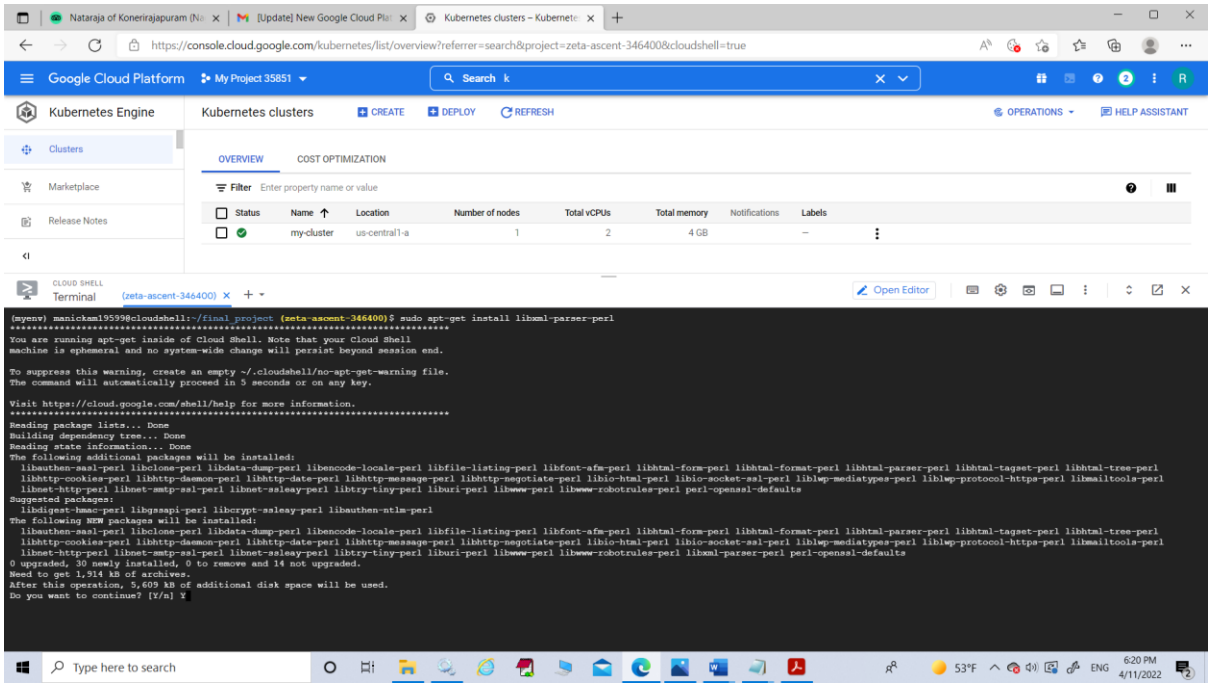


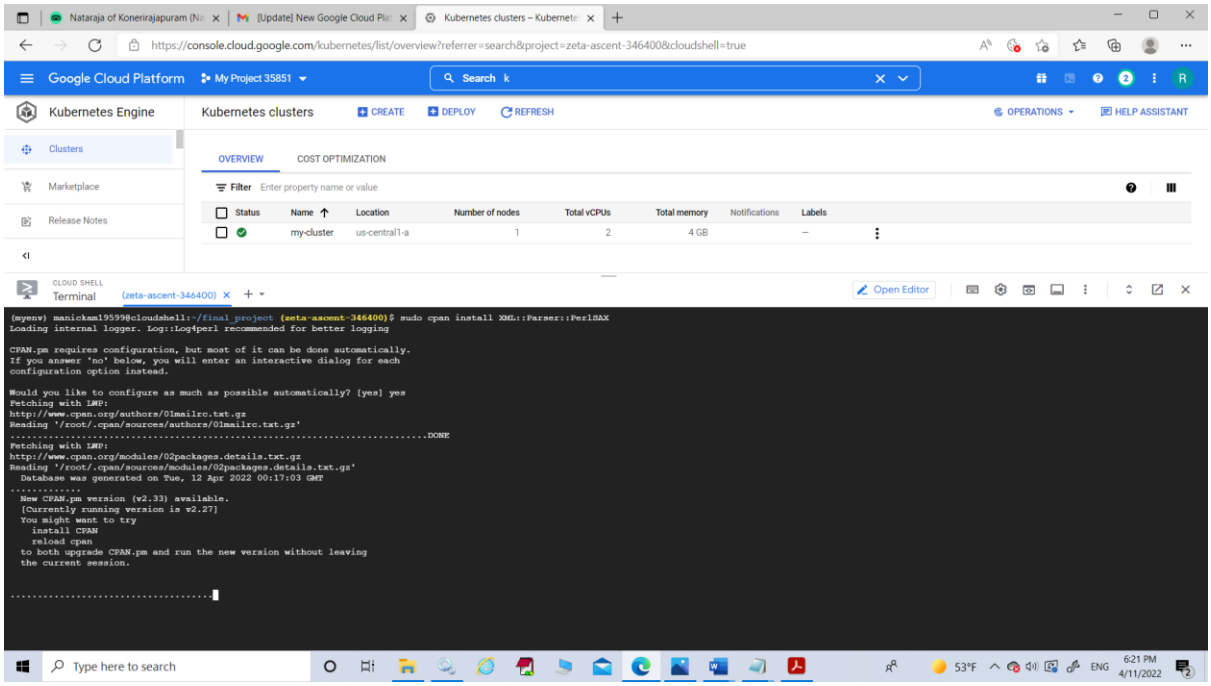
## Unzip rough.zip



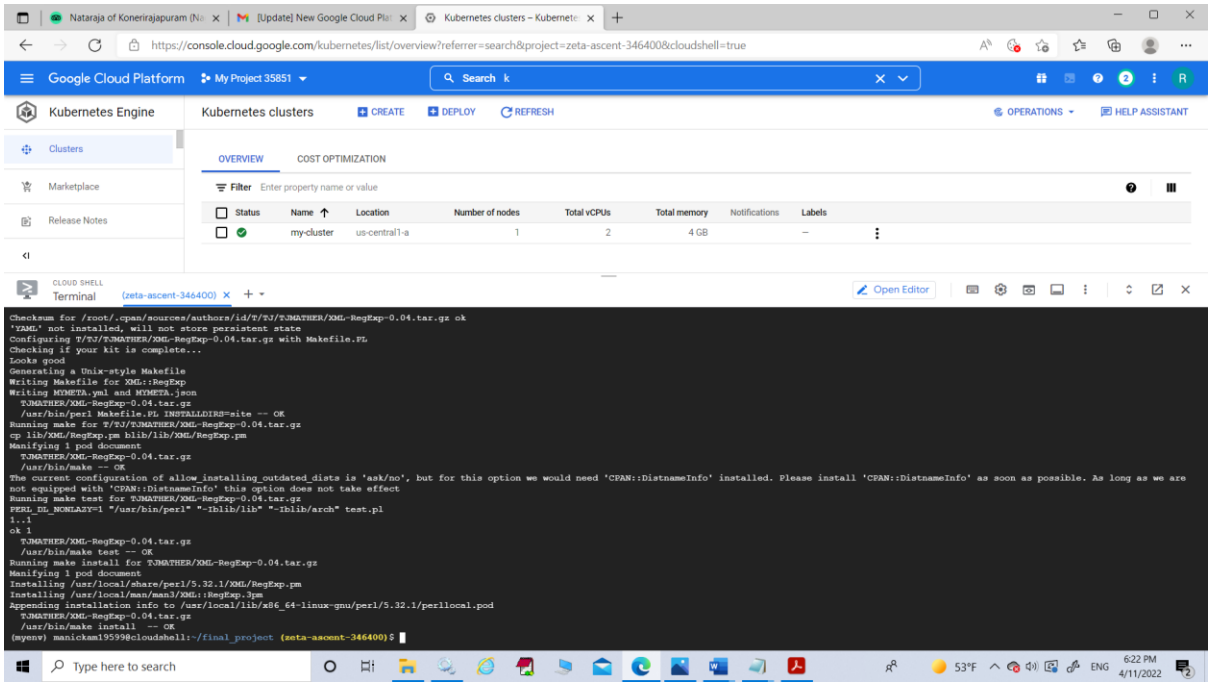

**Install libxml-parser-perl, it is essential for installing ROUGE-1.5.5**
sudo apt-get install libxml-parser-perl



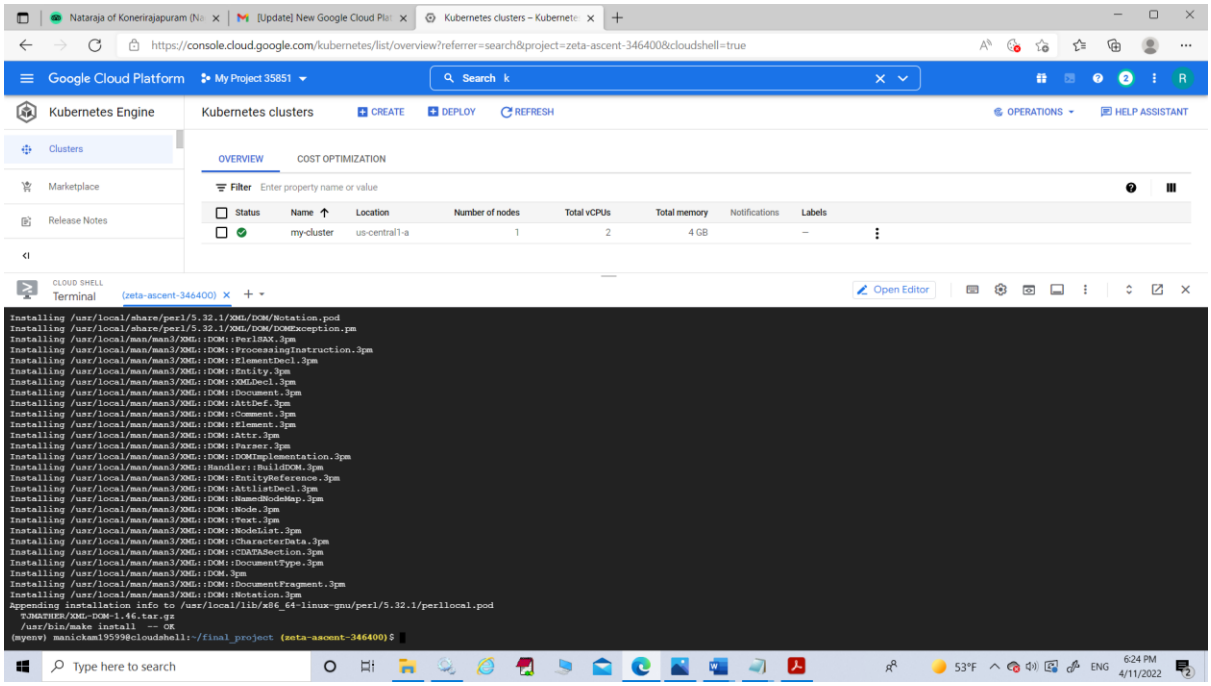

sudo cpan install XML::Parser::PerlSAX




## sudo cpan install XML::RegExp

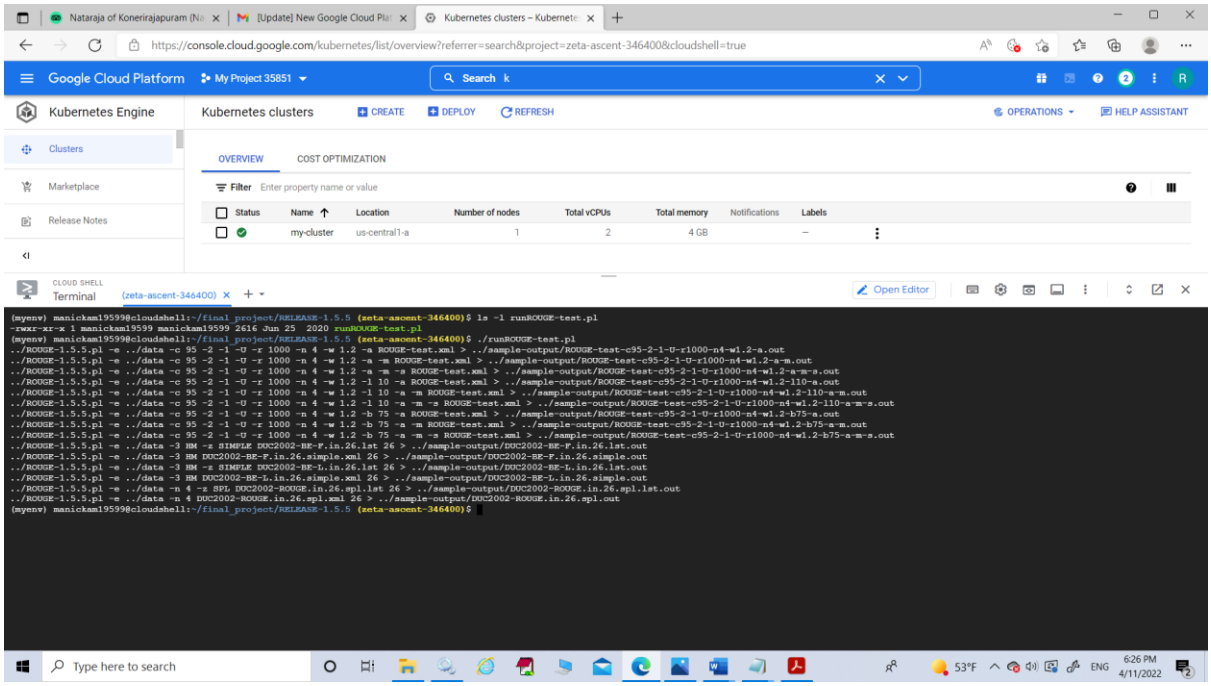



## sudo cpan install XML::DOM


Google Cloud Platform
My Project 35851
Search k
Kubernetes Engine
Kubernetes clusters
CREATE
DEPLOY
REFRESH
OPERATIONS
HELP ASSISTANT
Clusters
Marketplace
Release Notes
OVERVIEW
COST OPTIMIZATION
Filter Enter property name or value
Status
Name
Location
Number of nodes
Total vCPUs
Total memory
Notifications
Labels
my-cluster
us-central1-a
1
2
4 GB
CLOUD SHELL
Terminal
(zeta-ascent-346400)
Open Editor
Installing /usr/local/share/perl/5.32.1/XML/DOM/Notation.pod
Installing /usr/local/share/perl/5.32.1/XML/DOM/DOMException.pm
Installing /usr/local/man/man3/XML::DOM::PerlSAX.3pm
Installing /usr/local/man/man3/XML::DOM::ProcessingInstruction.3pm
Installing /usr/local/man/man3/XML::DOM::ElementDecl.3pm
Installing /usr/local/man/man3/XML::DOM::Entity.3pm
Installing /usr/local/man/man3/XML::DOM::XMLDecl.3pm
Installing /usr/local/man/man3/XML::DOM::Document.3pm
Installing /usr/local/man/man3/XML::DOM::AttDef.3pm
Installing /usr/local/man/man3/XML::DOM::Comment.3pm
Installing /usr/local/man/man3/XML::DOM::Element.3pm
Installing /usr/local/man/man3/XML::DOM::Attr.3pm
Installing /usr/local/man/man3/XML::DOM::Parser.3pm
Installing /usr/local/man/man3/XML::DOM::DOMImplementation.3pm
Installing /usr/local/man/man3/XML::Handler::BuildDOM.3pm
Installing /usr/local/man/man3/XML::DOM::EntityReference.3pm
Installing /usr/local/man/man3/XML::DOM::AttlistDecl.3pm
Installing /usr/local/man/man3/XML::DOM::NamedNodeMap.3pm
Installing /usr/local/man/man3/XML::DOM::Node.3pm
Installing /usr/local/man/man3/XML::DOM::Text.3pm
Installing /usr/local/man/man3/XML::DOM::NodeList.3pm
Installing /usr/local/man/man3/XML::DOM::CharacterData.3pm
Installing /usr/local/man/man3/XML::DOM::CDATASection.3pm
Installing /usr/local/man/man3/XML::DOM::DocumentType.3pm
Installing /usr/local/man/man3/XML::DOM.3pm
Installing /usr/local/man/man3/XML::DOM::DocumentFragment.3pm
Installing /usr/local/man/man3/XML::DOM::Notation.3pm
Appending installation info to /usr/local/lib/x86_64-linux-gnu/perl/5.32.1/perllocal.pod
TJMATHER/XML-DOM-1.46.tar.gz
/usr/bin/make install -- OK
(myenv) manickam195990@cloudshell:~/final_project (zeta-ascent-346400)$
Type here to search
53°F
ENG
6:24 PM
4/11/2022

**Make sure you can run this, which means the ROUGE is successfully installed**

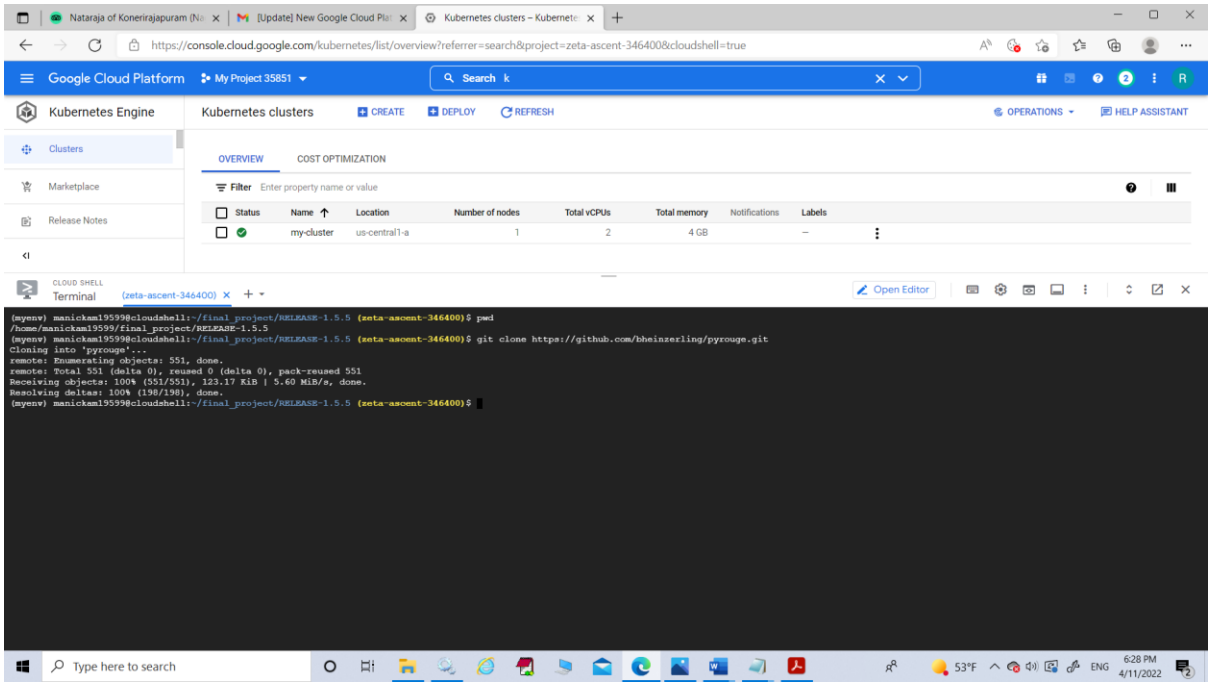
`./runROUGE-test.pl`

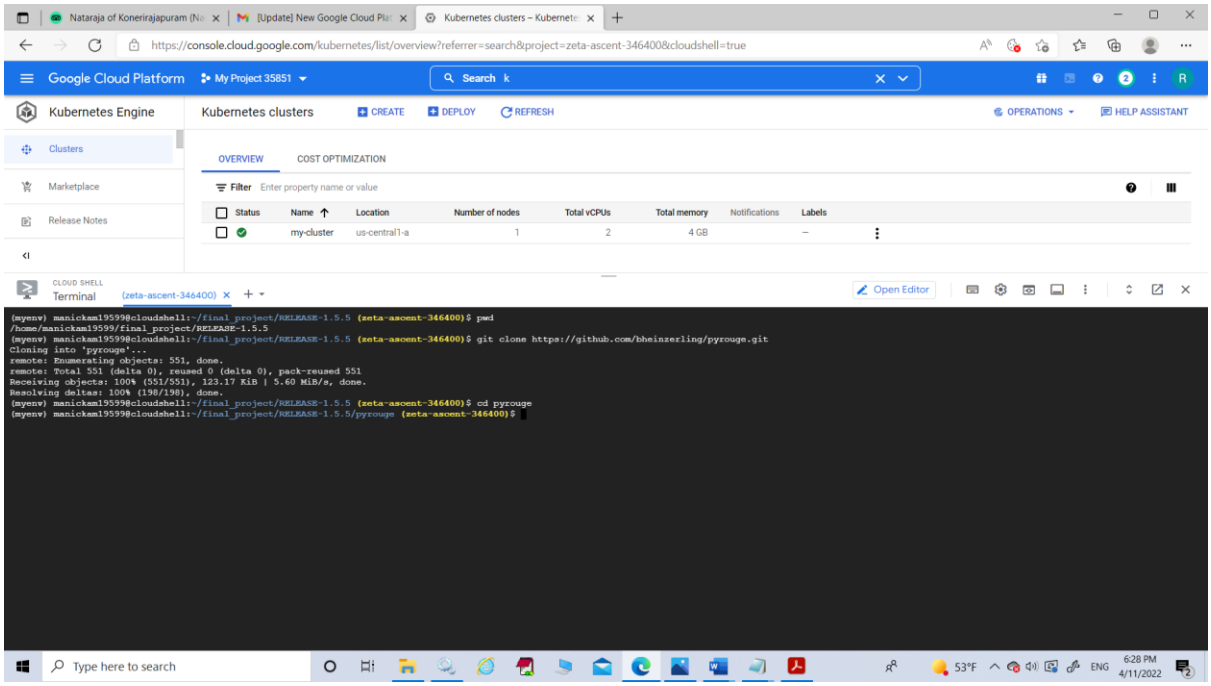



**Install pyrouge**

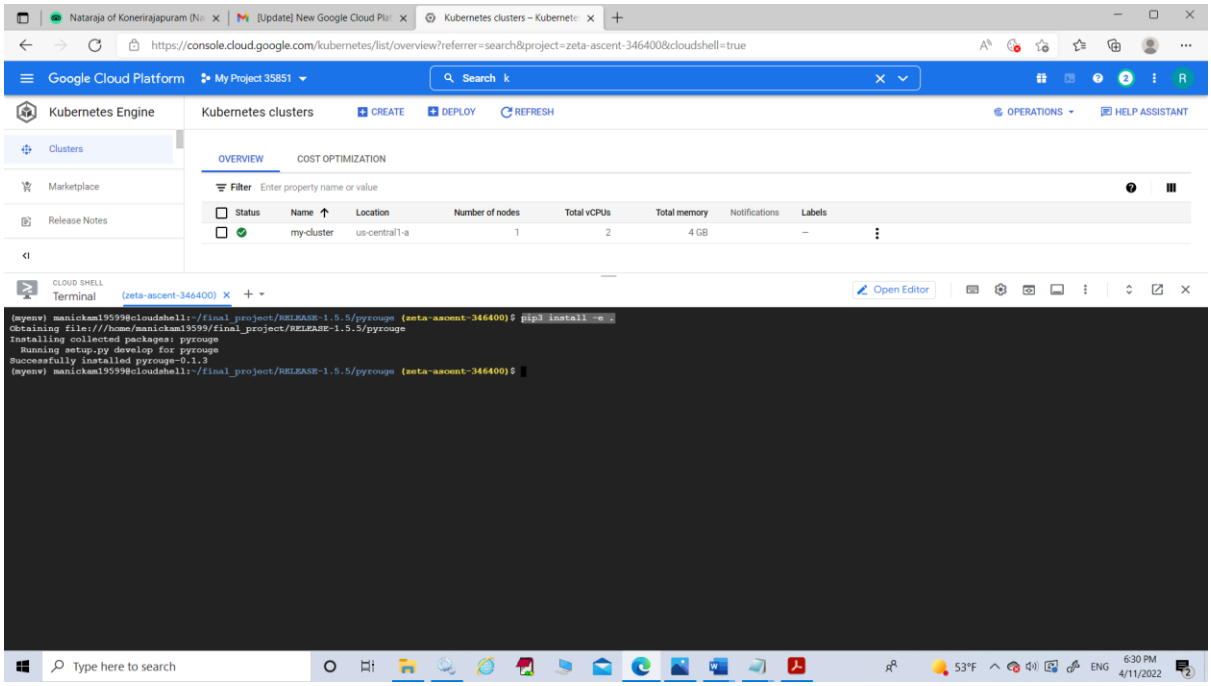
git clone https://github.com/bheinzerling/pyrouge.git

cd pyrouge



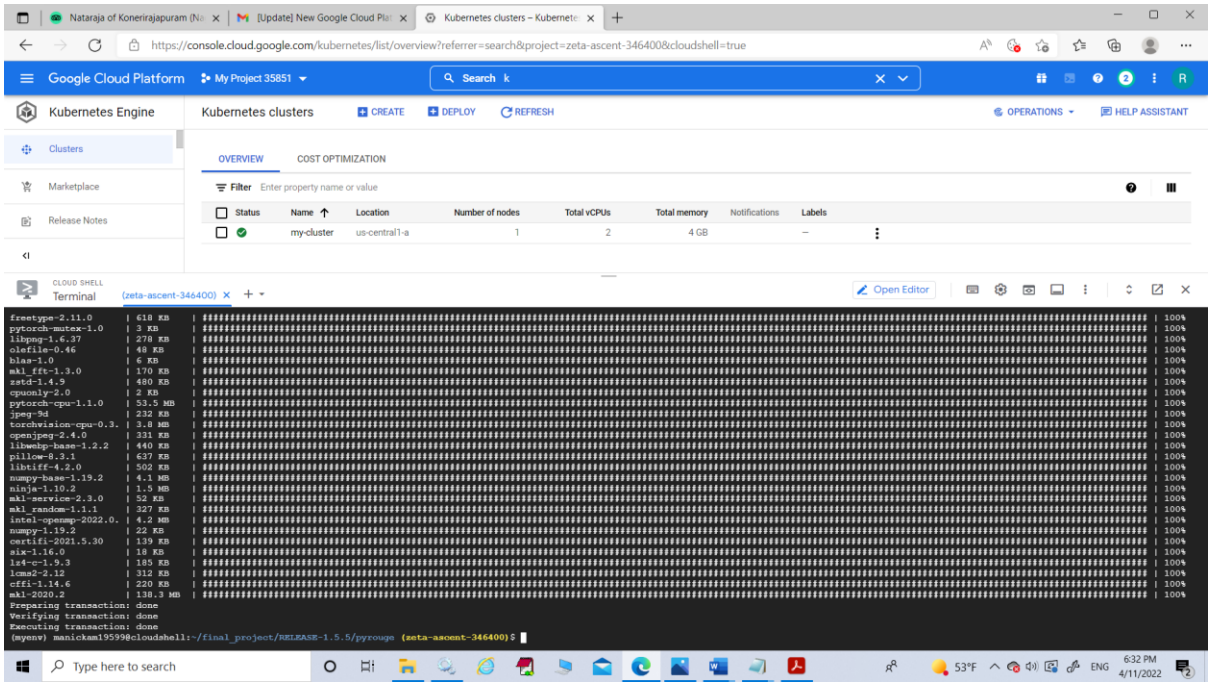



**pip3 install -e .**

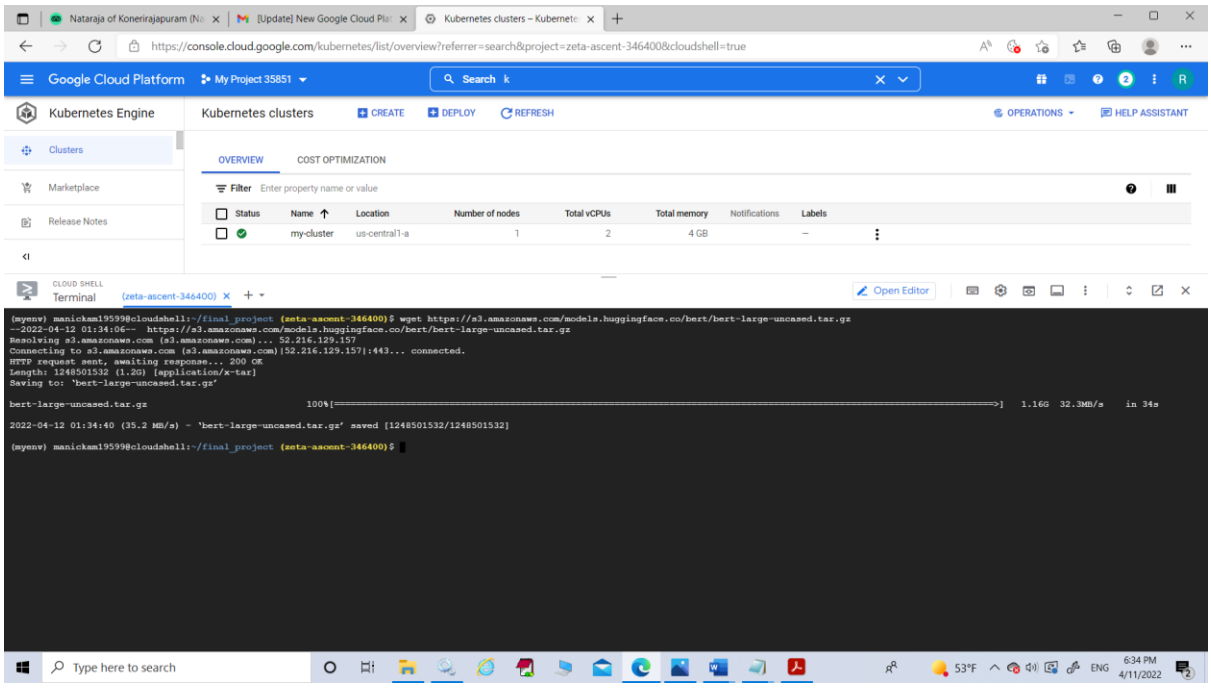



**install pytorch 1.1.0 with this comand**

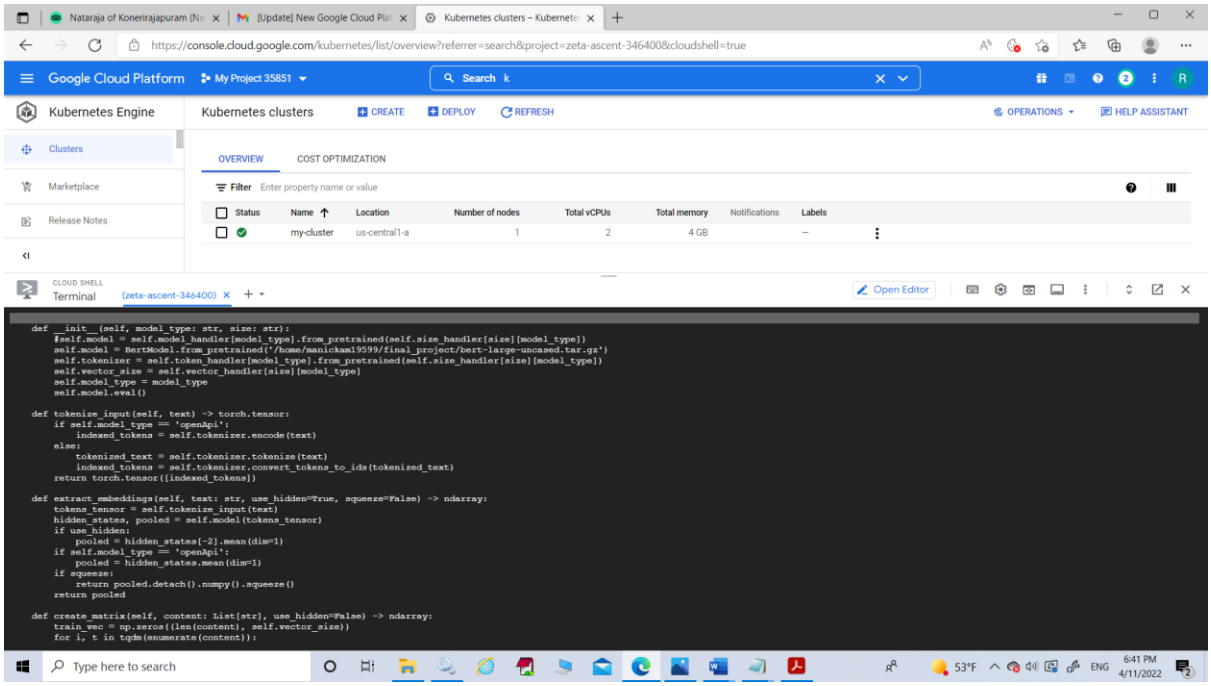
conda install pytorch-cpu==1.1.0 torchvision-cpu==0.3.0 cpuonly -c pytorch




**Go back to your final project folder and download pretrained-bert-model**
wget https://s3.amazonaws.com/models.huggingface.co/bert/bert-large-uncased.tar.gz




**Change the path in BertParent.py in summarizer folder**
self.model = BertModel.from_pretrained('YOUR_PROJECT_Directory/bert-large-uncased.tar.gz')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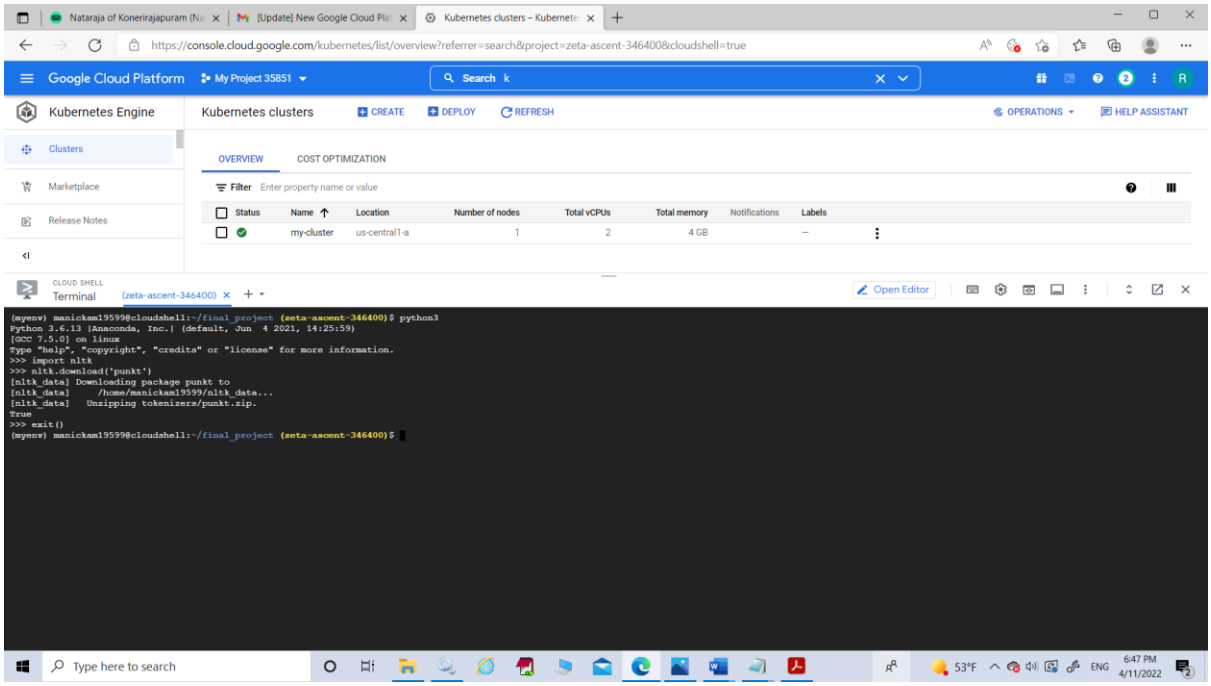
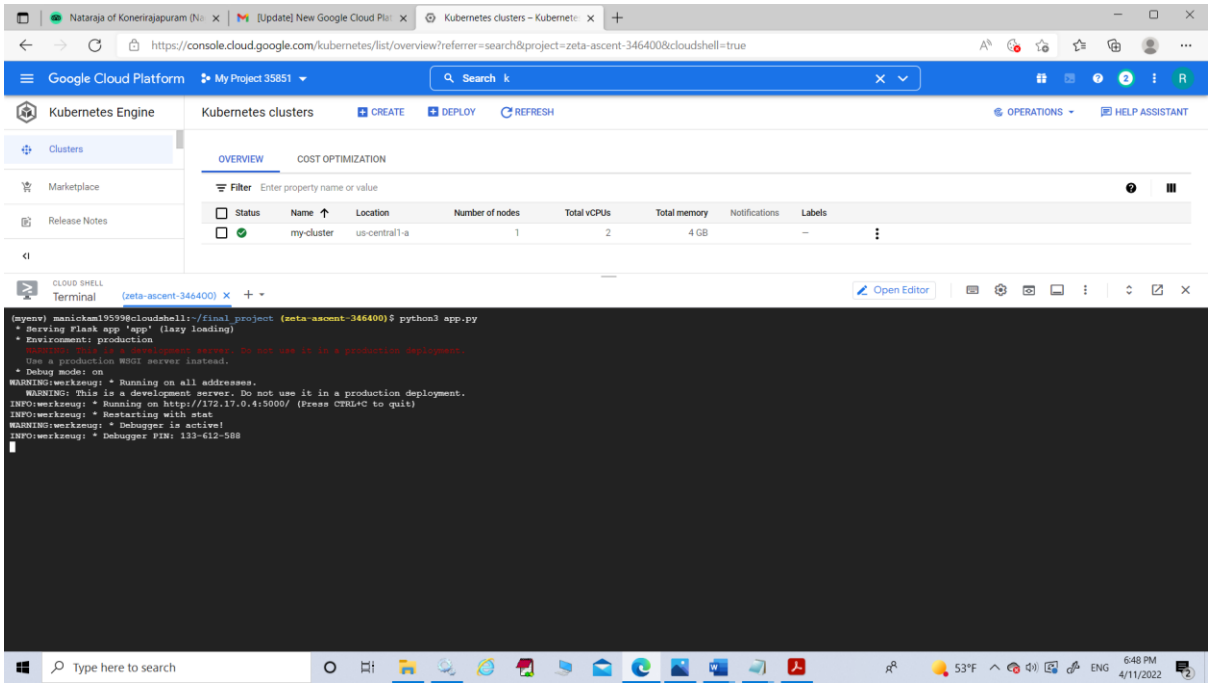
[Update] New Google Cloud Plat
Kubernetes clusters – Kubernete
https://console.cloud.google.com/kubernetes/list/overview?referrer=search&project=zeta-ascent-346400&cloudshell=true
Google Cloud Platform
My Project 35851
Search k
Kubernetes Engine
Kubernetes clusters
CREATE
DEPLOY
REFRESH
OPERATIONS
HELP ASSISTANT
Clusters
Marketplace
Release Notes
OVERVIEW
COST OPTIMIZATION
Filter Enter property name or value
Status
Name
Location
Number of nodes
Total vCPUs
Total memory
Notifications
Labels
my-cluster
us-central1-a
1
2
4 GB
–
CLOUD SHELL
Terminal
(zeta-ascent-346400)
Open Editor
def __init__(self, model_type: str, size: str):
#self.model = self.model_handler[model_type].from_pretrained(self.size_handler[size][model_type])
self.model = BertModel.from_pretrained('/home/manickam19599/final_project/bert-large-uncased.tar.gz')
self.tokenizer = self.token_handler[model_type].from_pretrained(self.size_handler[size][model_type])
self.vector_size = self.vector_handler[size][model_type]
self.model_type = model_type
self.model.eval()
def tokenize_input(self, text) -> torch.tensor:
if self.model_type == 'openAi':
indexed_tokens = self.tokenizer.encode(text)
else:
tokenized_text = self.tokenizer.tokenize(text)
indexed_tokens = self.tokenizer.convert_tokens_to_ids(tokenized_text)
return torch.tensor([indexed_tokens])
def extract_embeddings(self, text: str, use_hidden=True, squeeze=False) -> ndarray:
tokens_tensor = self.tokenize_input(text)
hidden_states, pooled = self.model(tokens_tensor)
if use_hidden:
pooled = hidden_states[-2].mean(dim=1)
if self.model_type == 'openAi':
pooled = hidden_states.mean(dim=1)
if squeeze:
return pooled.detach().numpy().squeeze()
return pooled
def create_matrix(self, content: List[str], use_hidden=False) -> ndarray:
train_vec = np.zeros((len(content), self.vector_size))
for i, t in tqdm(enumerate(content)):
Type here to search
53°F
ENG
6:41 PM
4/11/2022

**Install all the following package**

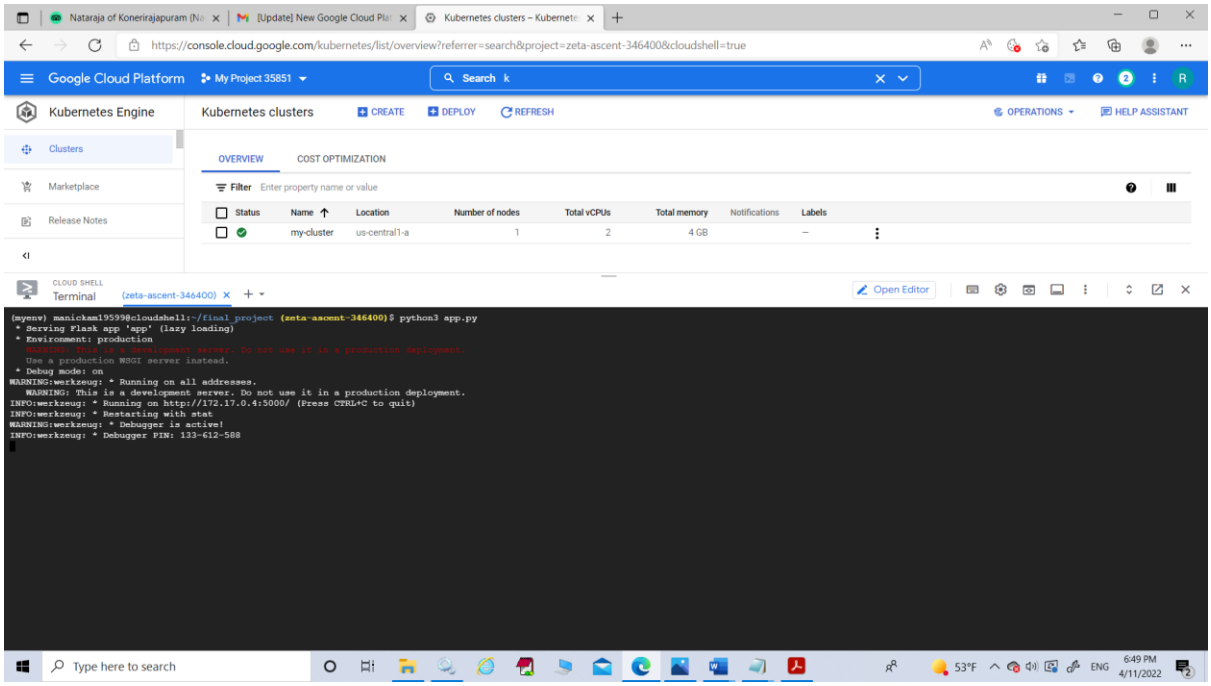
pip3 install flask
pip3 install pandas
pip3 install sklearn
pip3 install nltk
pip3 install gensim==3.8.3
pip3 install pytorch-pretrained-bert
pip3 install matplotlib==3.0.0

## Download punkt

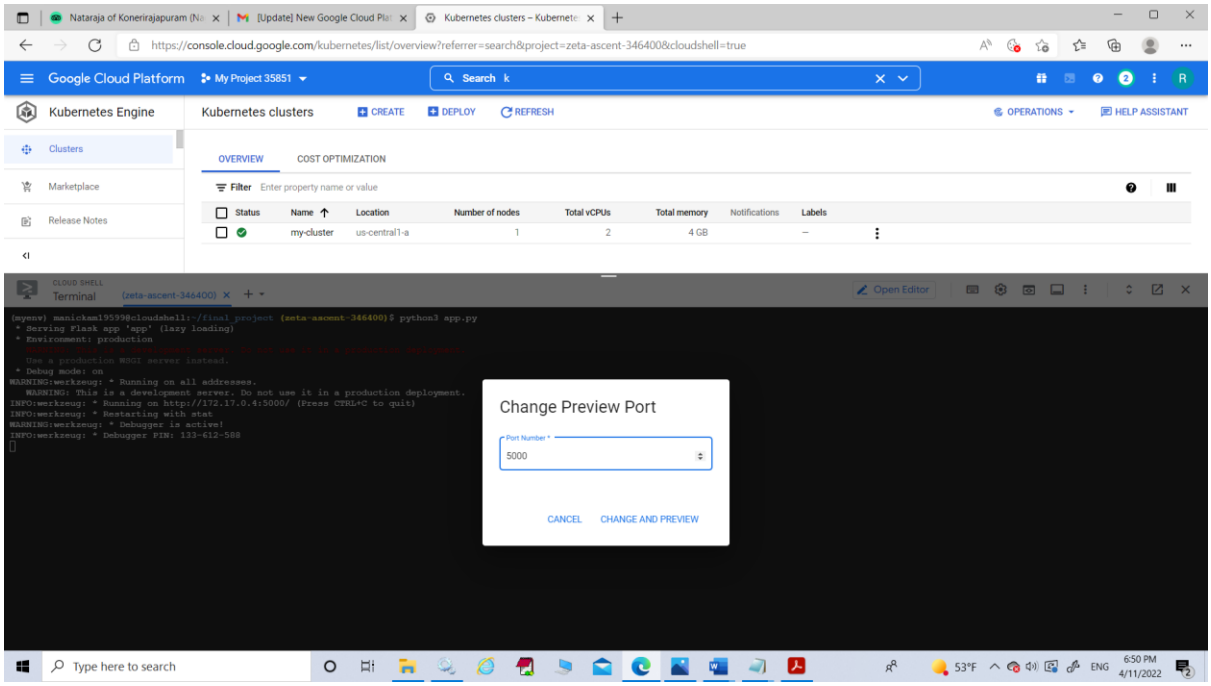


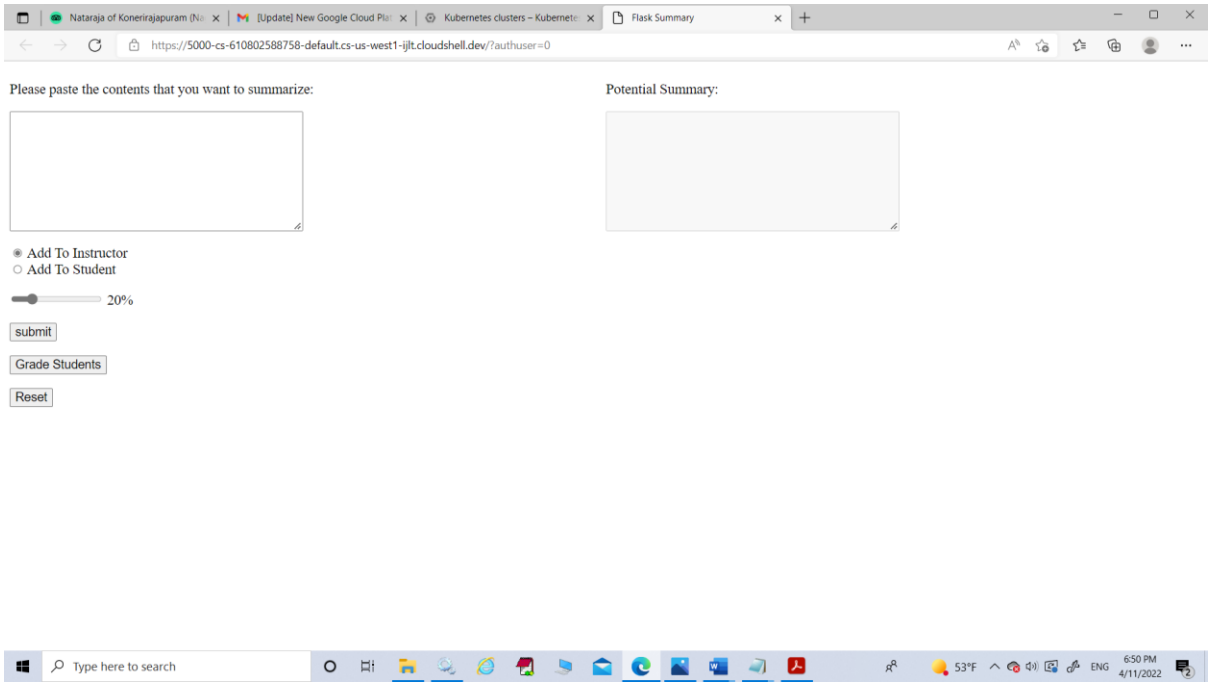
## To Test the text summary Run : app.py

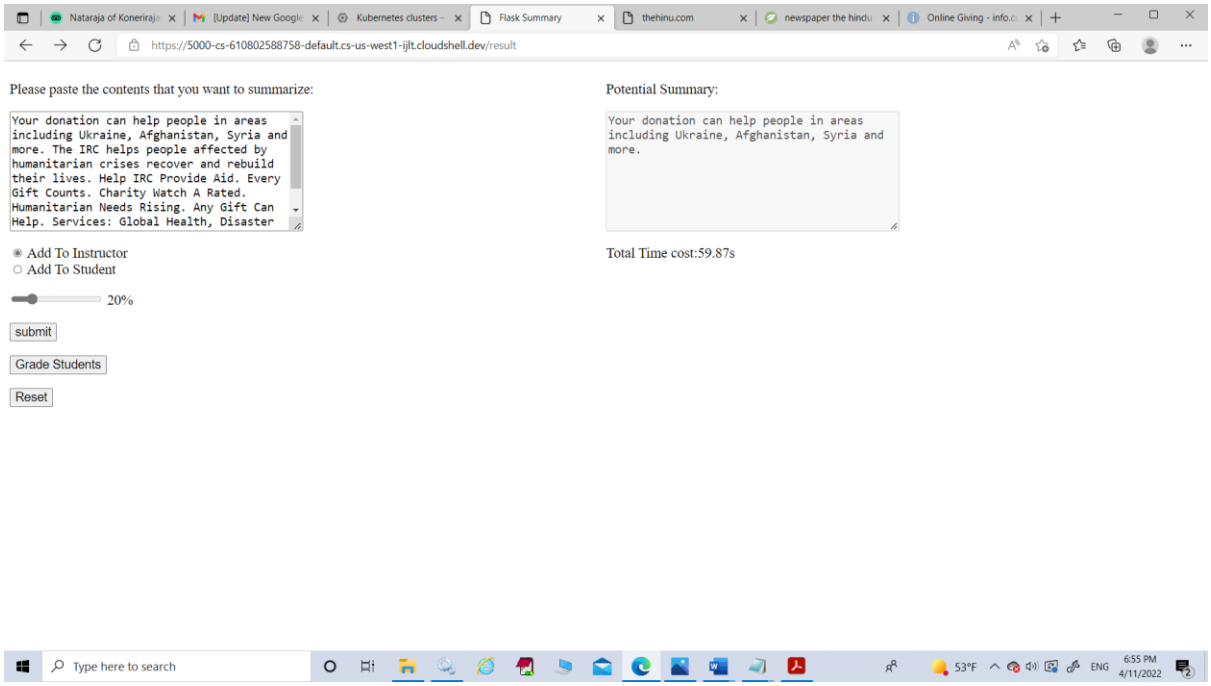



## Use Web Preview and change the port number to 5000



## Copy the text summary you wish to test as given following next page




Nataraja of Koneriraja
[Update] New Google
Kubernetes clusters -
Flask Summary
thehinu.com
newspaper the hindu
Online Giving - info.c
https://5000-cs-610802588758-default.cs-us-west1-ijlt.cloudshell.dev/result
Please paste the contents that you want to summarize:
Your donation can help people in areas including Ukraine, Afghanistan, Syria and more. The IRC helps people affected by humanitarian crises recover and rebuild their lives. Help IRC Provide Aid. Every Gift Counts. Charity Watch A Rated. Humanitarian Needs Rising. Any Gift Can Help. Services: Global Health, Disaster
Add To Instructor
Add To Student
20%
submit
Grade Students
Reset
Potential Summary:
Your donation can help people in areas including Ukraine, Afghanistan, Syria and more.
Total Time cost:59.87s
Type here to search
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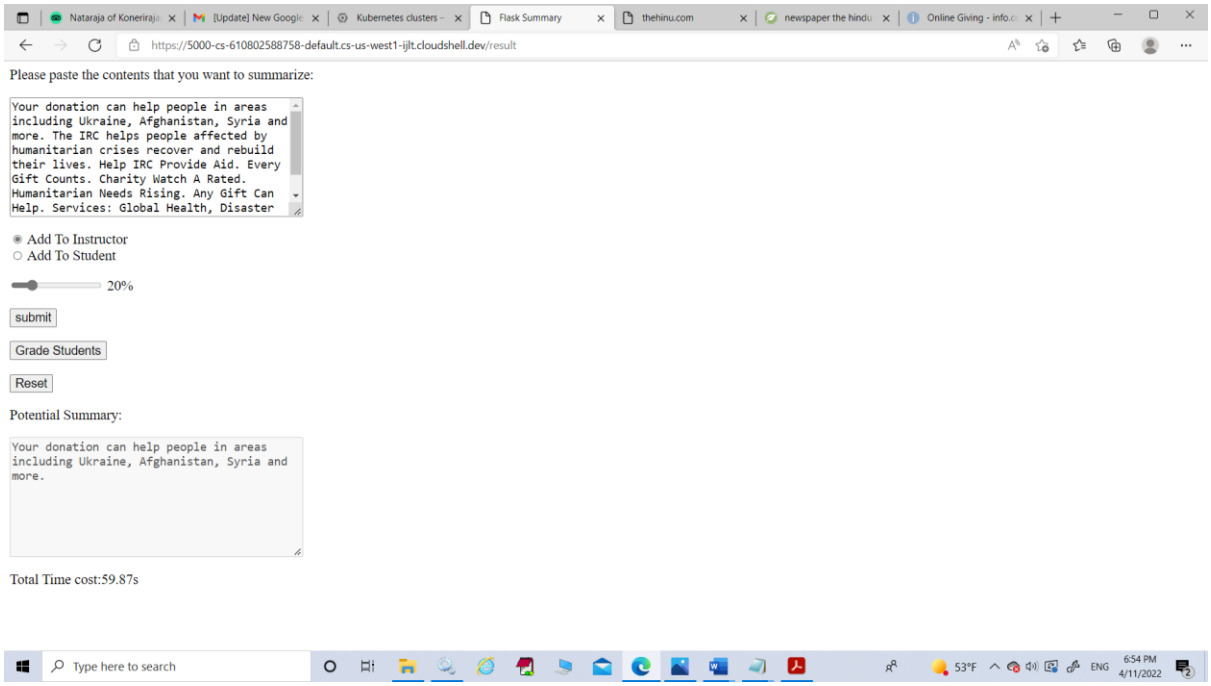
4/11/2022


Nataraja of Koneriraja
[Update] New Google
Kubernetes clusters -
Flask Summary
thehinu.com
newspaper the hindu
Online Giving - info.c
https://5000-cs-610802588758-default.cs-us-west1-ijlt.cloudshell.dev/result
Please paste the contents that you want to summarize:
Your donation can help people in areas including Ukraine, Afghanistan, Syria and more. The IRC helps people affected by humanitarian crises recover and rebuild their lives. Help IRC Provide Aid. Every Gift Counts. Charity Watch A Rated. Humanitarian Needs Rising. Any Gift Can Help. Services: Global Health, Disaster
Add To Instructor
Add To Student
20%
submit
Grade Students
Reset
Potential Summary:
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Total Time cost:59.87s
Type here to search
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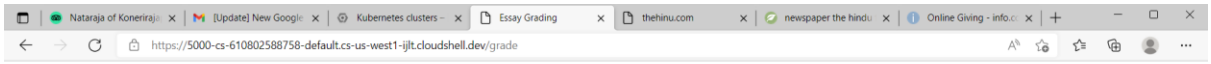
4/11/2022




## Instructor Essay Summary

- Instructor:

  Essay Summary: Your donation can help people in areas including Ukraine, Afghanistan, Syria and more.

## Student Grade Rank (From High to Low)

### Student Score Percentile

| Name | Student 5 | Student 3 | Student 1 | Student 2 | Student 4 |
|---|---|---|---|---|---|
| **student percentile** | 1.0 | 0.8 | 0.6 | 0.4 | 0.2 |

- Student Name: Student 5

  Essay Summary: Your donation can help people in areas including Ukraine, Afghanistan, Syria and more.

- Student Name: Student 3

  Essay Summary: the cdc recommend that all people wear cloth face masks in public places where it is difficult to maintain a 6-foot (2-meter) distance from others. this will help slow the spread of the virus from asymptomatic people and people who do not know that they have contracted it.

- Student Name: Student 1

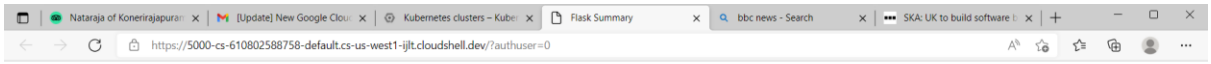
  Essay Summary: the contagious respiratory illness continues to spread worldwide. health and government officials have asked every one of us to help slow the spread in our communities

- Student Name: Student 2

  Essay Summary: the first us deaths related to coronavirus might have occurred weeks earlier than previously thought

- Student Name: Student 4

  Essay Summary: the entire speech requires about 10 minutes to read. there are two sections i wish to draw to your attention. the first principle is that you must not fool yourself




Please paste the contents that you want to summarize:

```
A group of UK institutions is going to
build a prototype "brain" to control the
world's biggest radio telescope.

The Square Kilometre Array (SKA) will
initially comprise 197 dishes and 130,000
antennas spread across South Africa and
Australia.
```

Potential Summary:

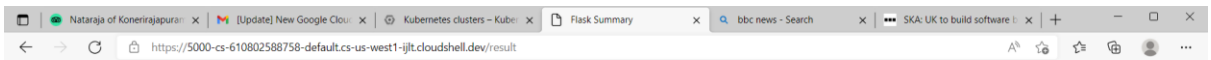
- (•) Add To Instructor
- ( ) Add To Student

20%

submit

Grade Students

Reset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```

- (•) Add To Instructor
- ( ) Add To Student

20%

submit

Grade Students

Reset

Potential Summary:

```
A group of UK institutions is going to
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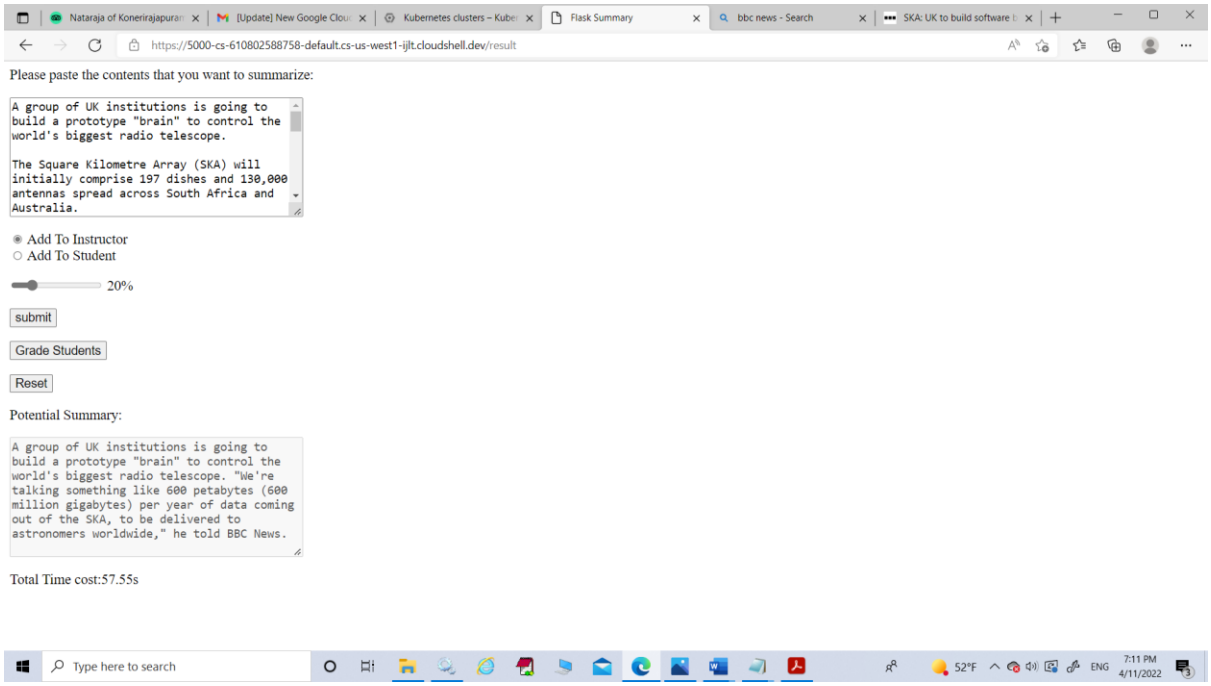
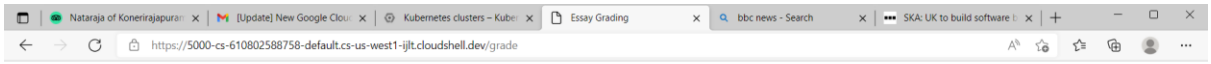
world's biggest radio telescope. "We're
talking something like 600 petabytes (600
million gigabytes) per year of data coming
out of the SKA, to be delivered to
astronomers worldwide," he told BBC News.
```

Total Time cost:57.55s

# Add To Instructor



# Add to Student




## Instructor Essay Summary

- Instructor:

  Essay Summary: A group of UK institutions is going to build a prototype "brain" to control the world's biggest radio telescope. "We're talking something like 600 petabytes (600 million gigabytes) per year of data coming out of the SKA, to be delivered to astronomers worldwide," he told BBC News.

## Student Grade Rank (From High to Low)

### Student Score Percentile

**Name** Student 1
**student percentile** 1.0

- Student Name: Student 1

  Essay Summary: A group of UK institutions is going to build a prototype "brain" to control the world's biggest radio telescope. "We're talking something like 600 petabytes (600 million gigabytes) per year of data coming out of the SKA, to be delivered to astronomers worldwide," he told BBC News.