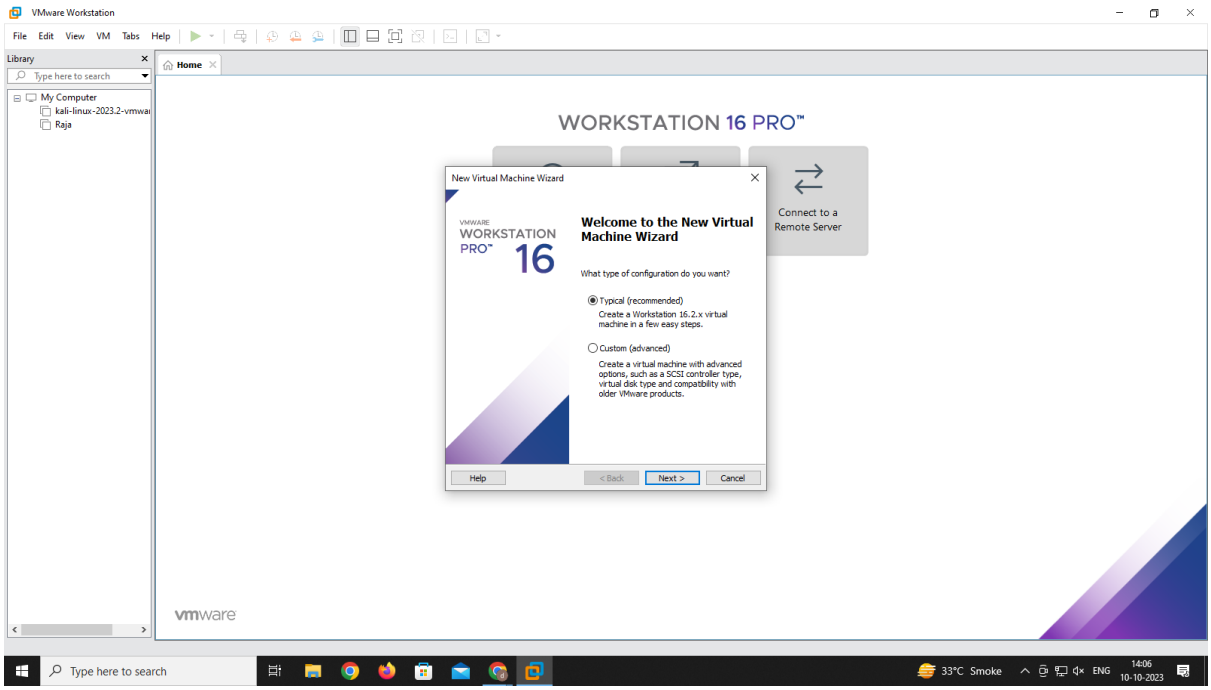
PRACTICAL 4

Aim:- Implementing Iaas with Eucalyptus

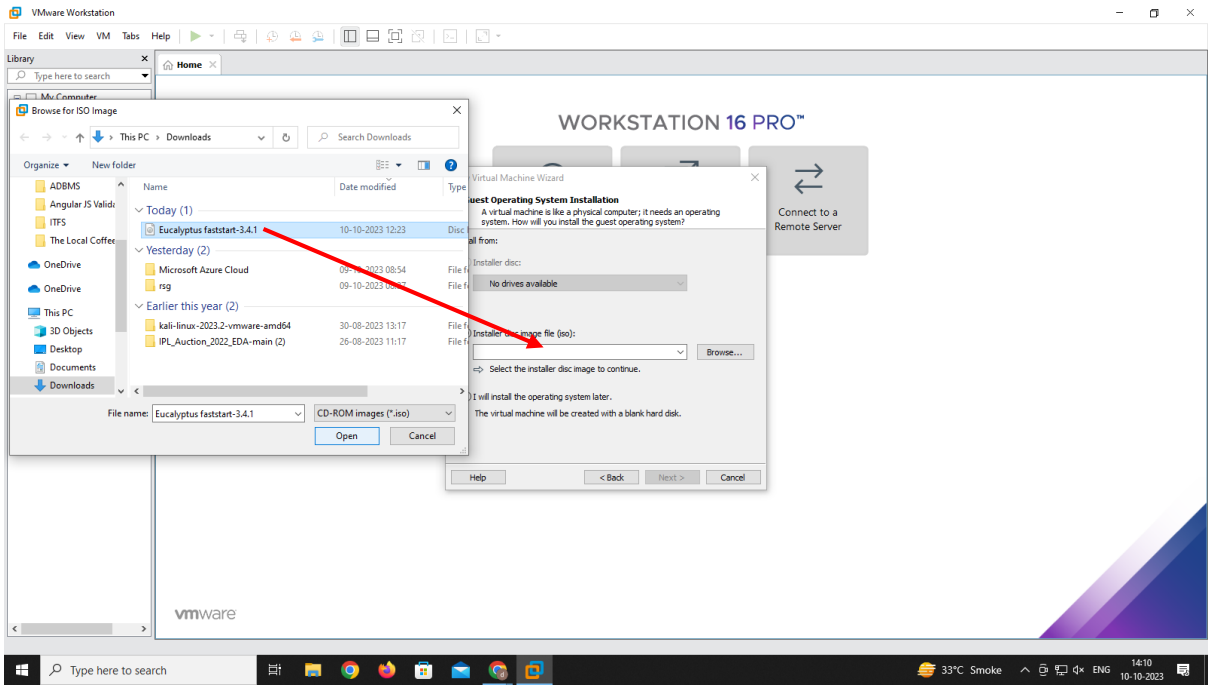
Working on:- VMware Workstation

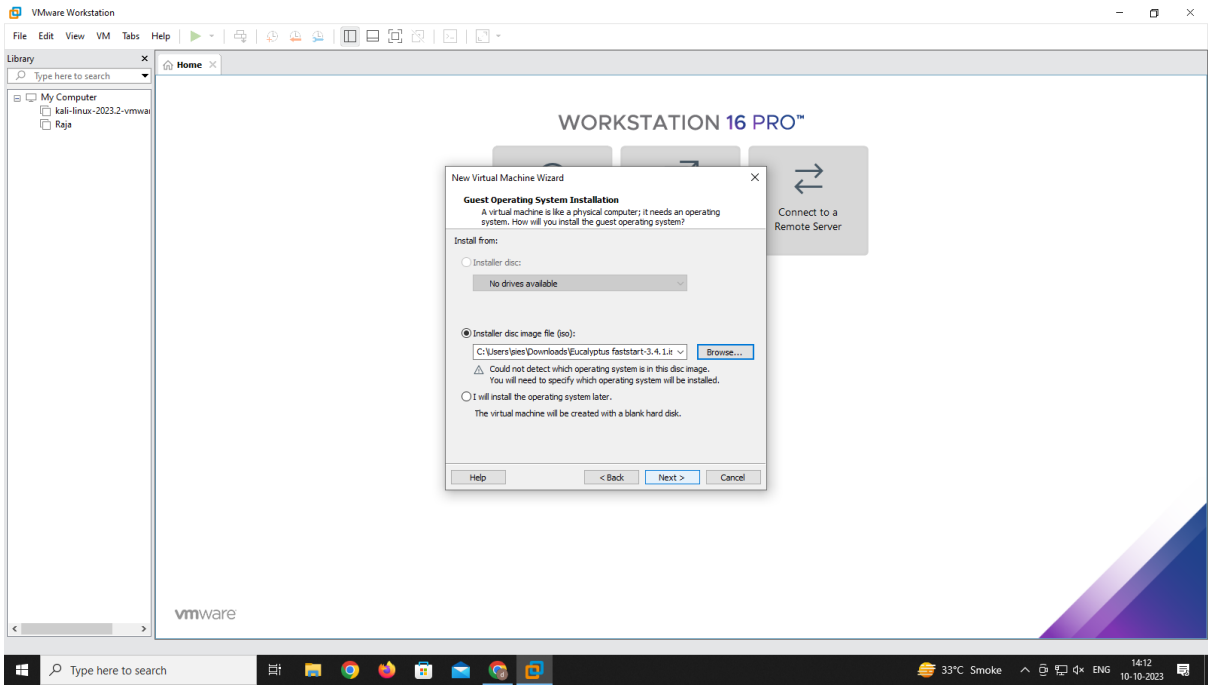
File used:- Eclayputus faststart 3.4.1.iso file

Open vmware workstation click on next

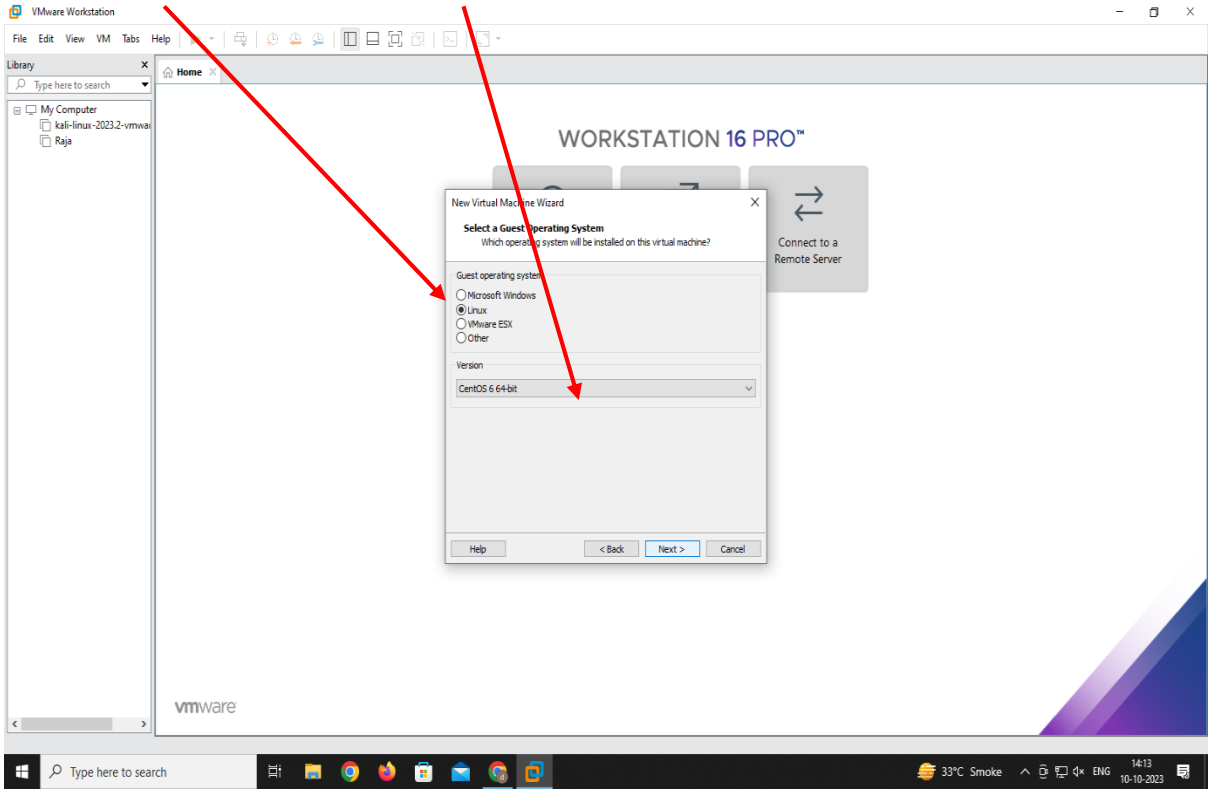


Click on **Browse** and uplod the Eucalyptusfaststsrt-3.4.1

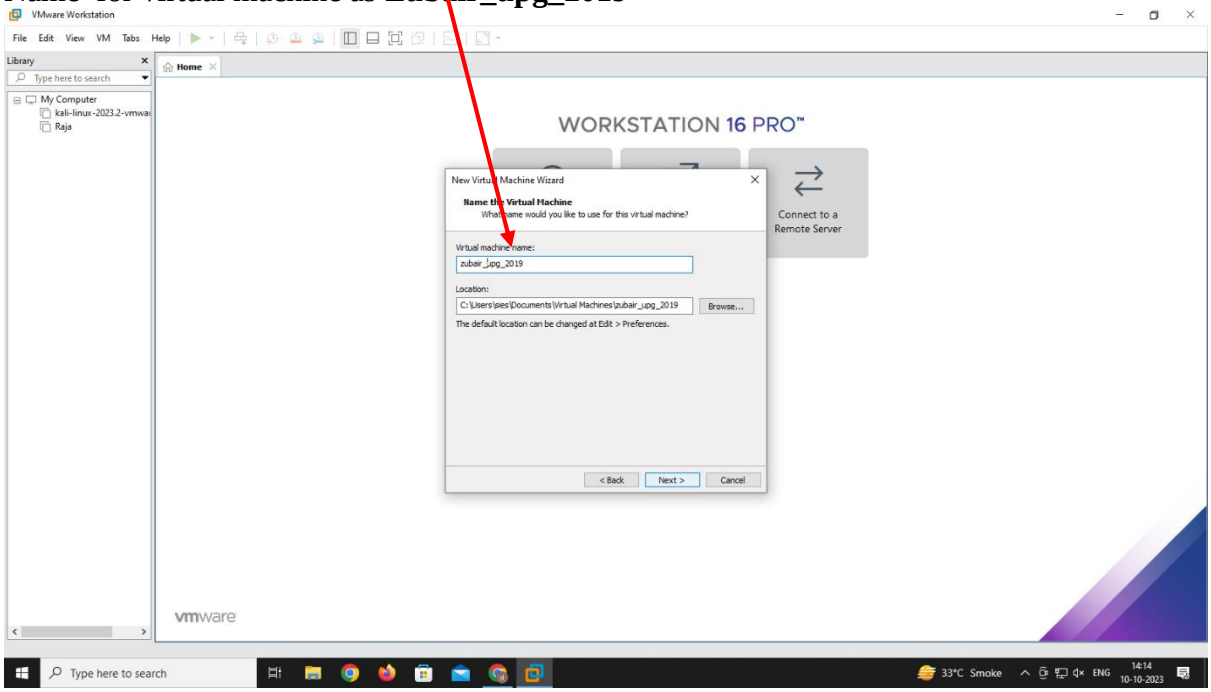




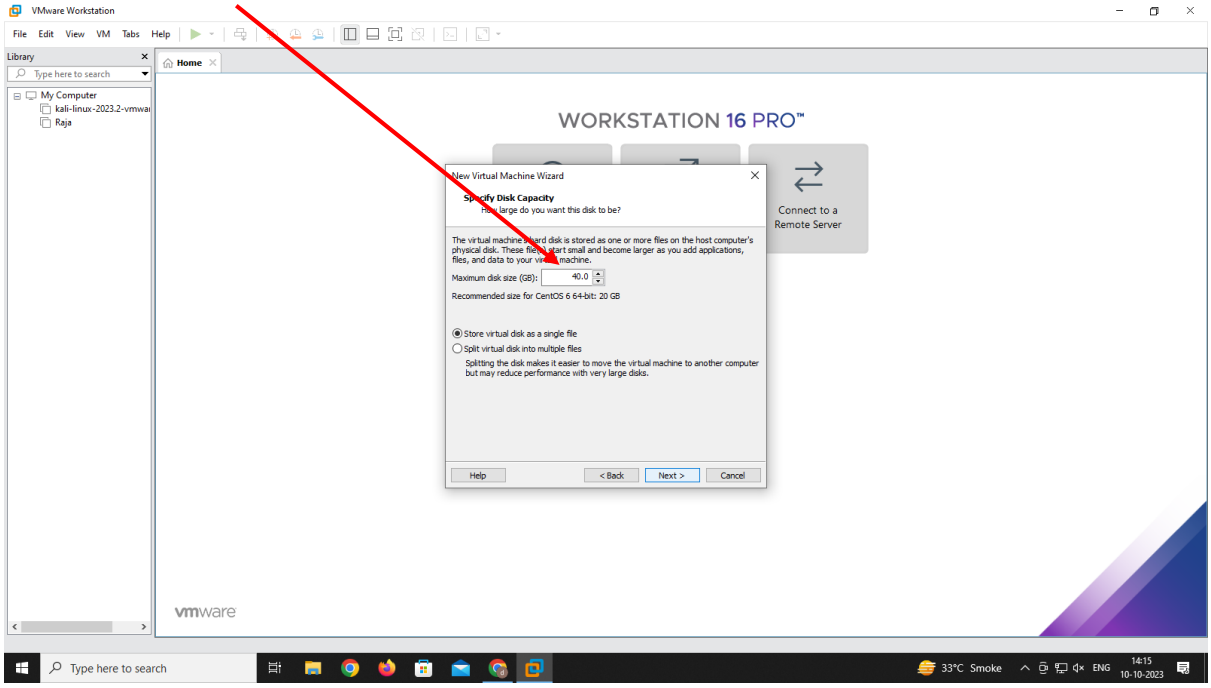
Click on **linux** and version is **centOS 6 64-bit**



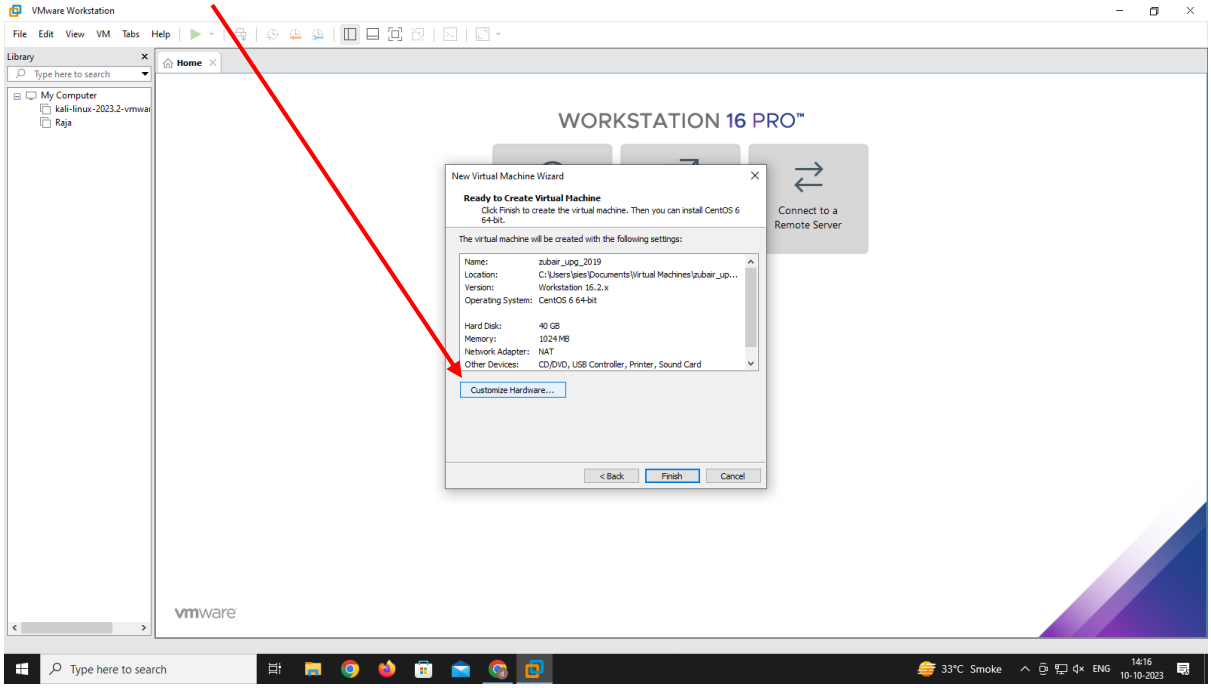
Name for virtual machine as **Zubair_upg_2019**



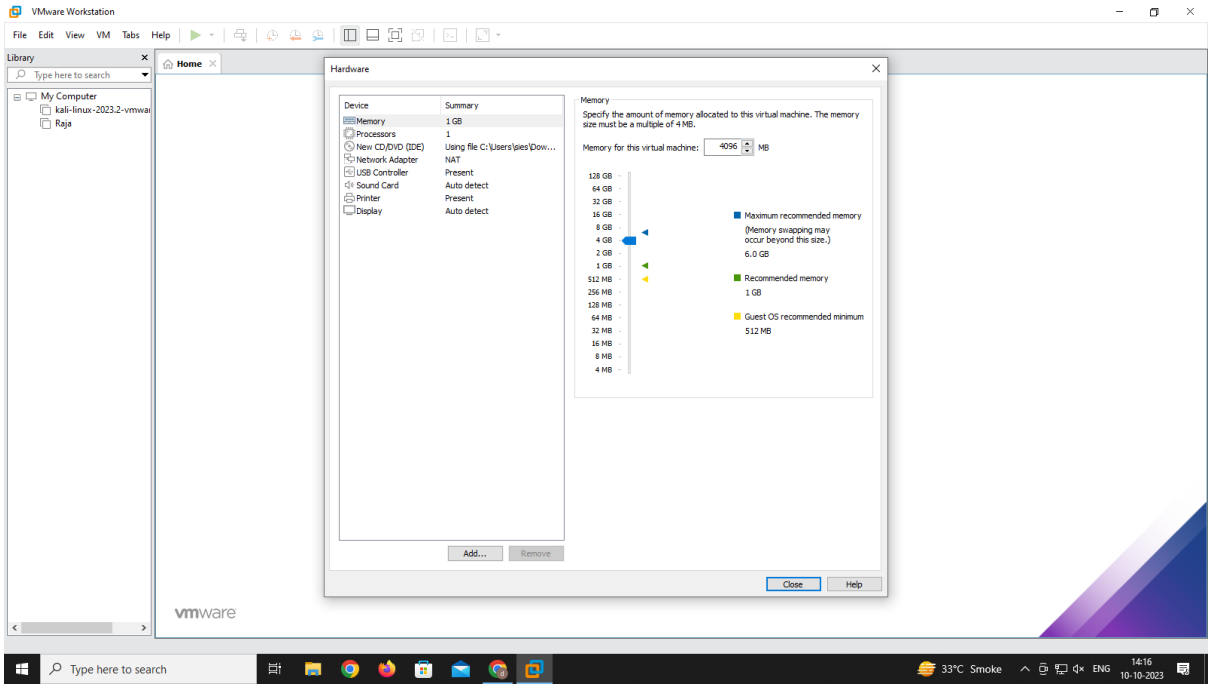
Mannual disk :**40.0**



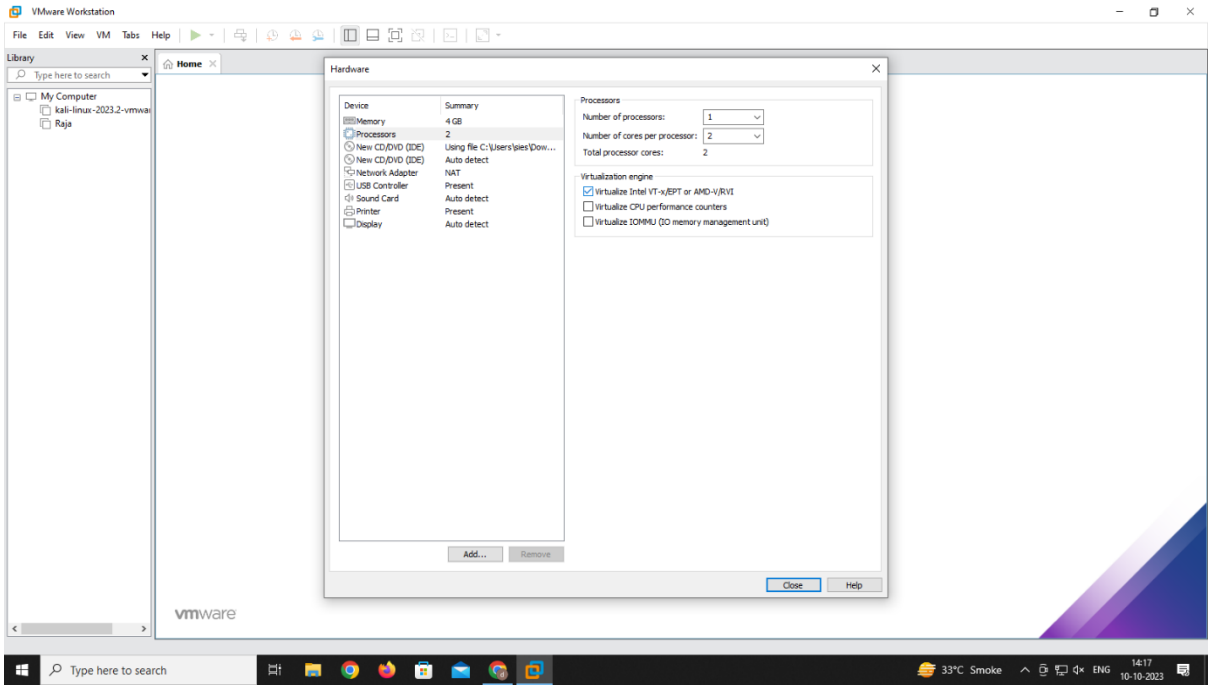
Click on **custom Hardware**

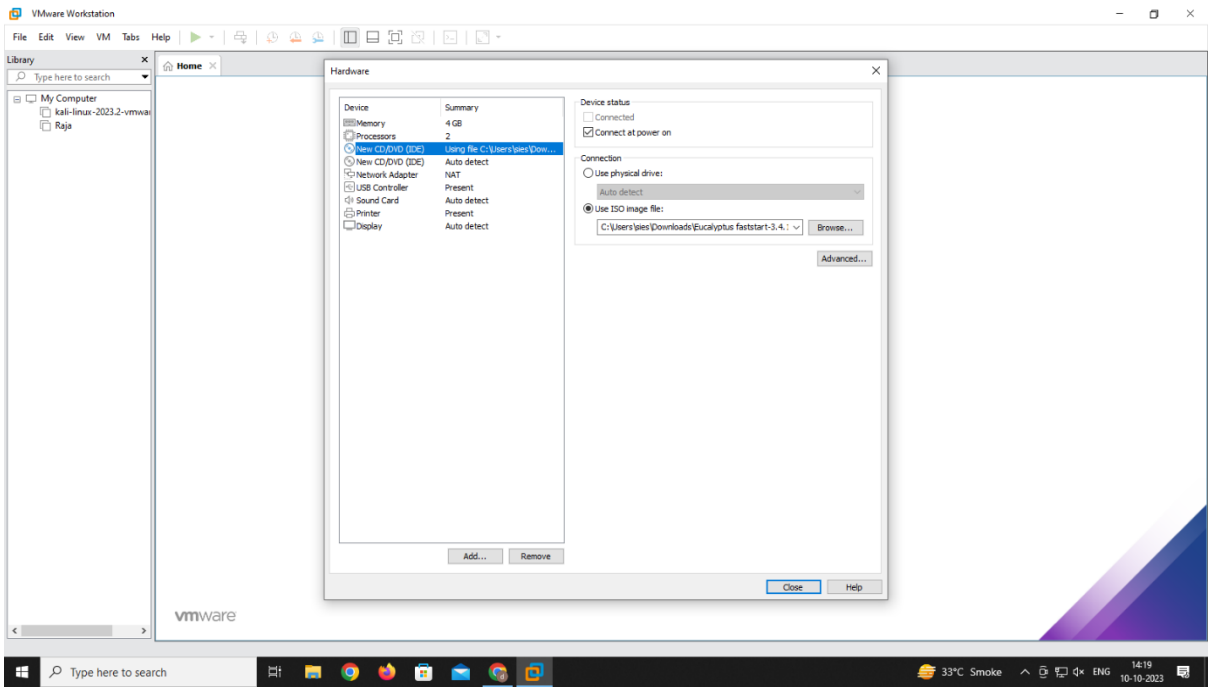


Give the memory storage as 4GB and then click on next

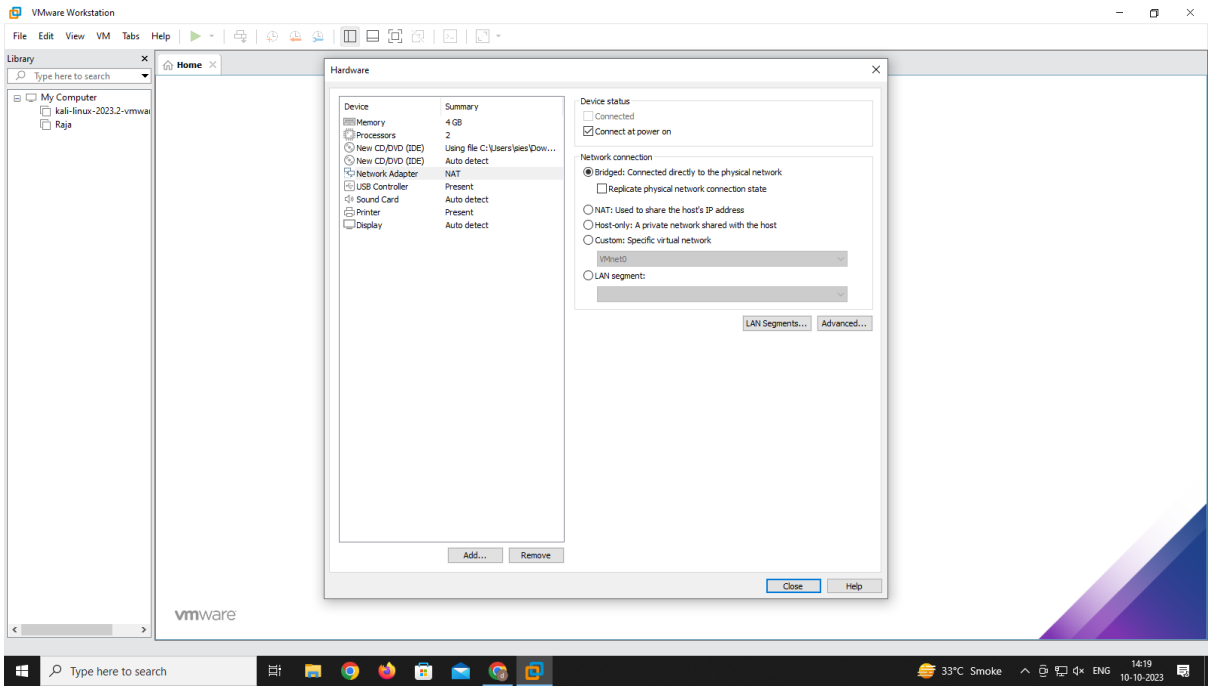


Change the number of cores per **processor** as **2** and select virtualize intel VT-x/EPT and then click on next

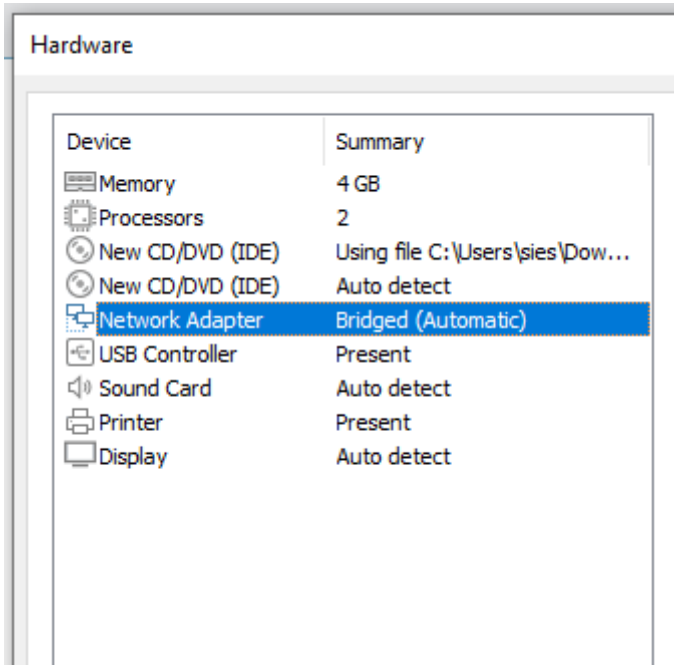




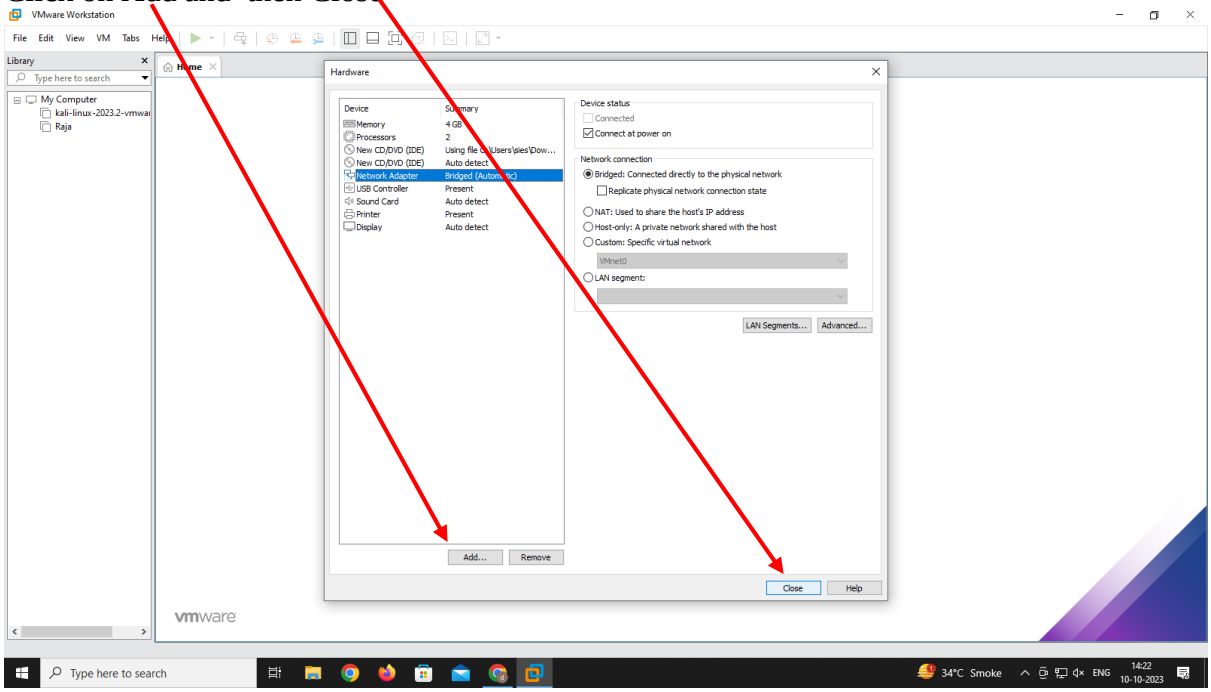
Go to **new D/DVD,** select connect at power on and select **bridge network connection**.



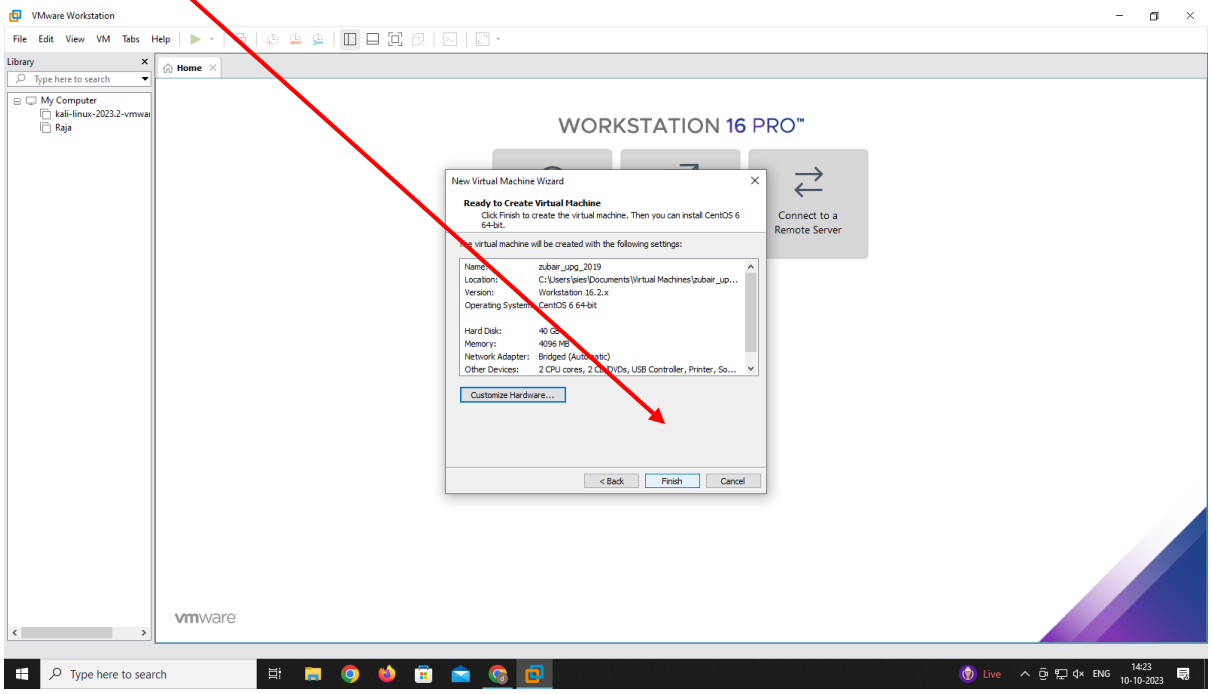
This are what we modified in above steps



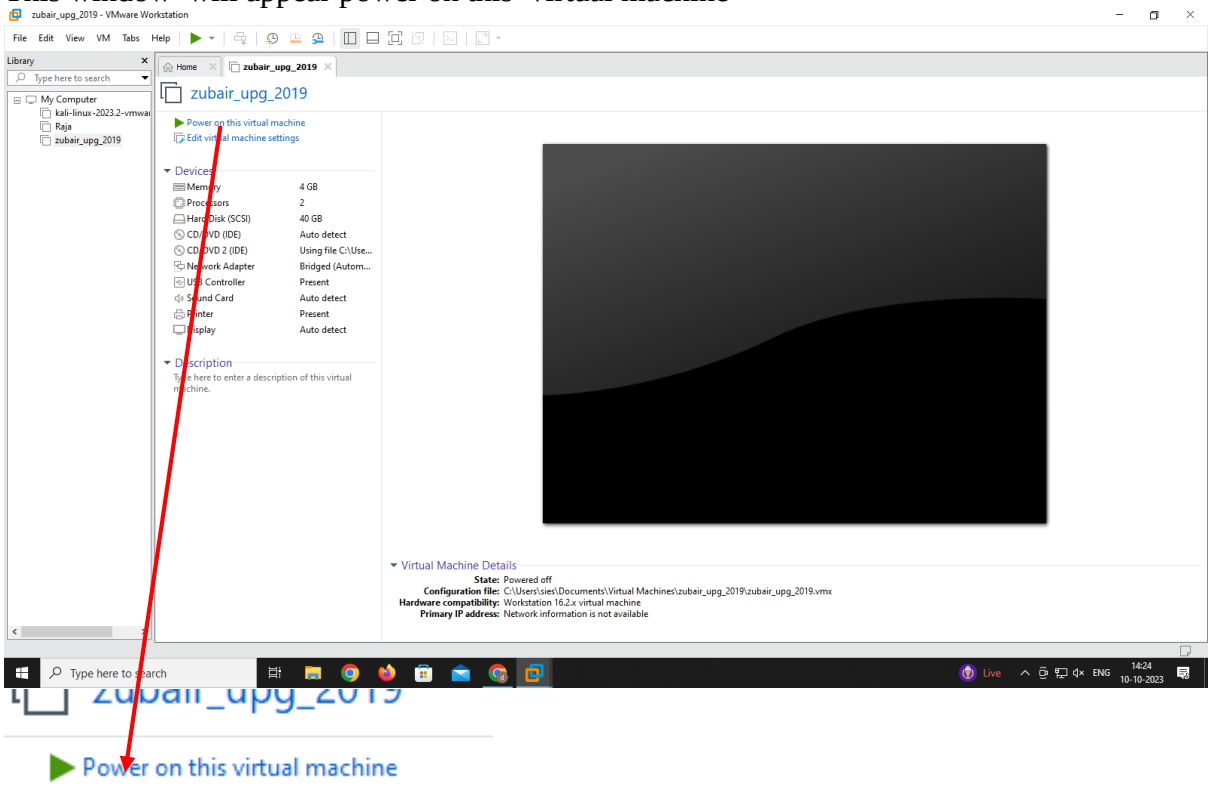
Click on Add and then Close



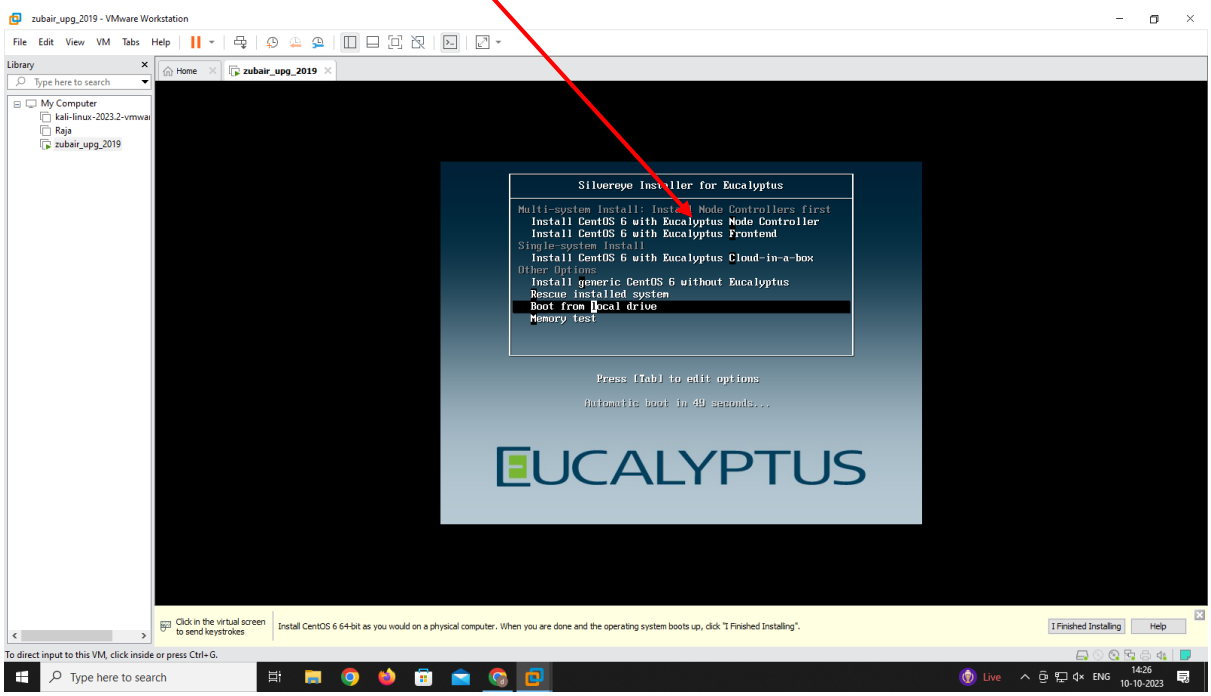
Click on finish



This window will appear power on this virtual machine

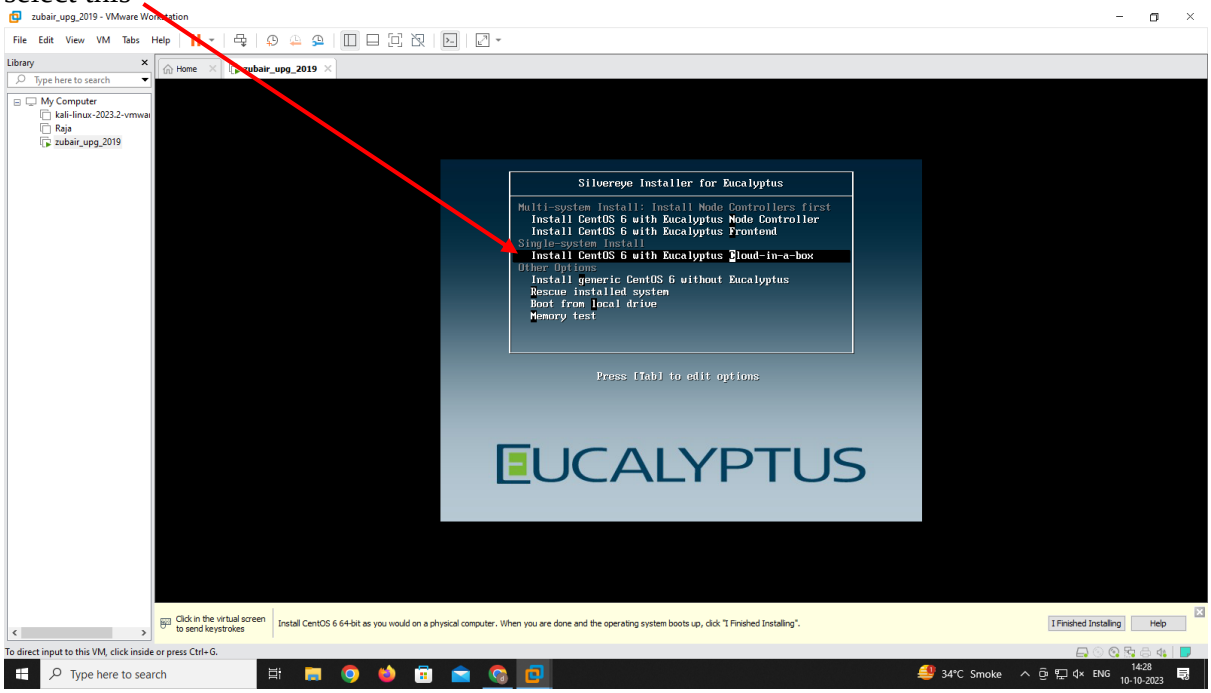


Here just select Install centOS 6 with Eucalyptus and press enter.

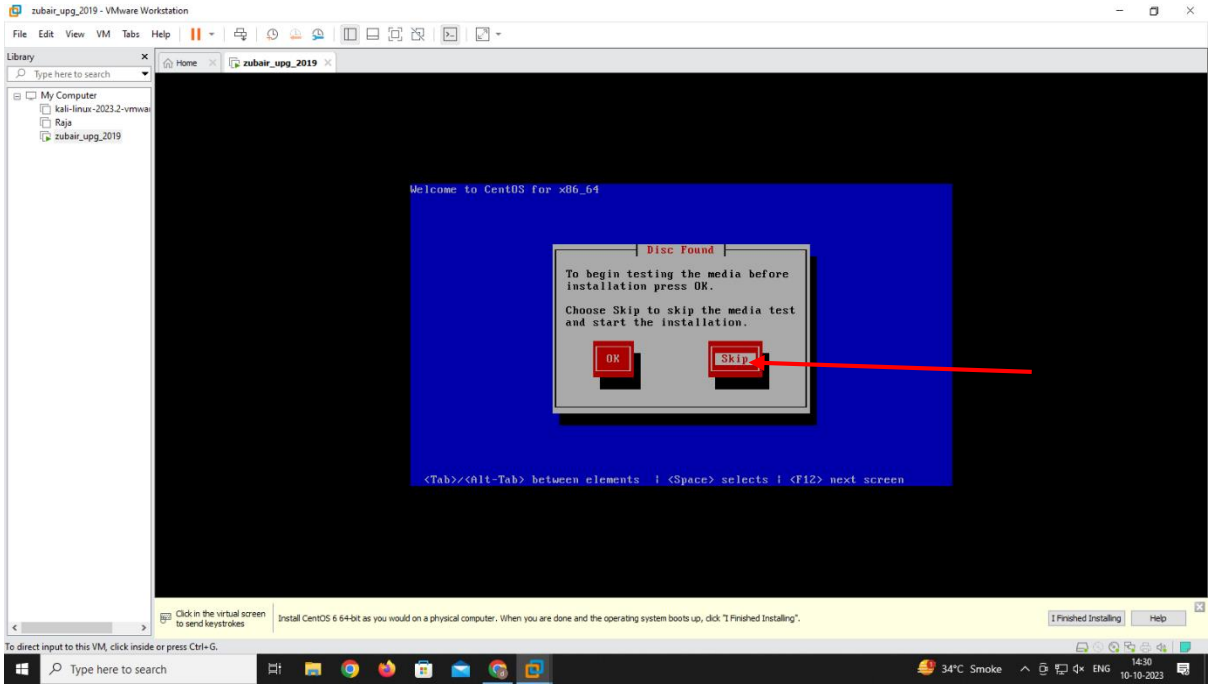


See below image for better understanding

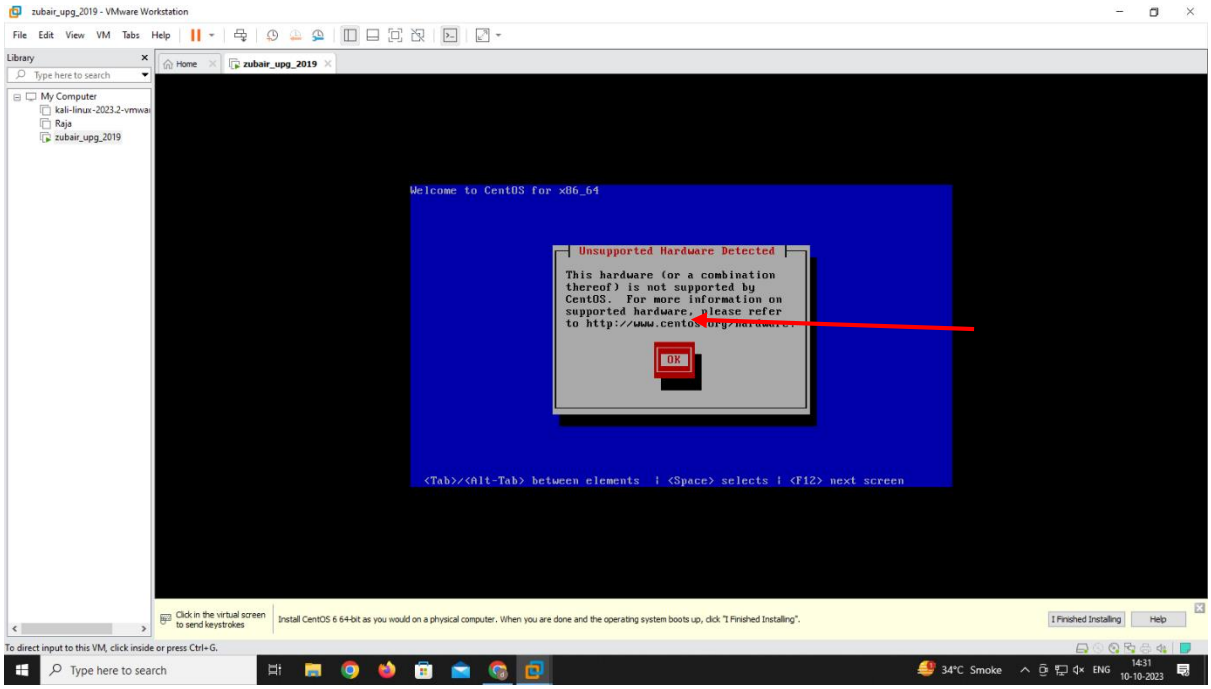
select this



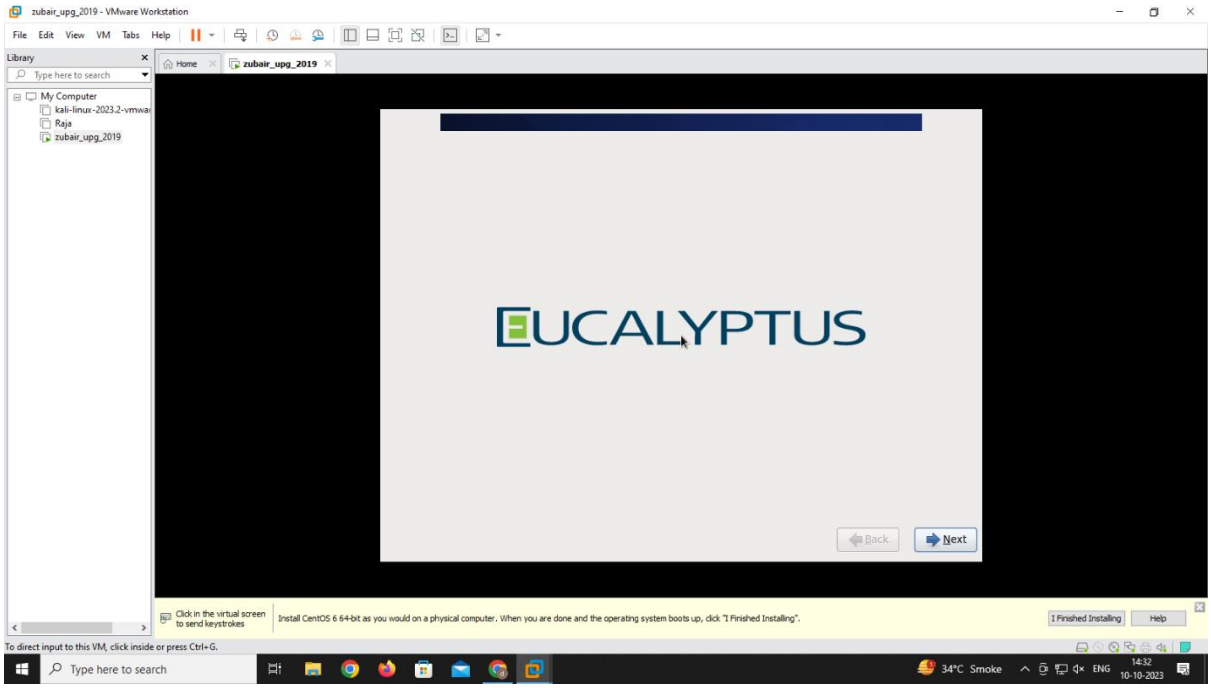
select skip



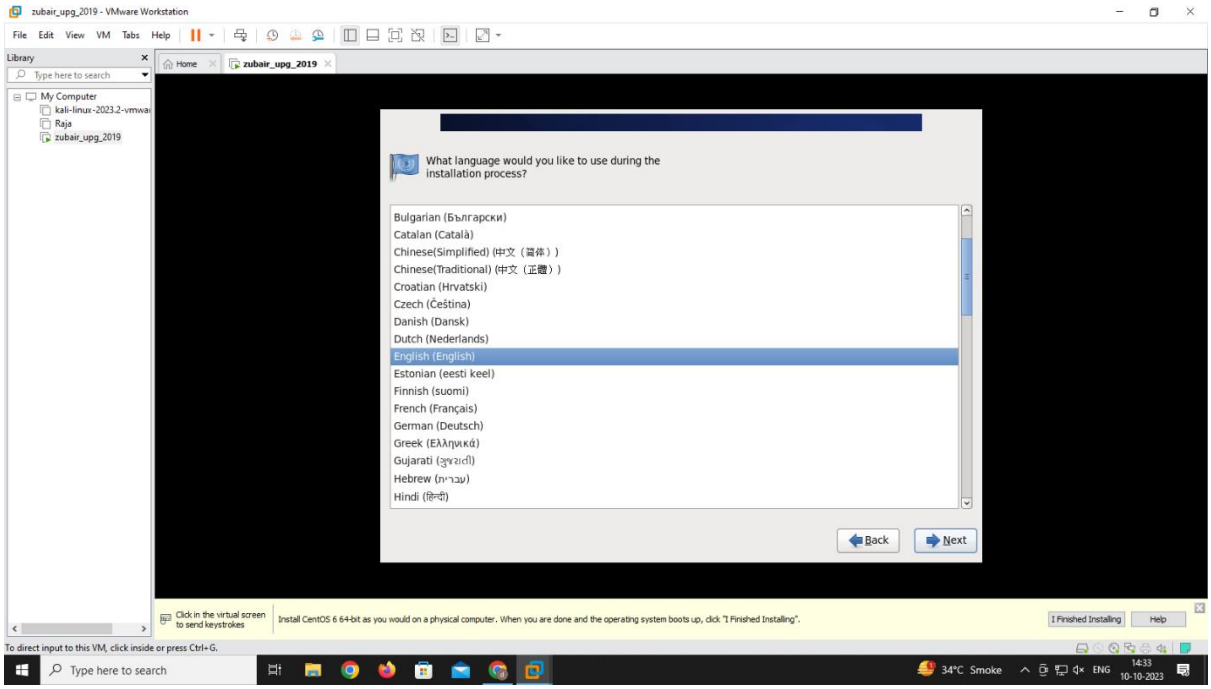
Click on ok



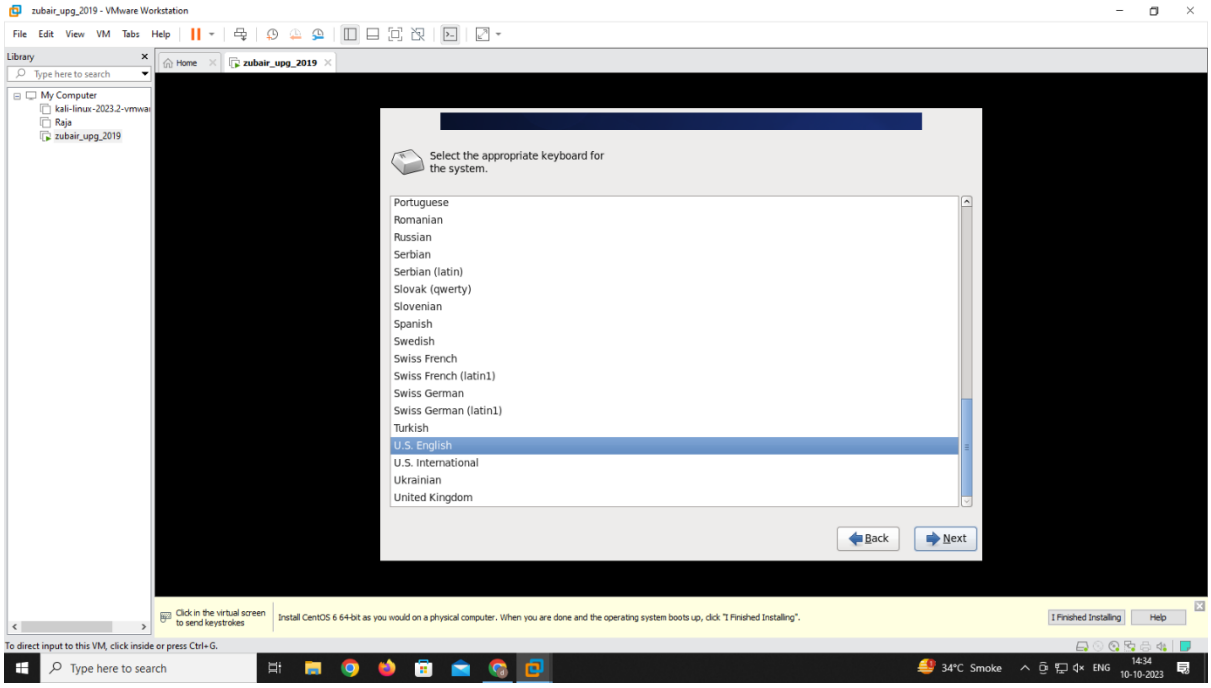
Click next

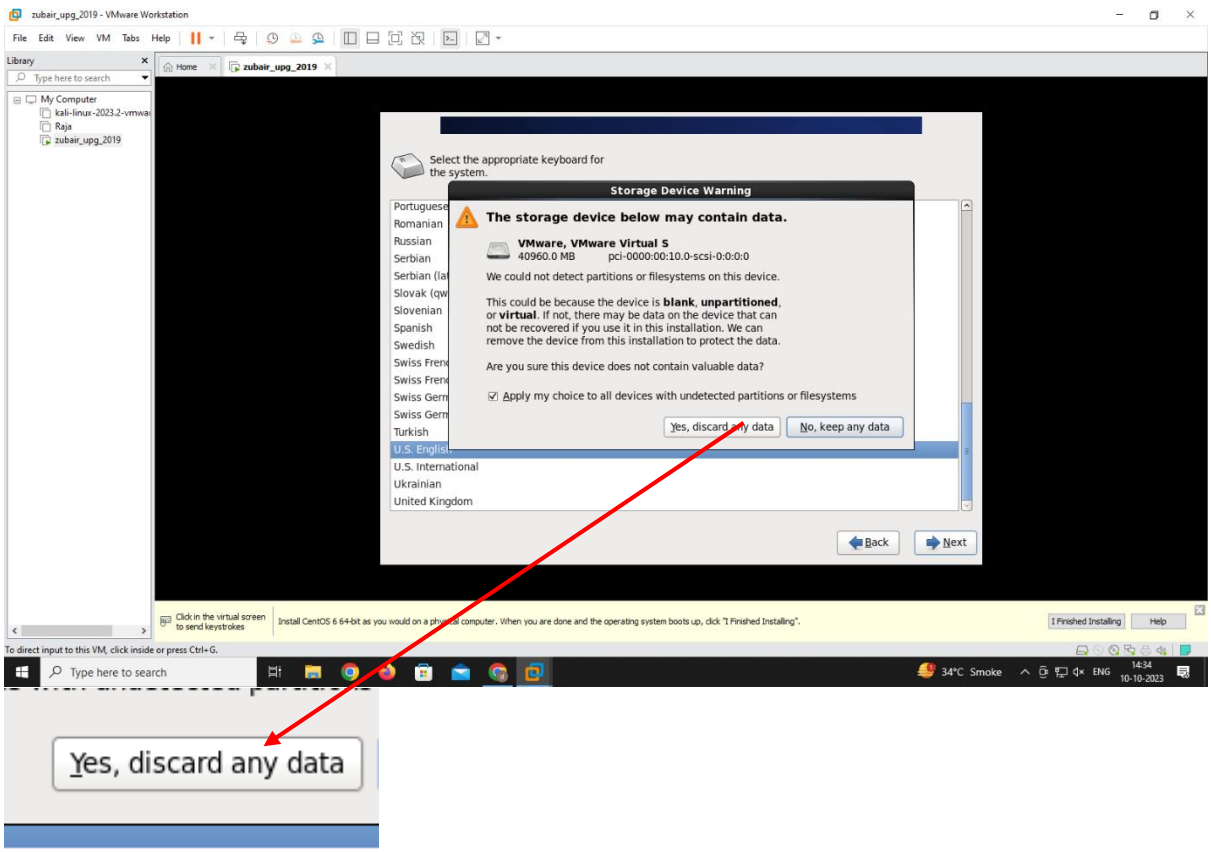


Select language english

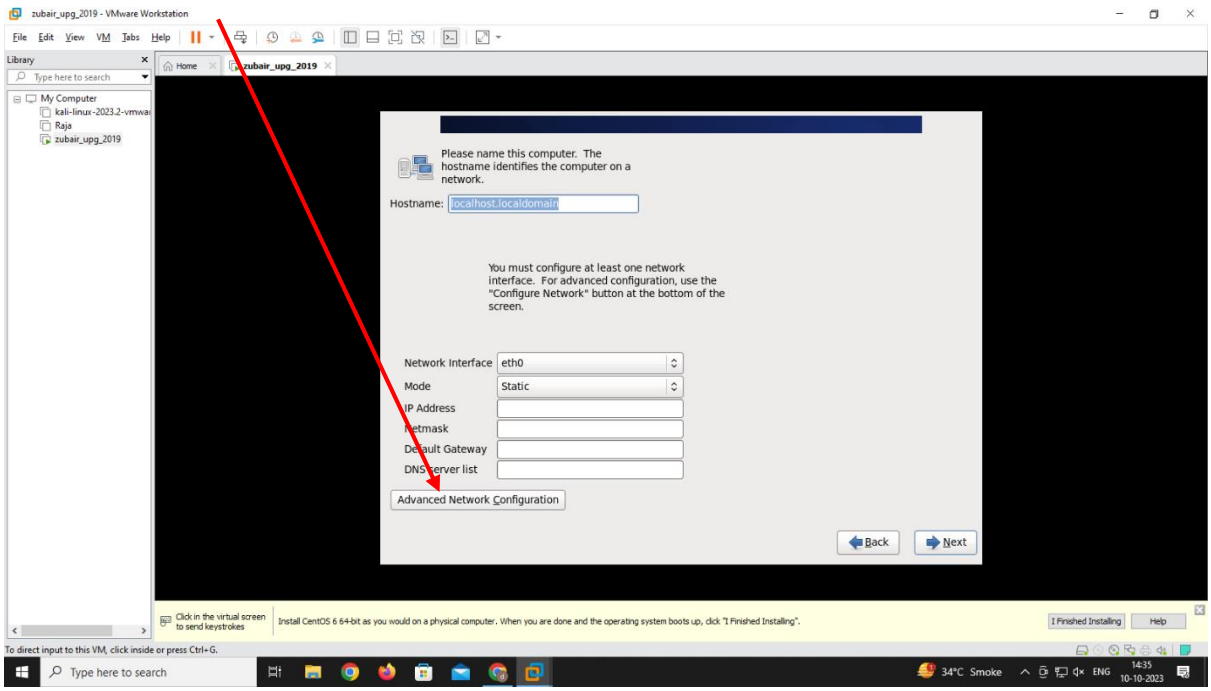


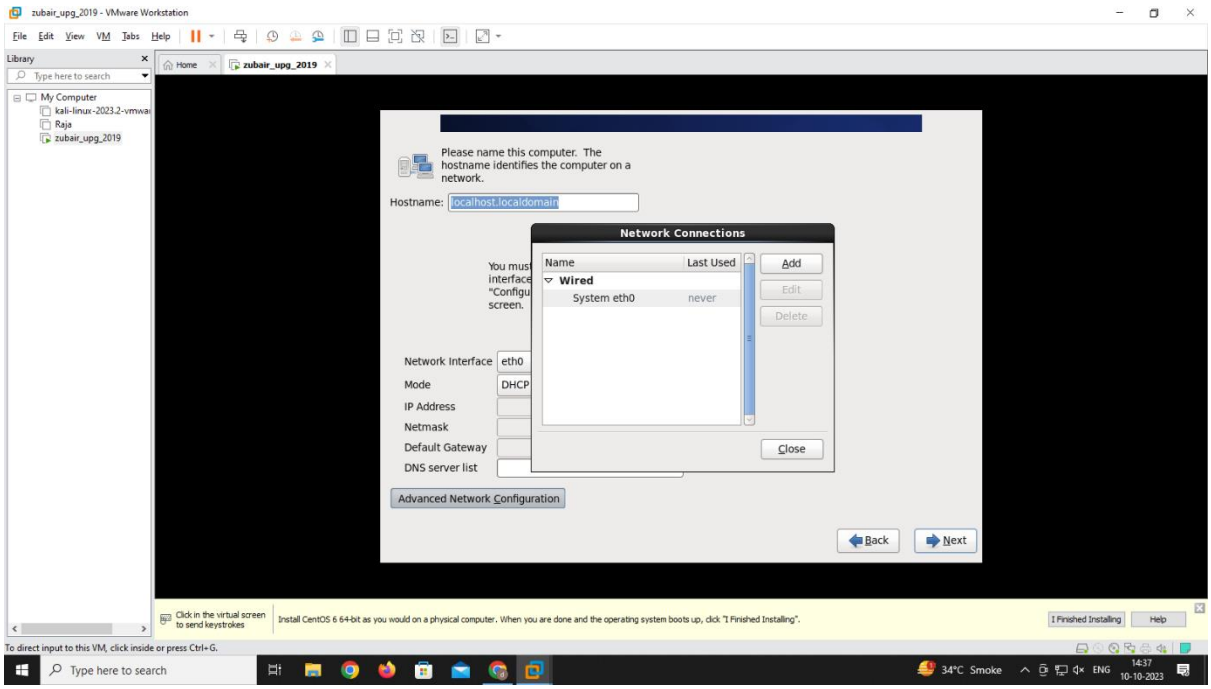
Click on **Us.English**



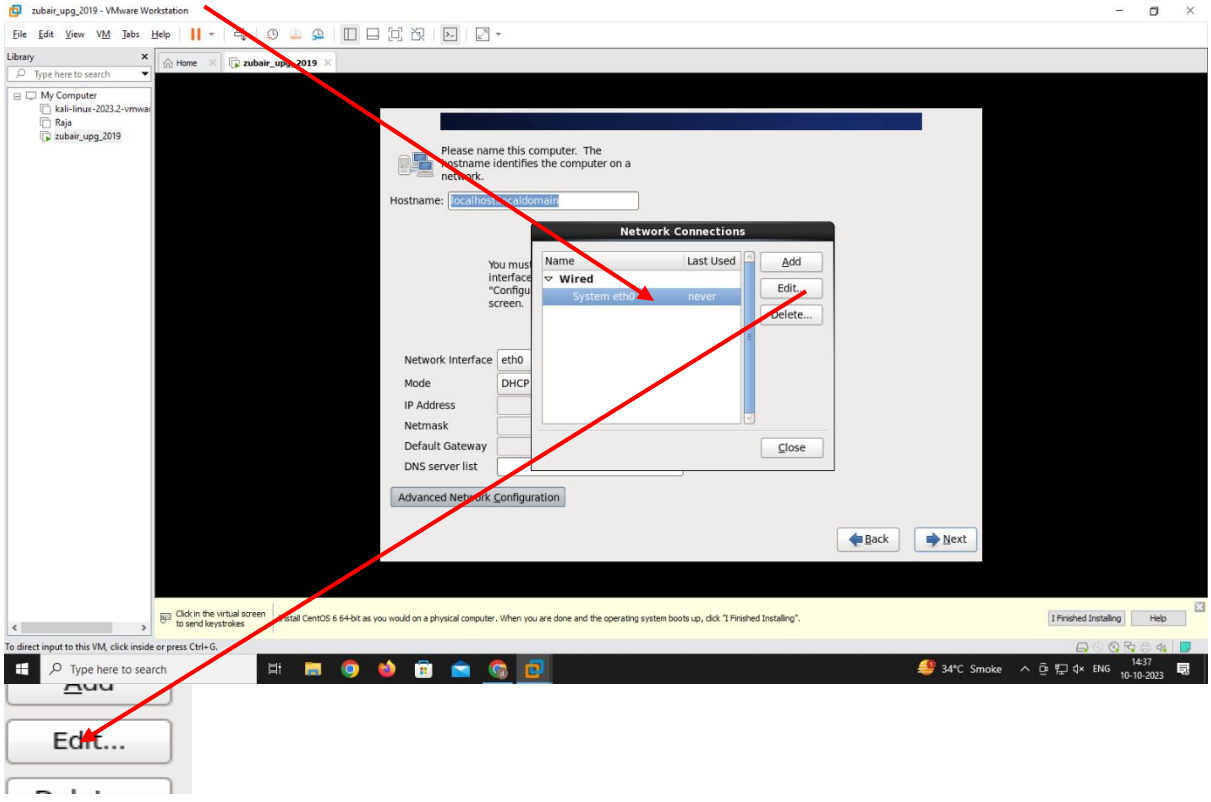


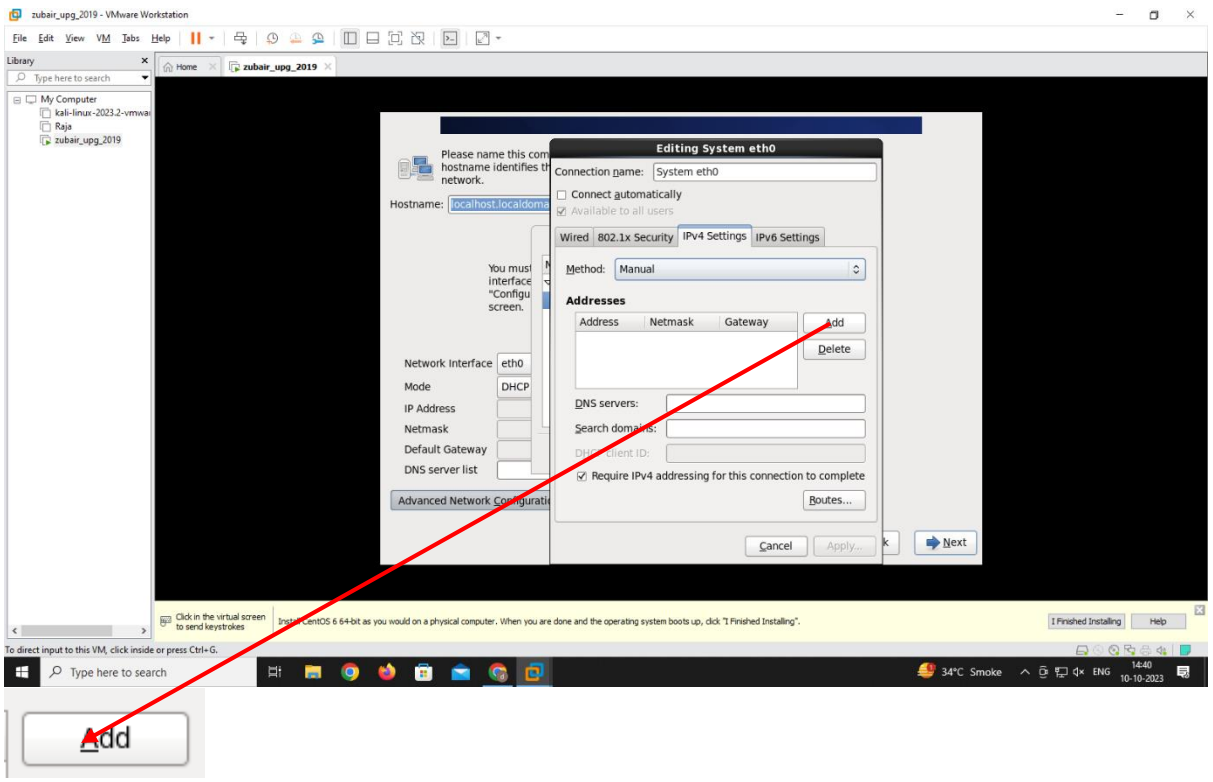
Click on **Advance Network Configuration**, select System eth0 and click on Edit.



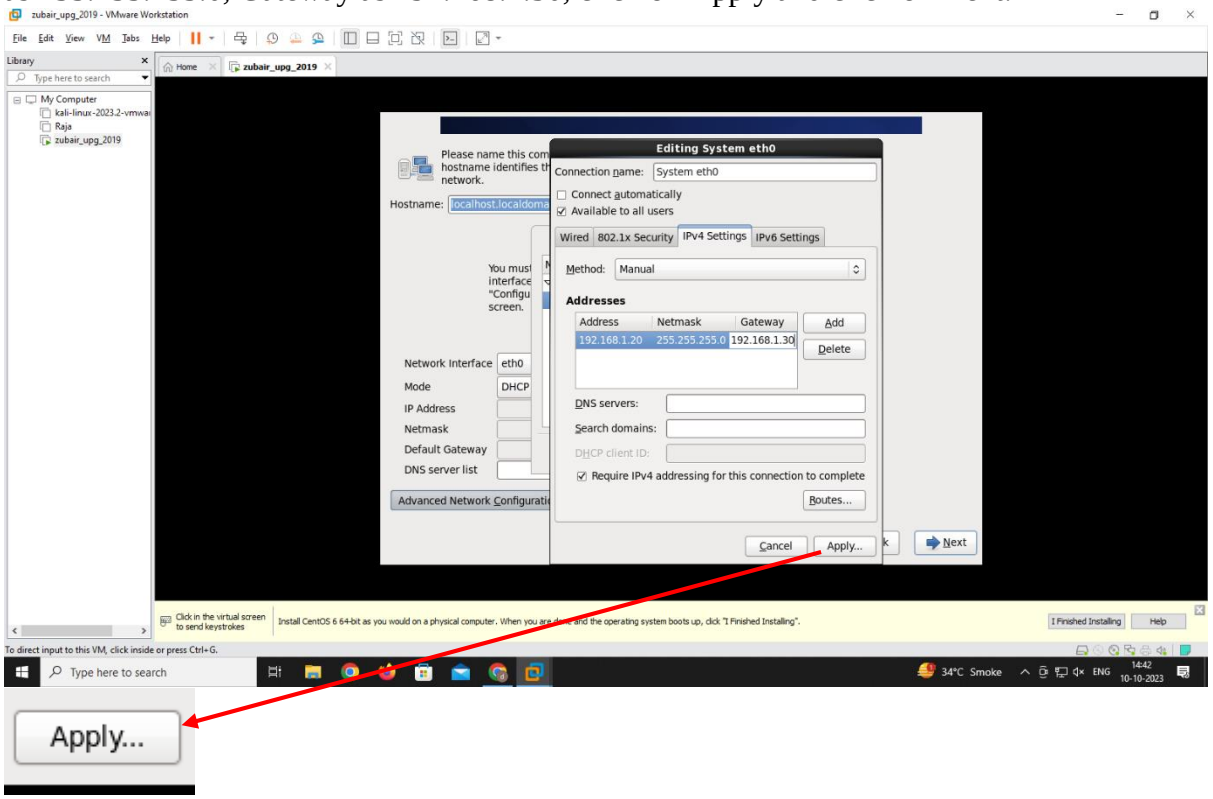


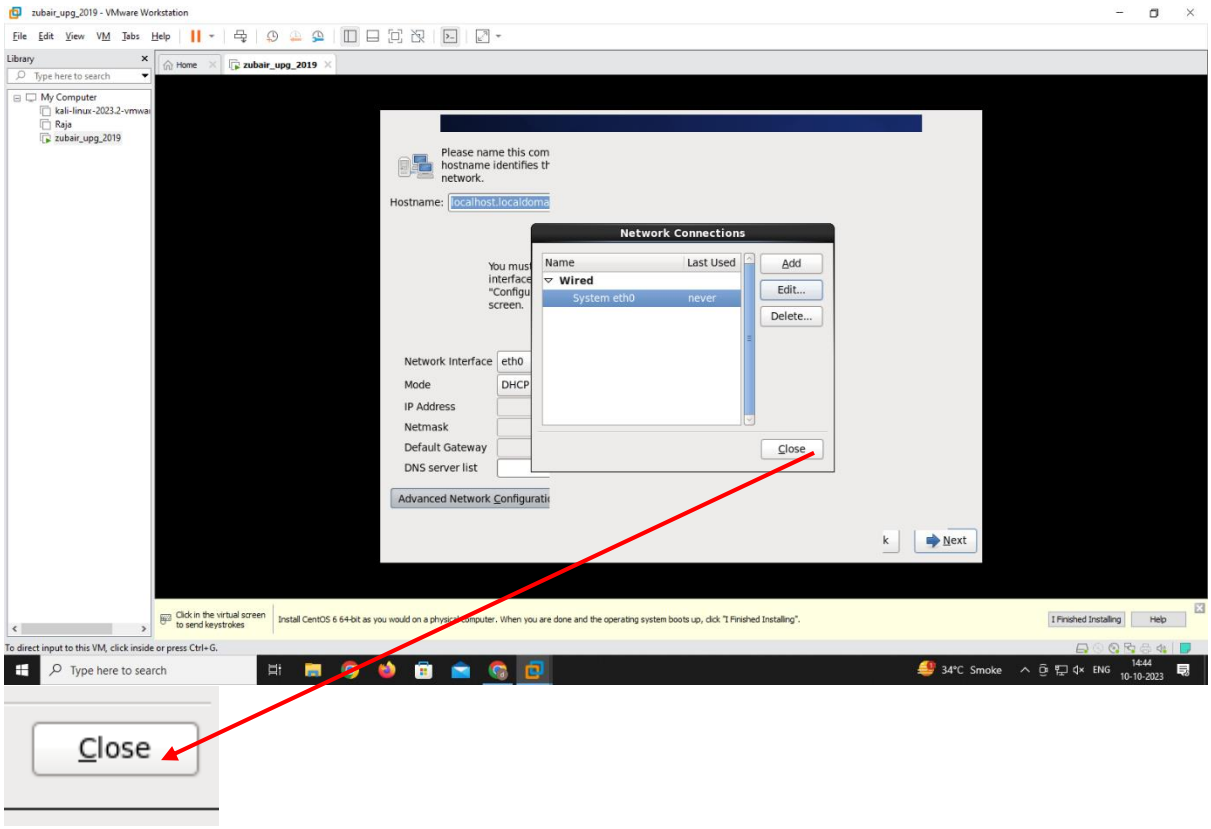
Select system etho and select edit

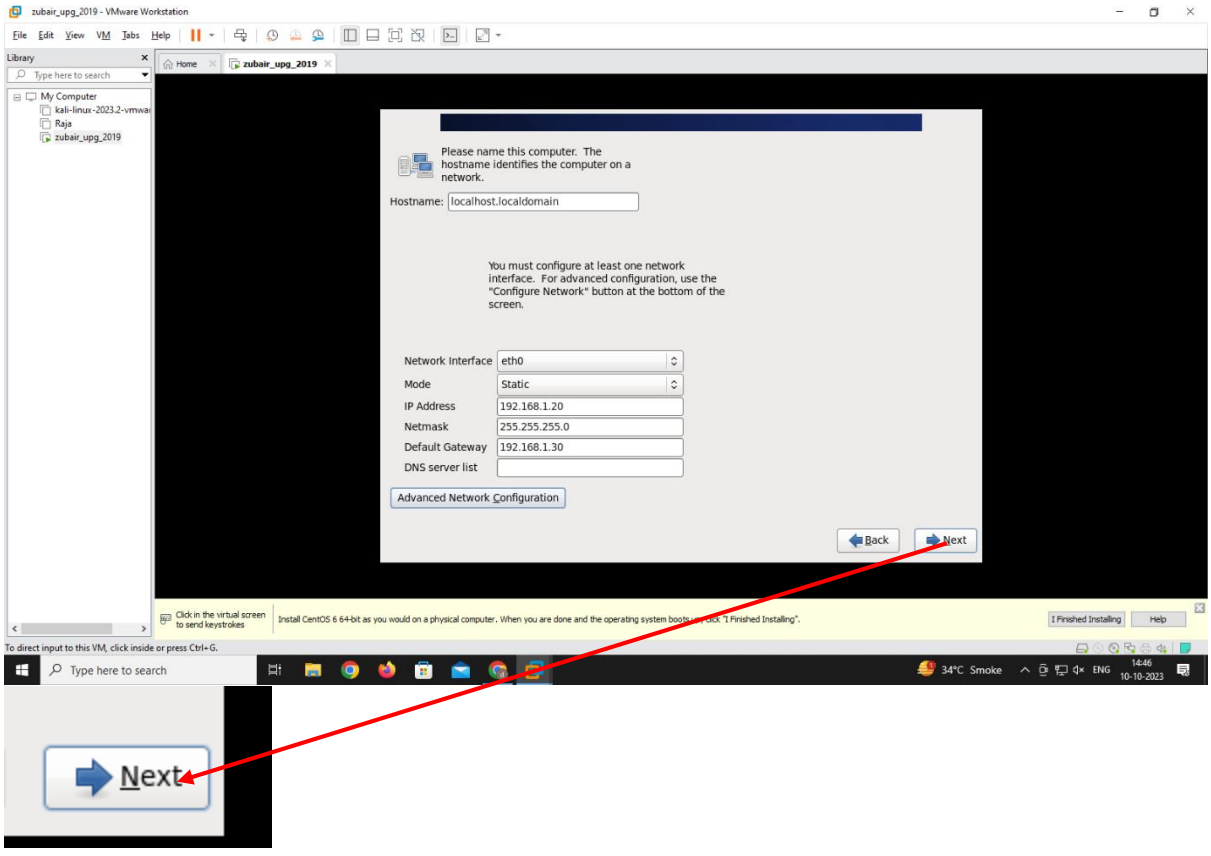




Click on IPv4 settings make the method manual and give Address as 192.168.1.20, Netmask as 255.255.255.0, Gateway as 192.168.1.30, click on Apply and click on Next.

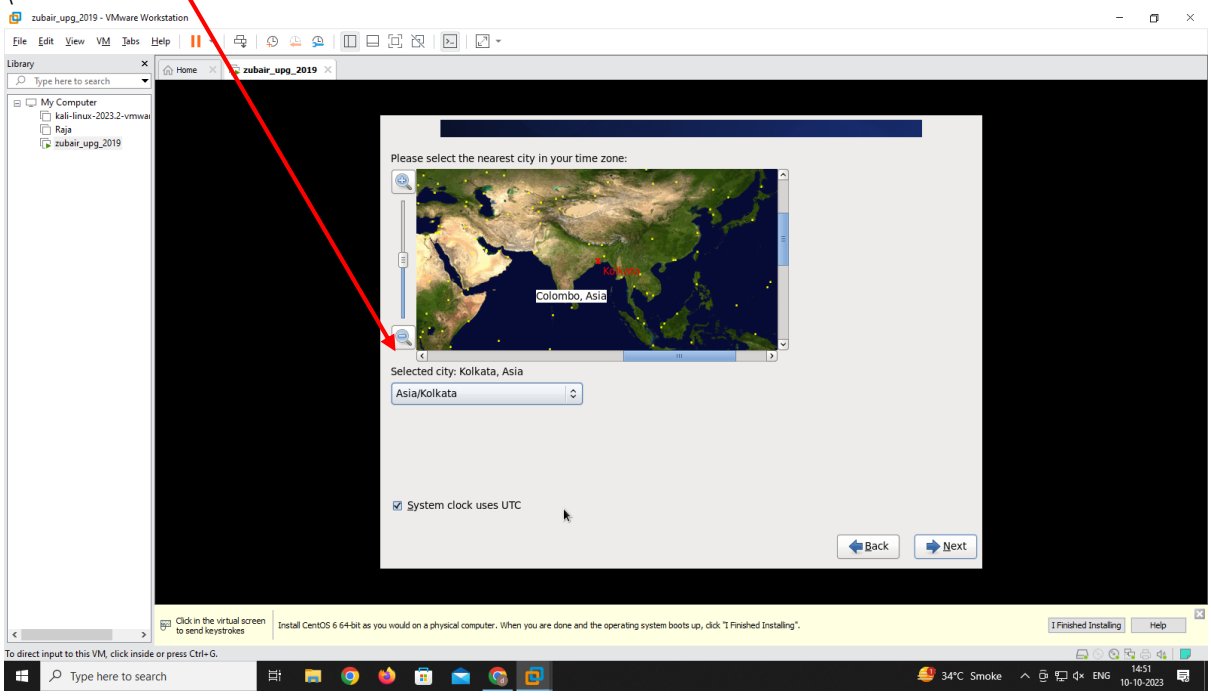



zubair_upg_2019 - VMware Workstation
Network Connections
Name
Last Used
Wired
System eth0
never
Add
Edit...
Delete...
Close
Network Interface
eth0
Mode
DHCP
IP Address
Netmask
Default Gateway
DNS server list
Advanced Network Configurati
Next
Close

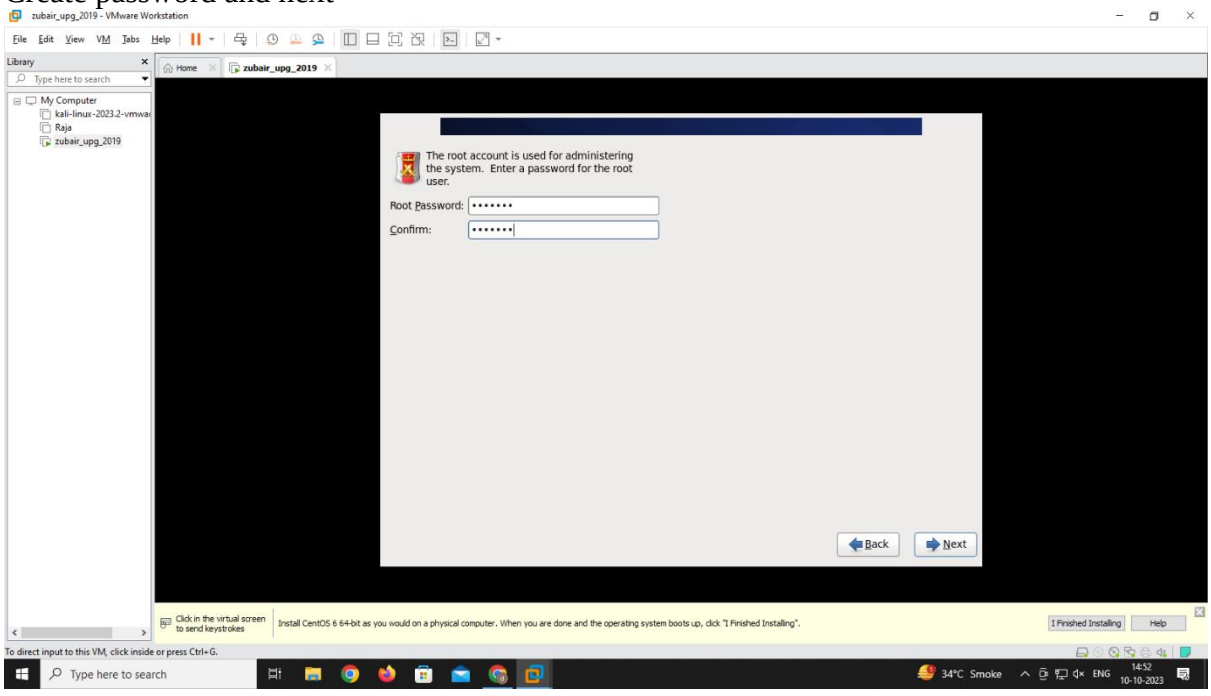

zubair_upg_2019 - VMware Workstation
Please name this computer. The hostname identifies the computer on a network.
Hostname:
localhost.localdomain
You must configure at least one network interface. For advanced configuration, use the "Configure Network" button at the bottom of the screen.
Network Interface
eth0
Mode
Static
IP Address
192.168.1.20
Netmask
255.255.255.0
Default Gateway
192.168.1.30
DNS server list
Advanced Network Configuration
Back
Next
Next

Select **Asia,Kolkata** and then next

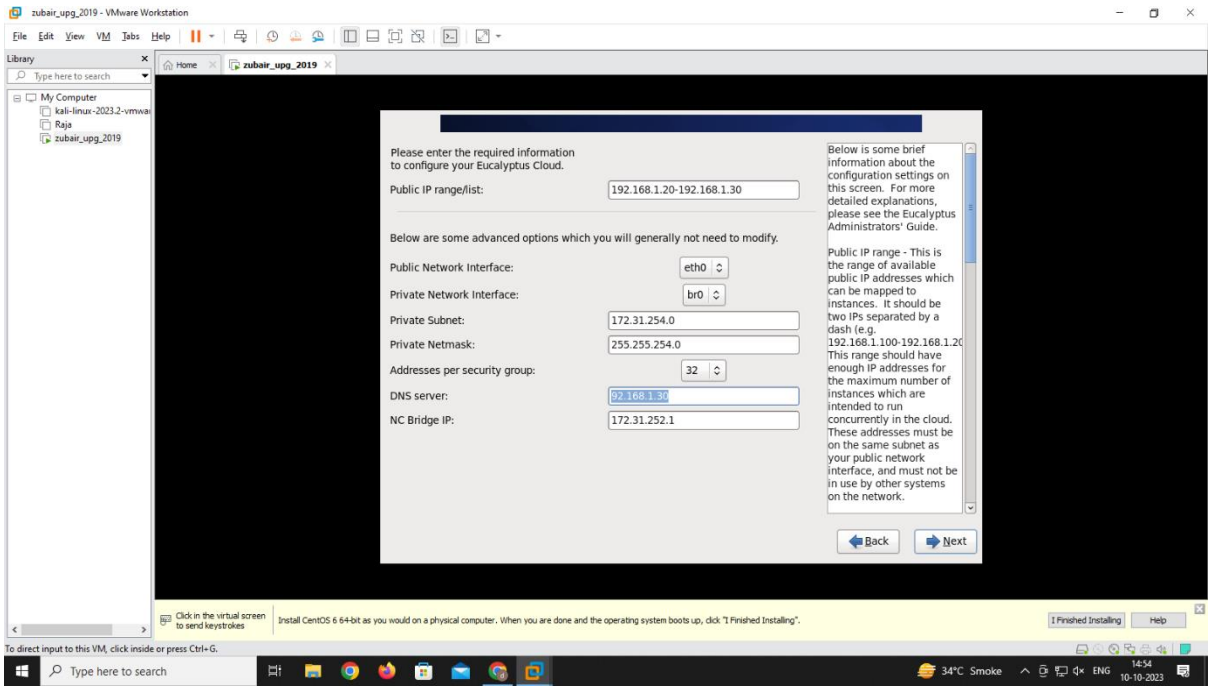
\



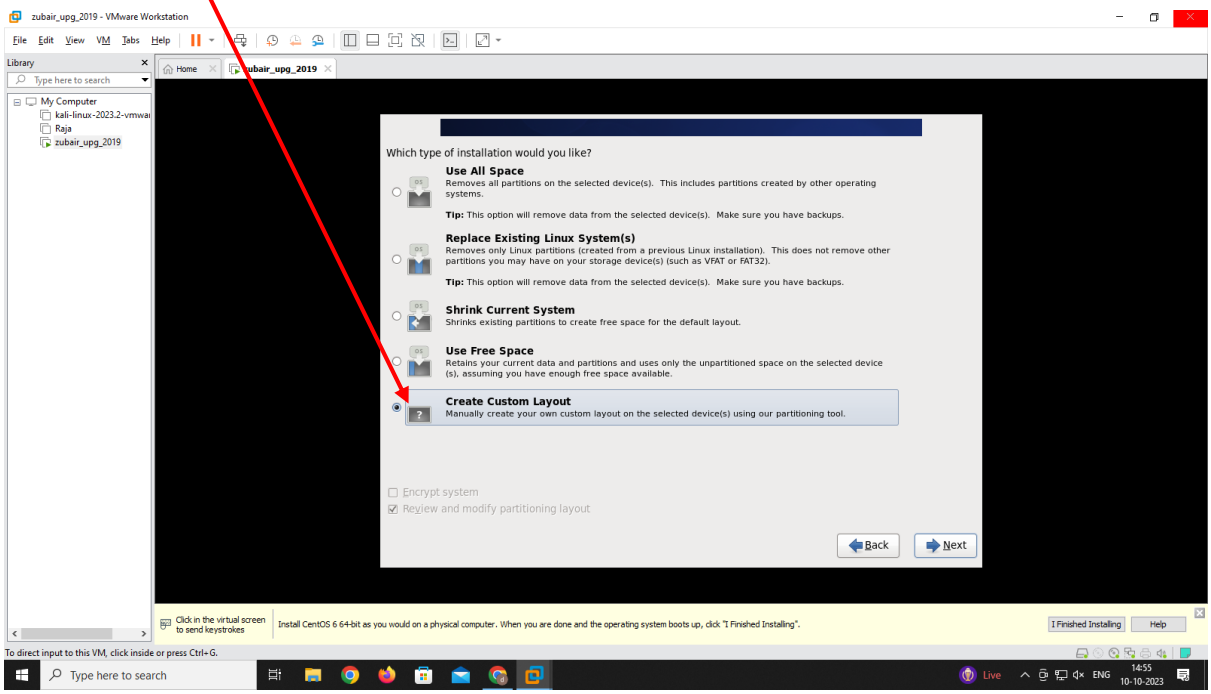
Create password and next



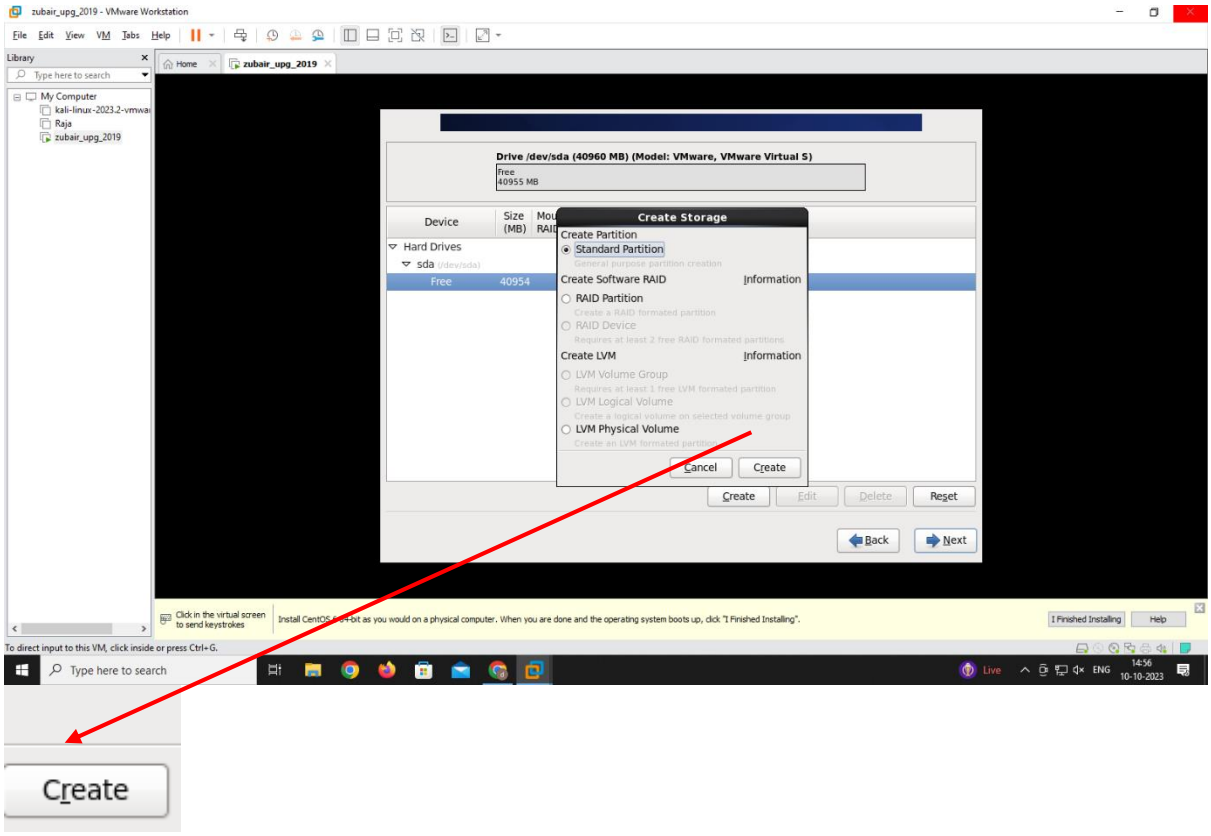
Here give public IP range 192.168.1.20-192.168.1.30 and DNS server as 192.168.1.30, click on next



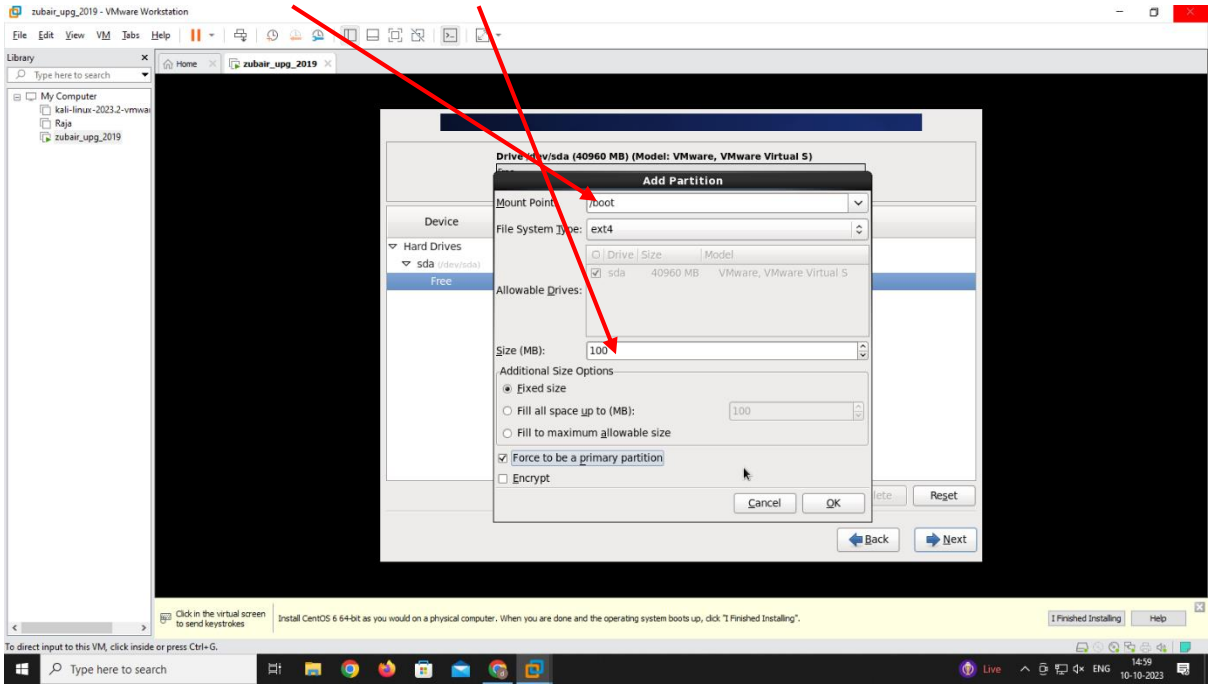
Select **Create Custom layout,** click on Next.



Select Standard partition and click on Create.

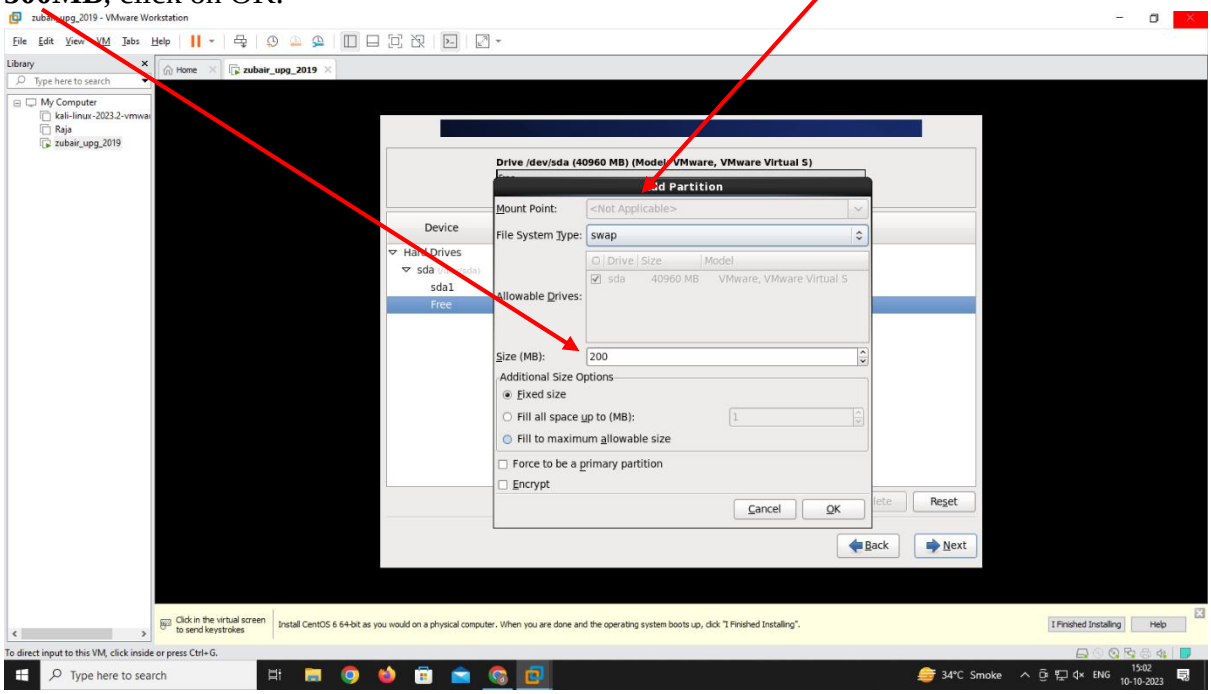


Give mount point as **/boot**, size as **100MB** and click on OK.

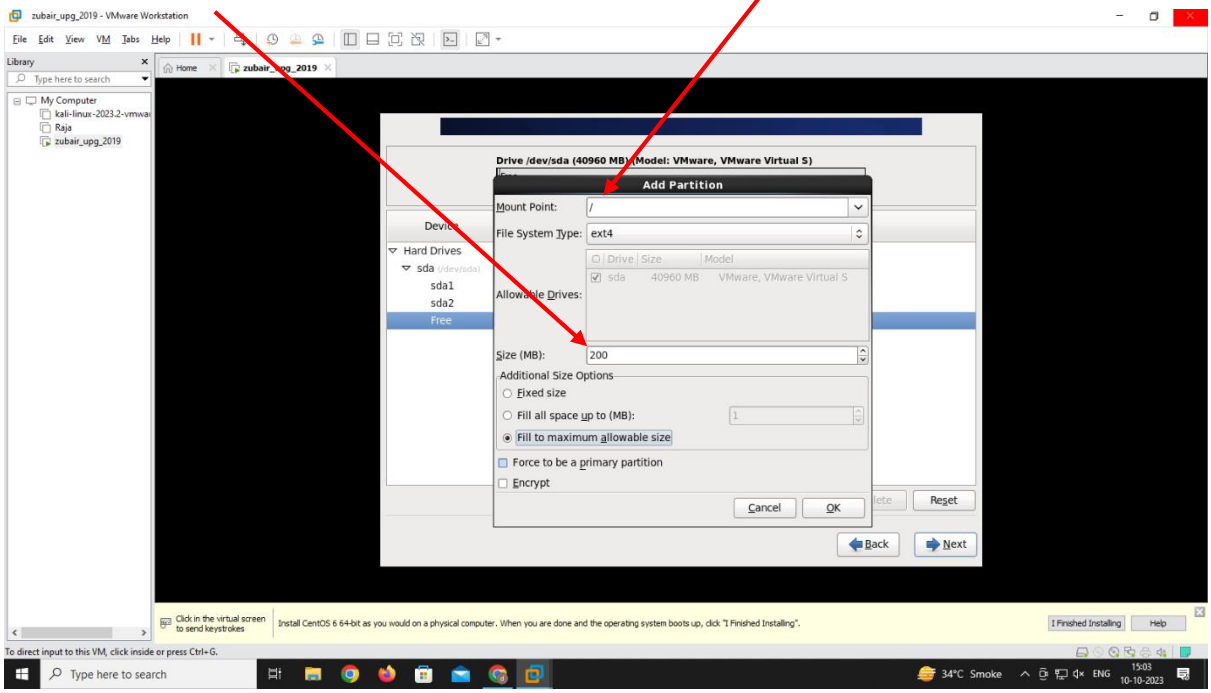


REPEAT THIS STEP 2 TIMES

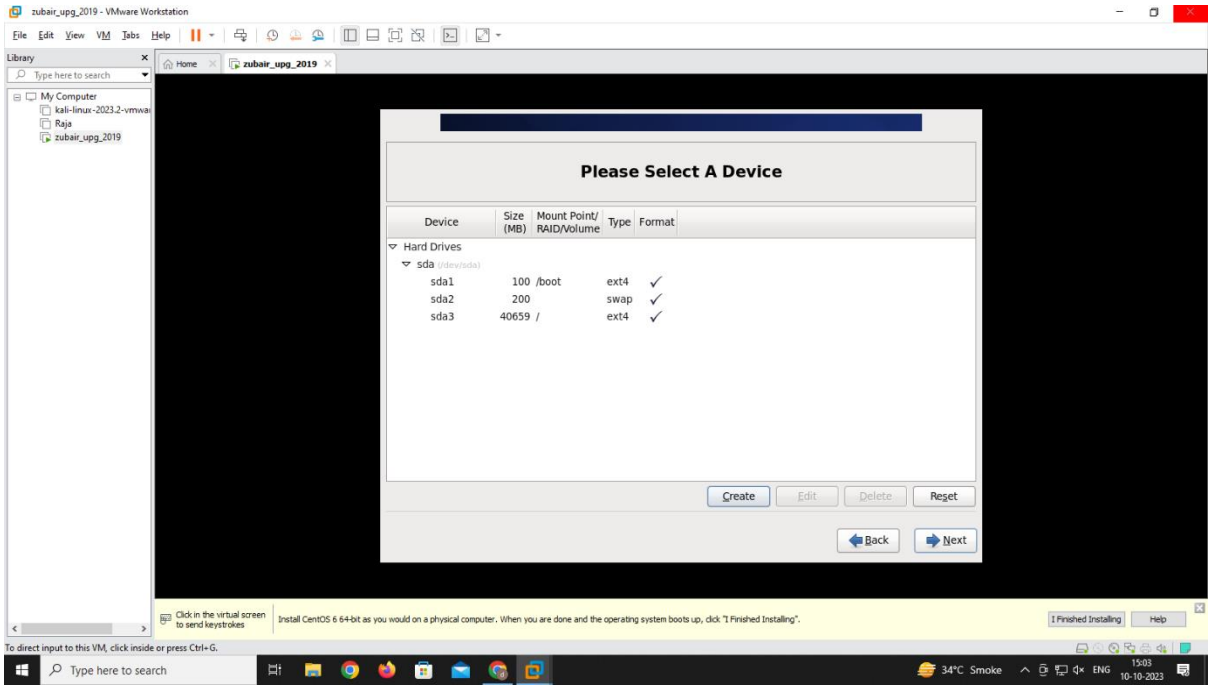
Perform Step 21 same as above and then select file system type as **swap** and give size as **500MB**, click on OK.

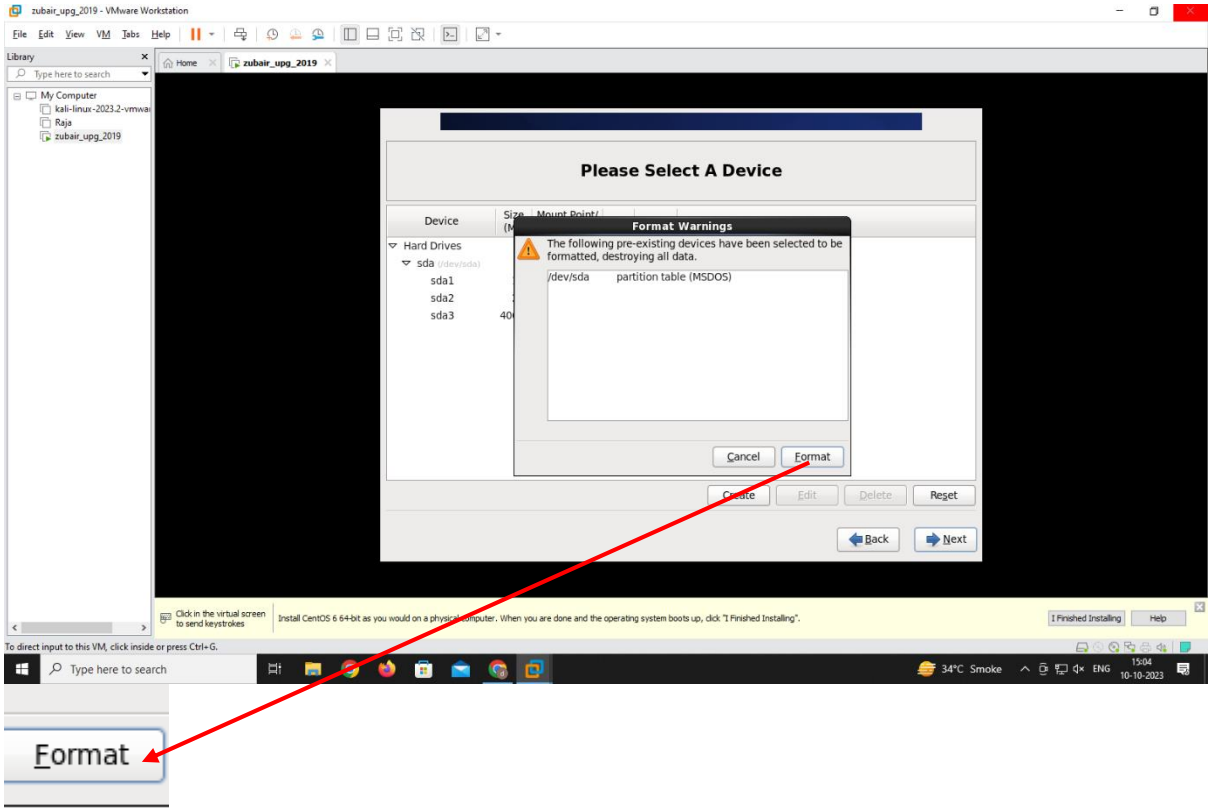


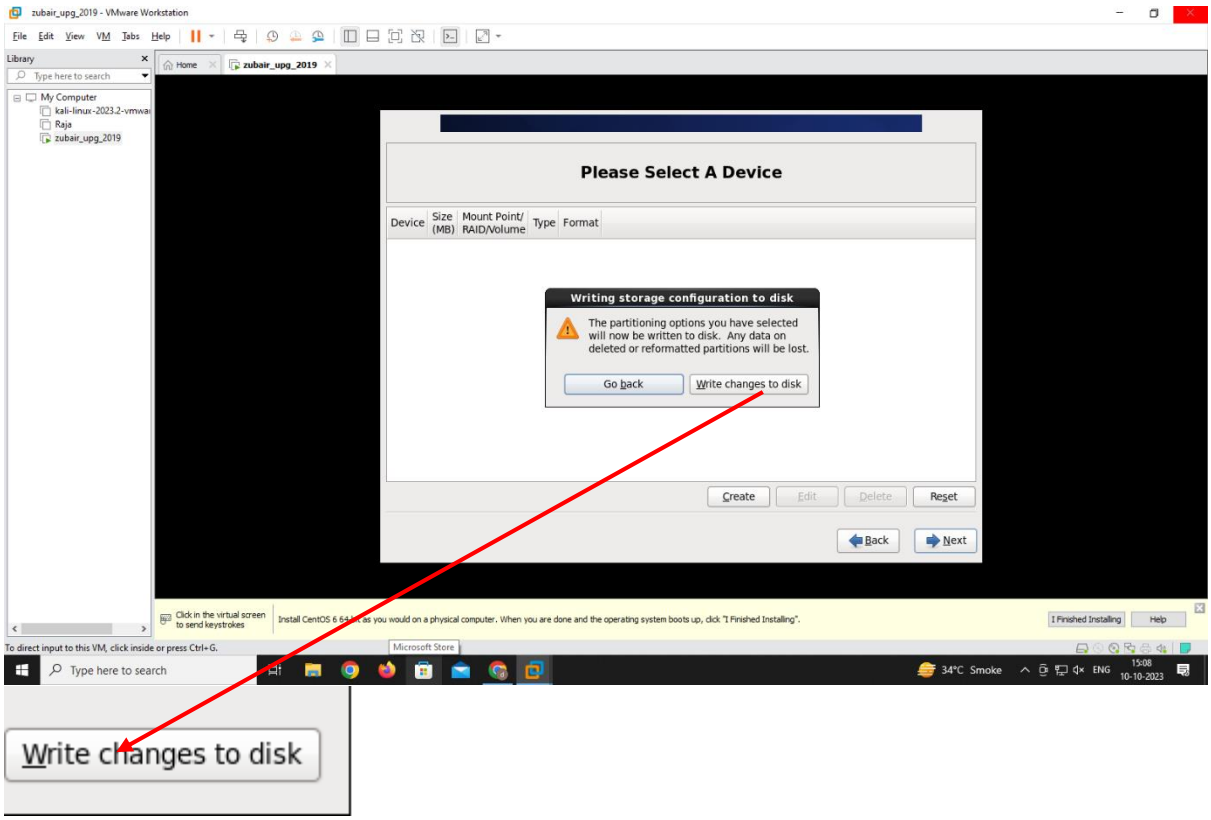
Perform Step 21 same as above and then select mount point as / file system type as ext4 and give size as **200MB** and select fill to maximum allowable size, click on OK.



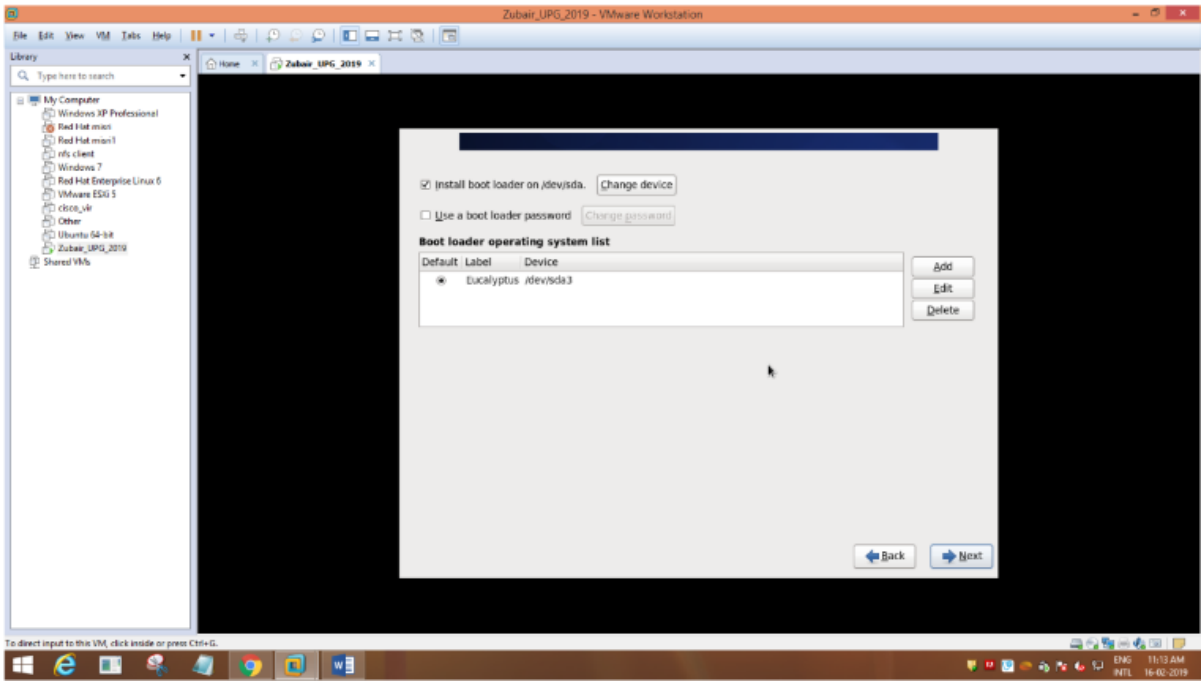
Click on **next**



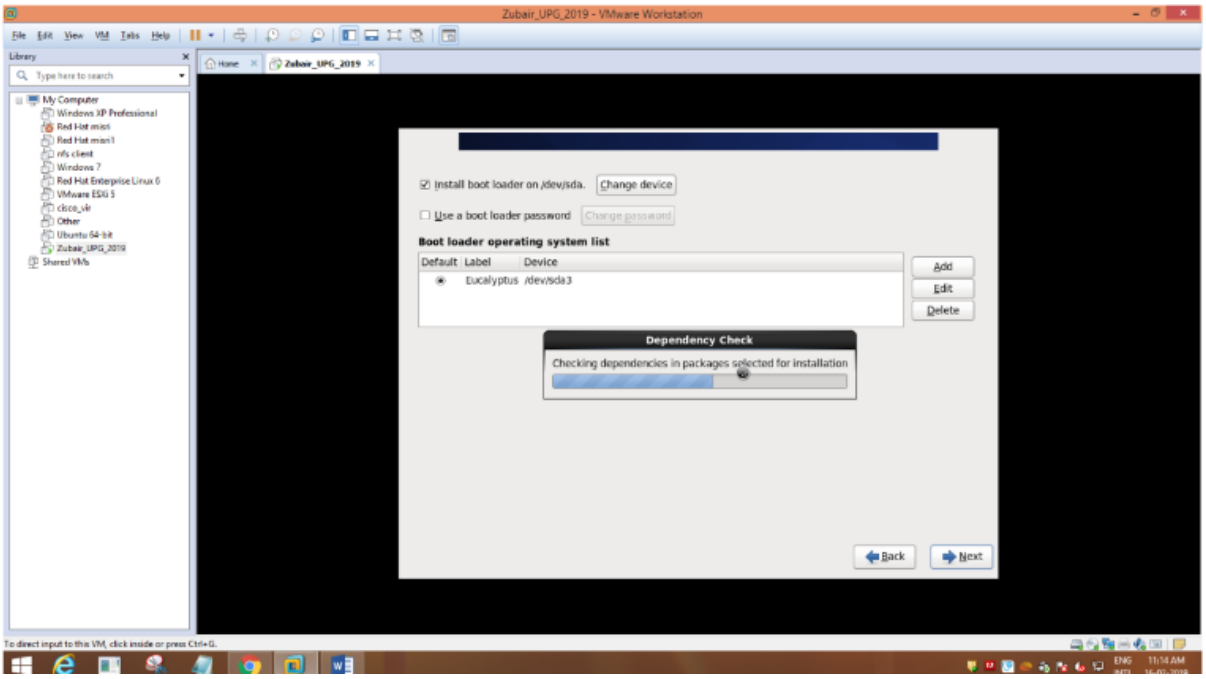


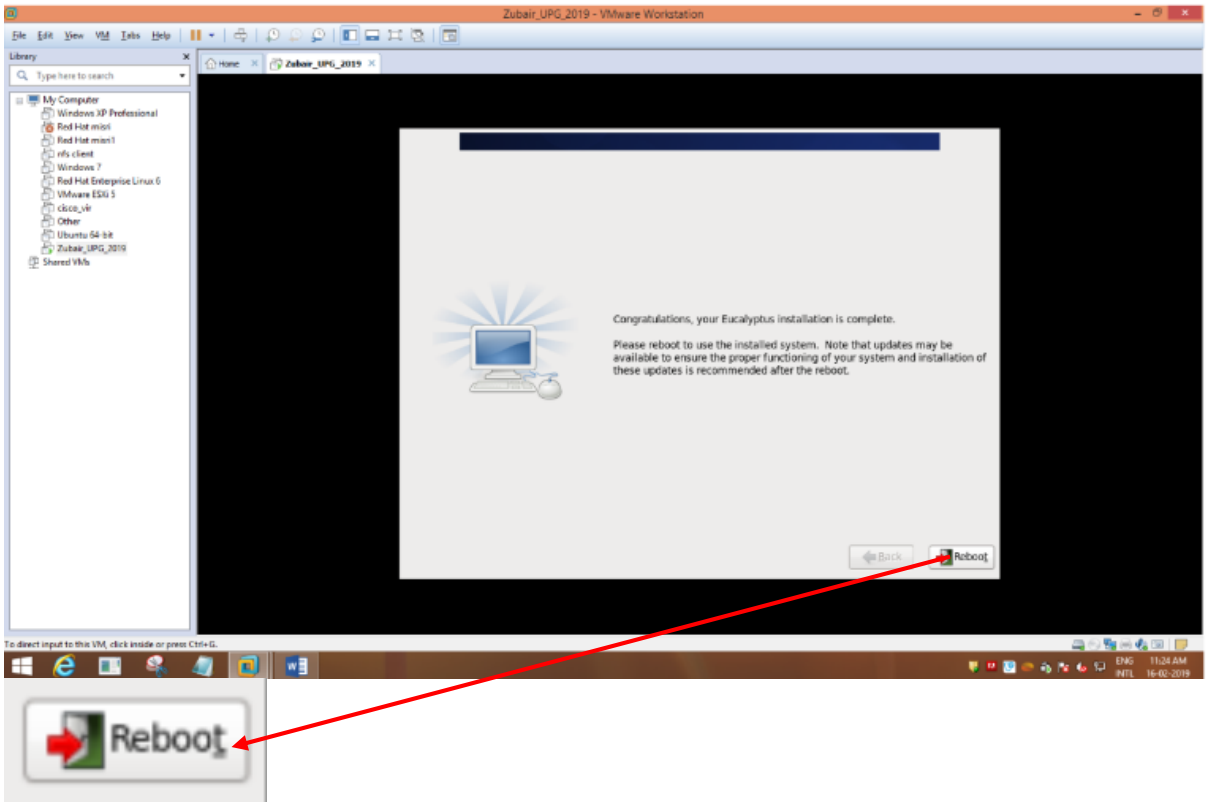

Please Select A Device
Device
Size (MB)
Mount Point/ RAID/Volume
Type
Format
Writing storage configuration to disk
The partitioning options you have selected will now be written to disk. Any data on deleted or reformatted partitions will be lost.
Go back
Write changes to disk
Create
Edit
Delete
Reset
Back
Next
Write changes to disk

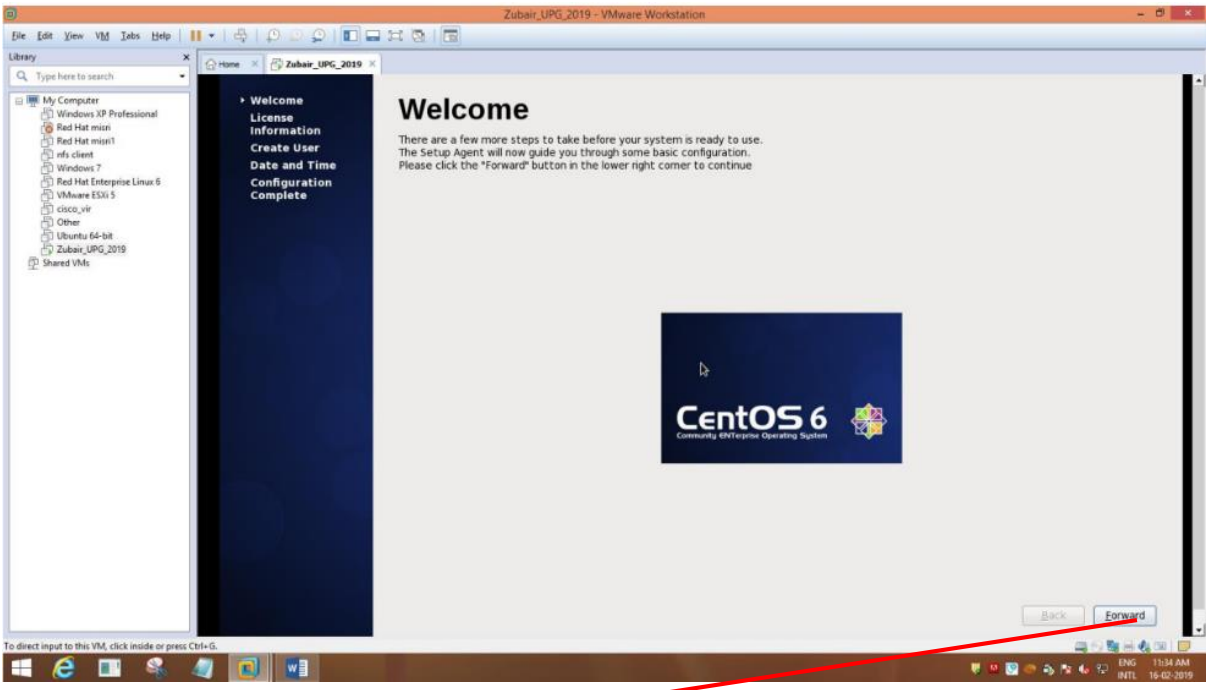
Click next


Install boot loader on /dev/sda.
Change device
Use a boot loader password
Change password
Boot loader operating system list
Default
Label
Device
Eucalyptus
/dev/sda3
Add
Edit
Delete
Back
Next

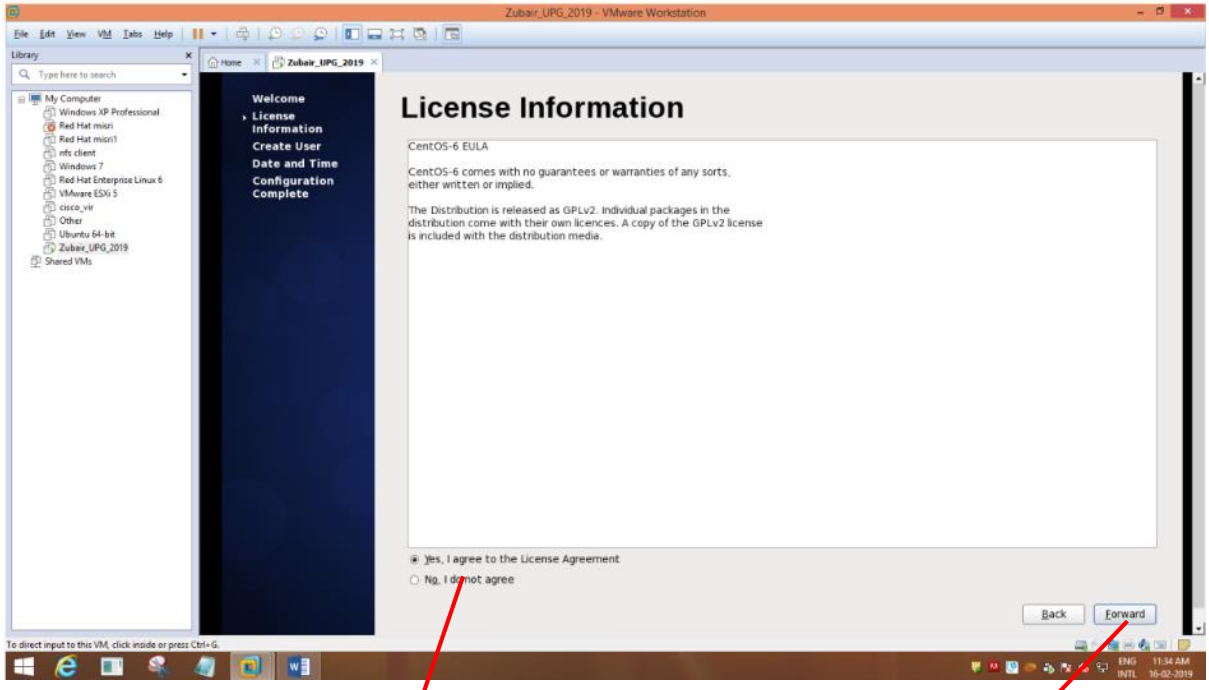
Click next and finish

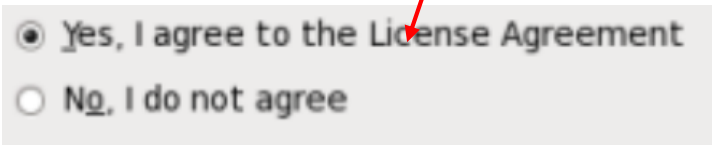




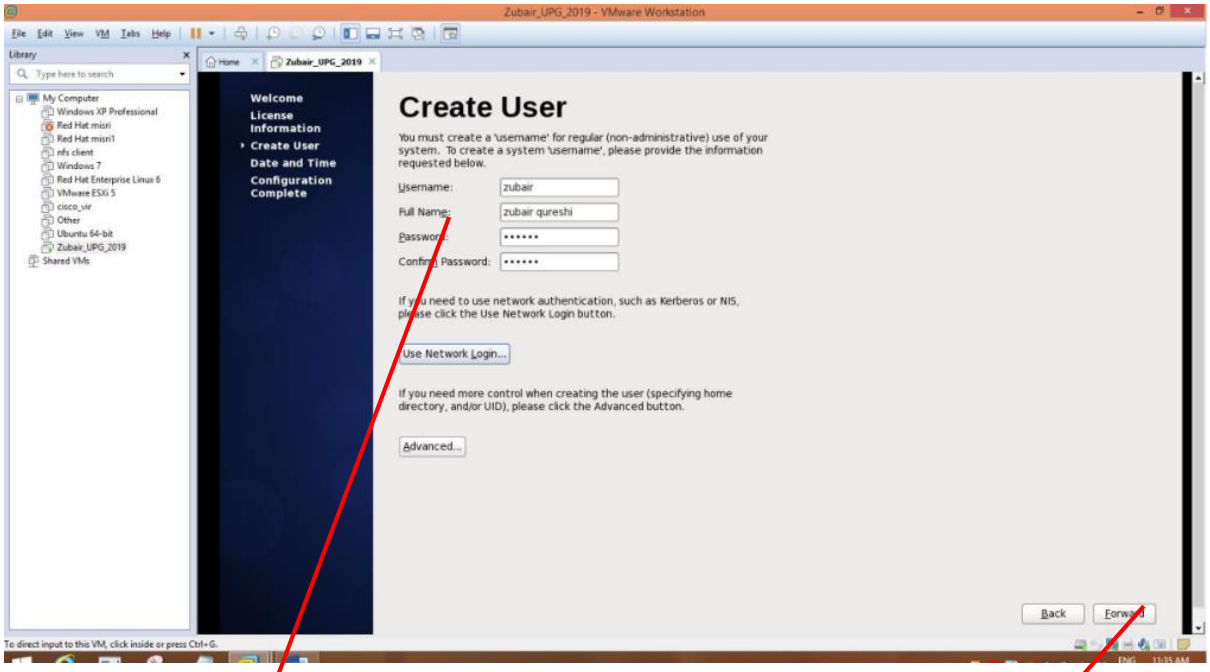

Zubair_UPG_2019 - VMware Workstation
Welcome
License Information
Create User
Date and Time
Configuration Complete
Welcome
There are a few more steps to take before your system is ready to use.
The Setup Agent will now guide you through some basic configuration.
Please click the "Forward" button in the lower right corner to continue
CentOS 6
Back
Forward

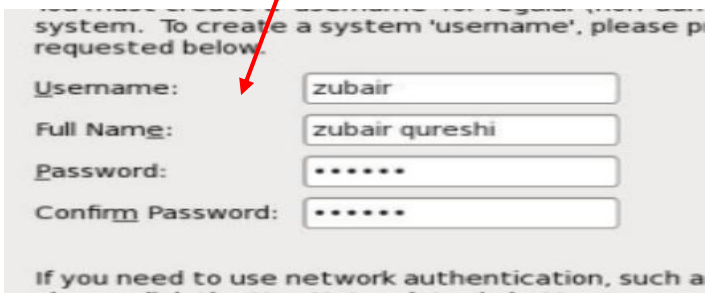

Forward


Zubair_UPG_2019 - VMware Workstation
Welcome
License Information
Create User
Date and Time
Configuration Complete
License Information
CentOS-6 EULA
CentOS-6 comes with no guarantees or warranties of any sorts, either written or implied.
The Distribution is released as GPLv2. Individual packages in the distribution come with their own licences. A copy of the GPLv2 license is included with the distribution media.
Yes, I agree to the License Agreement
No, I do not agree
Back
Forward

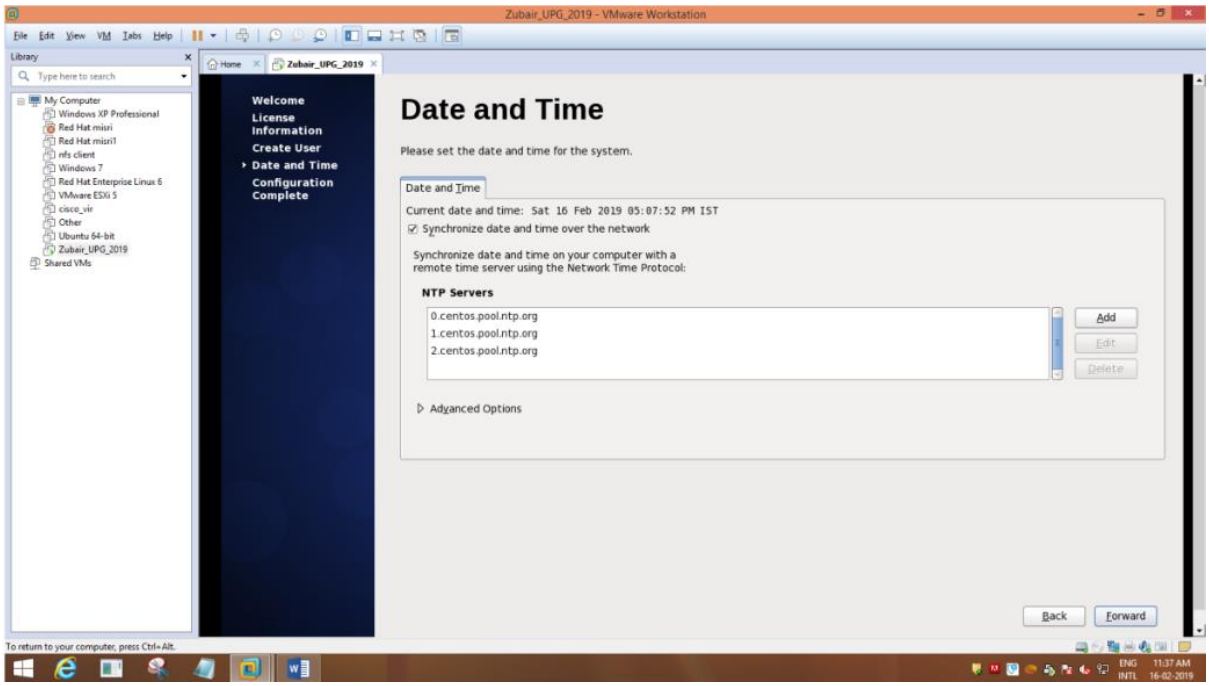

Yes, I agree to the License Agreement
No, I do not agree


Forward

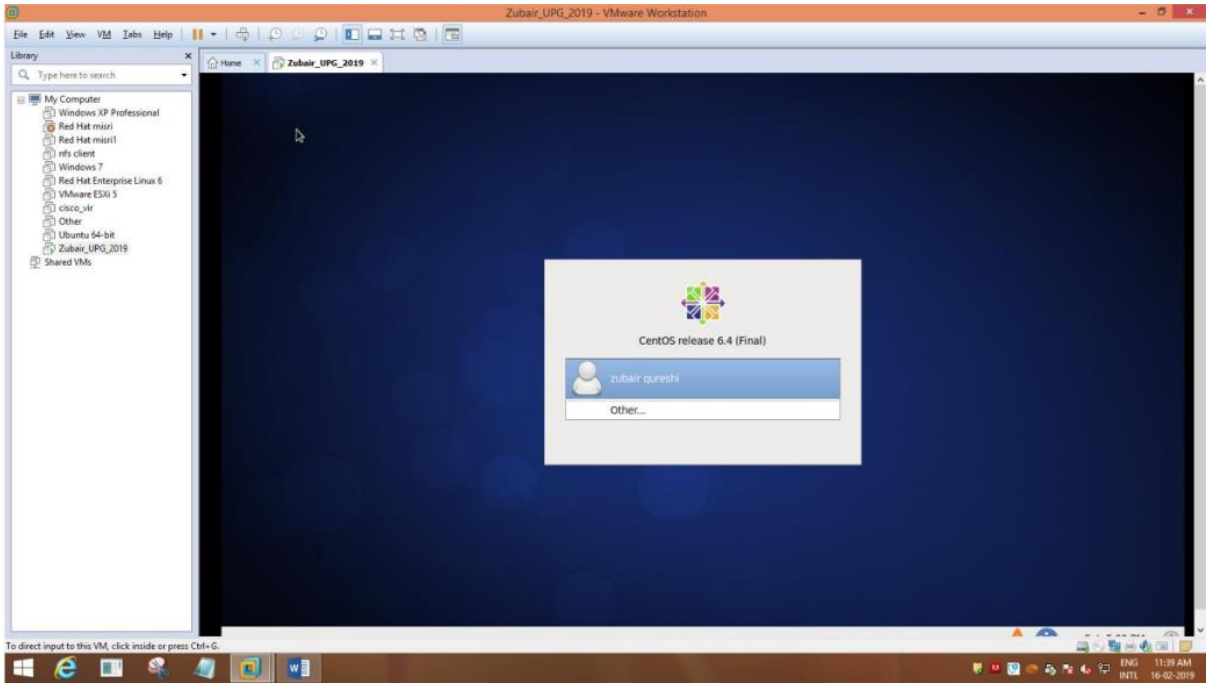




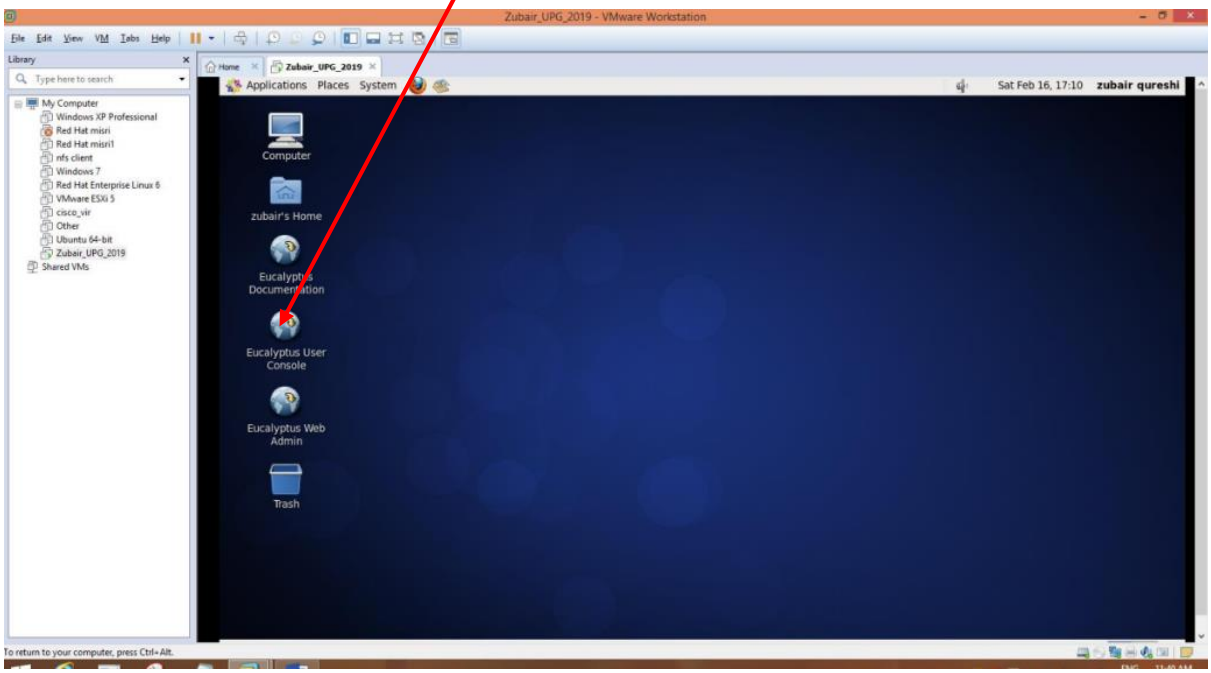
Click **Forward** and **Finish**



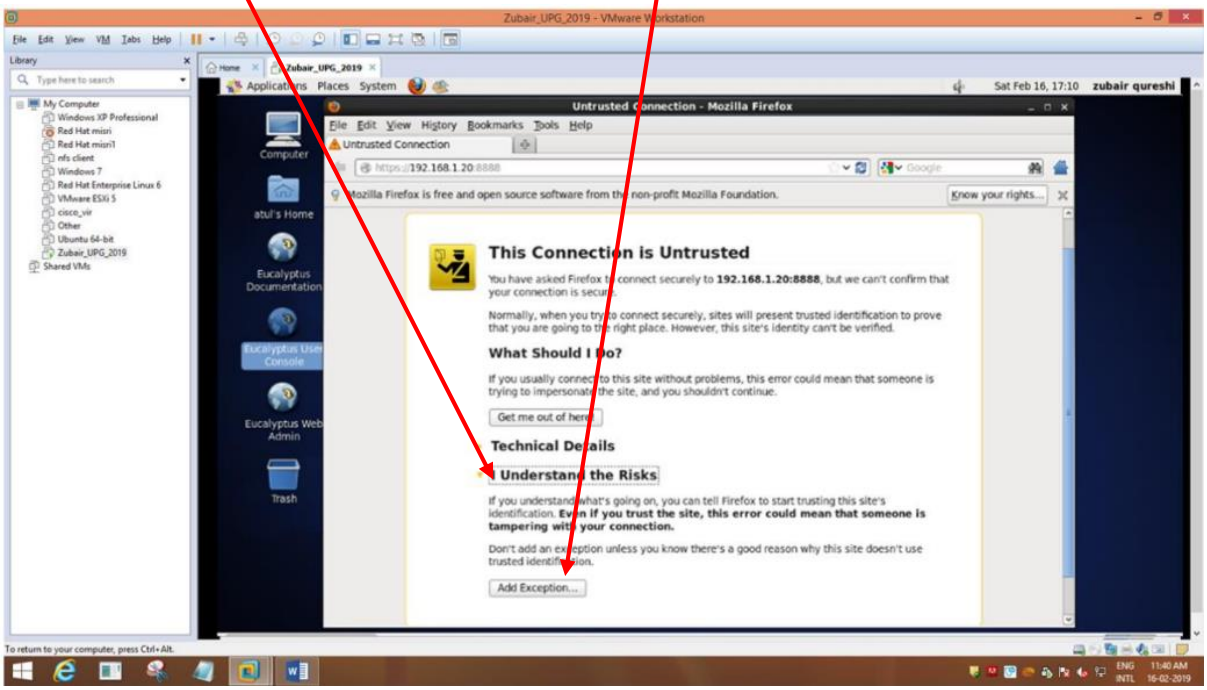
Click on name and enter the password and login



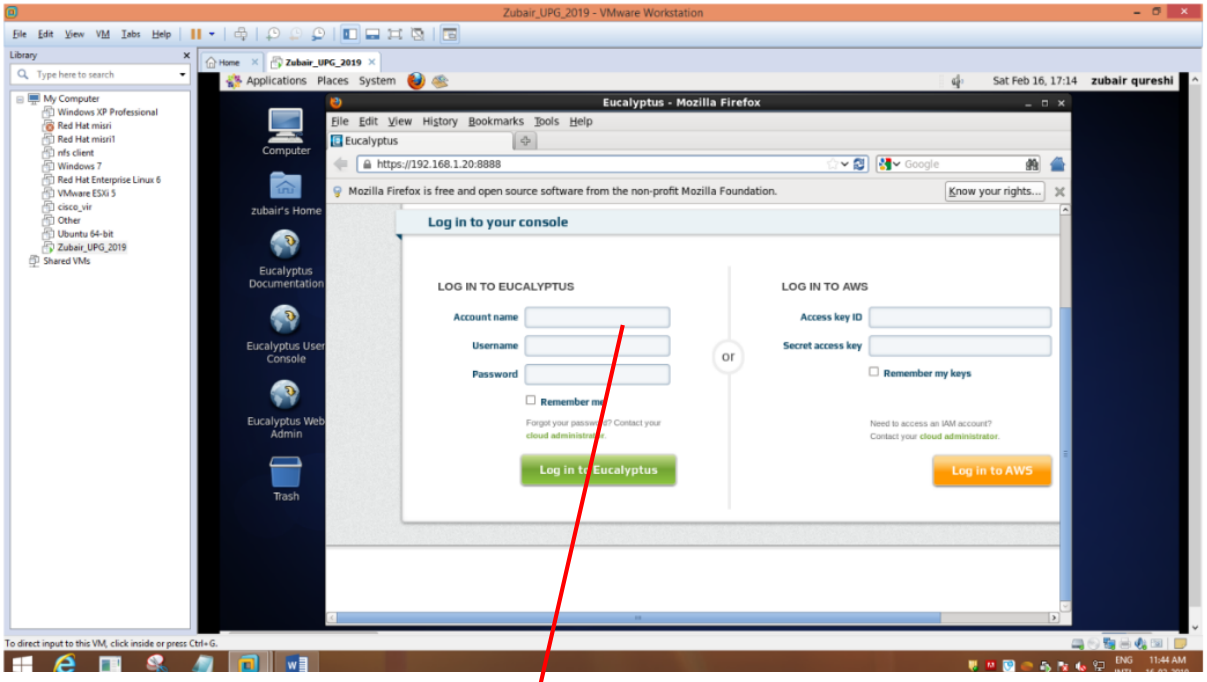
After login it will open this **eucalyptus console**



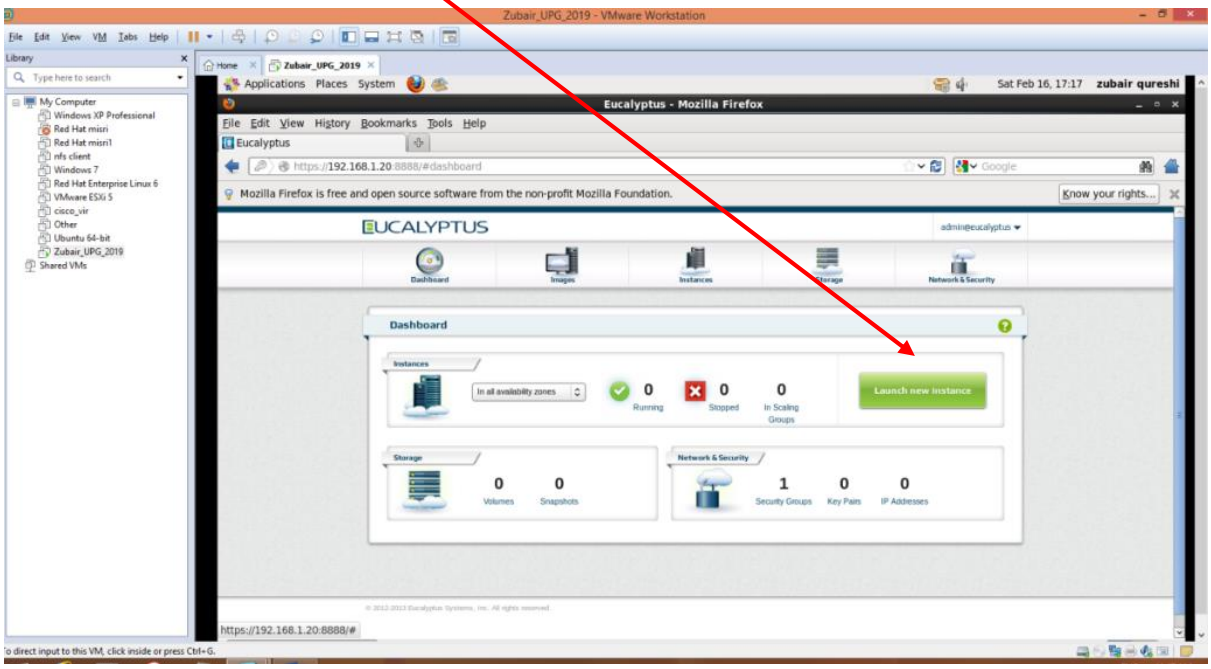
Now First Click on **understand the risk** and then **add exception**

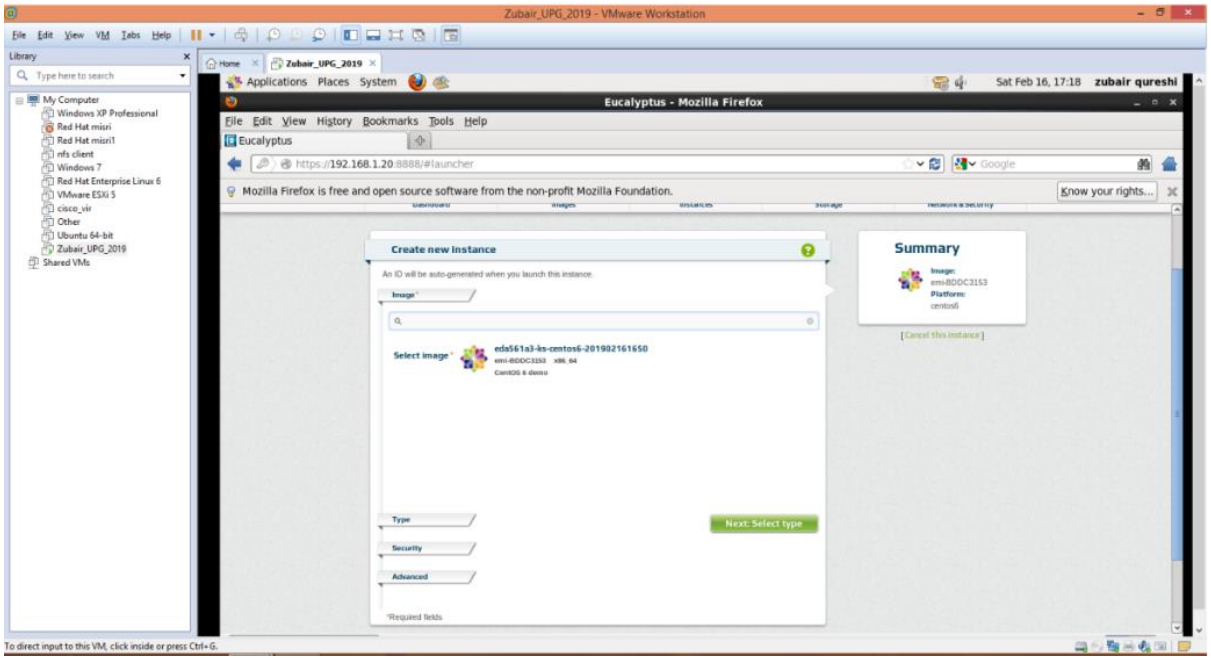


Login to eucalyputus

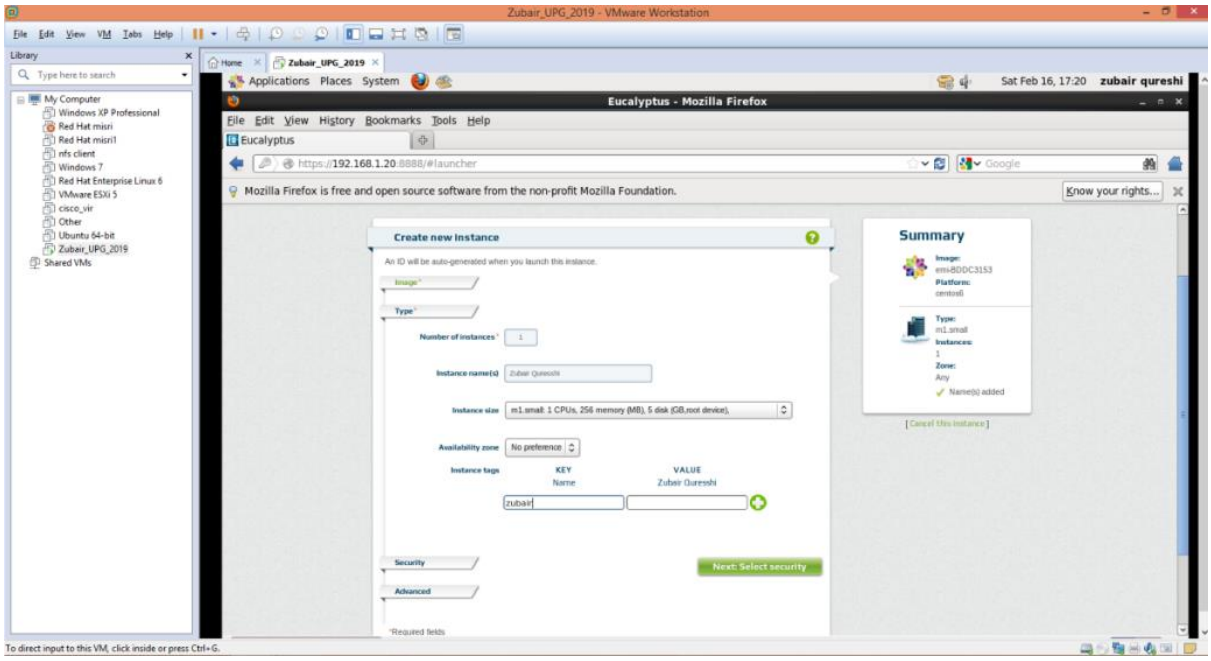


Create instance by clicking **launch instance**

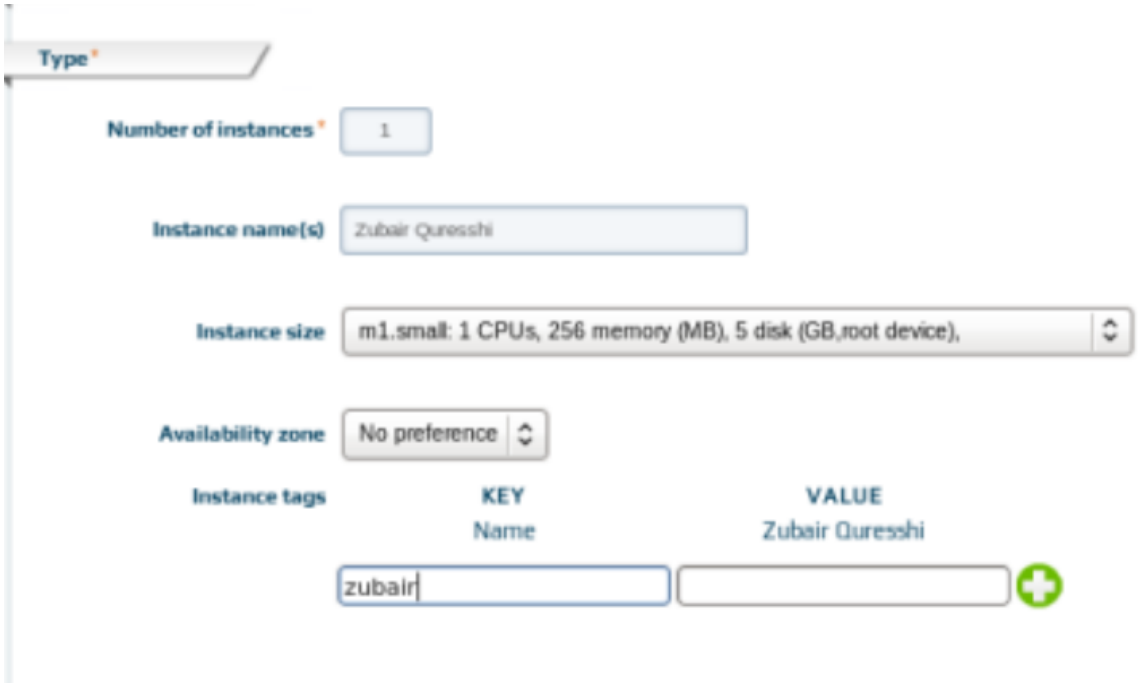




Click on **Type** and give the **instance name** as **Zubair quershi** and **key** name is **Zubair** after that select **security**

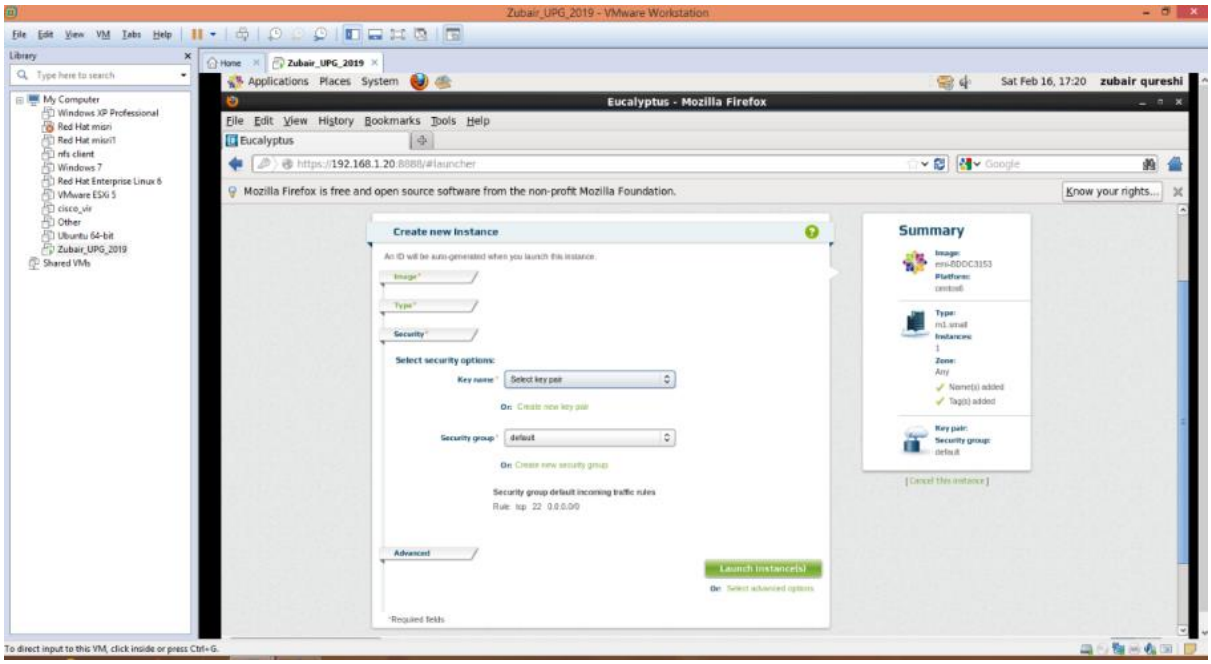


Like this

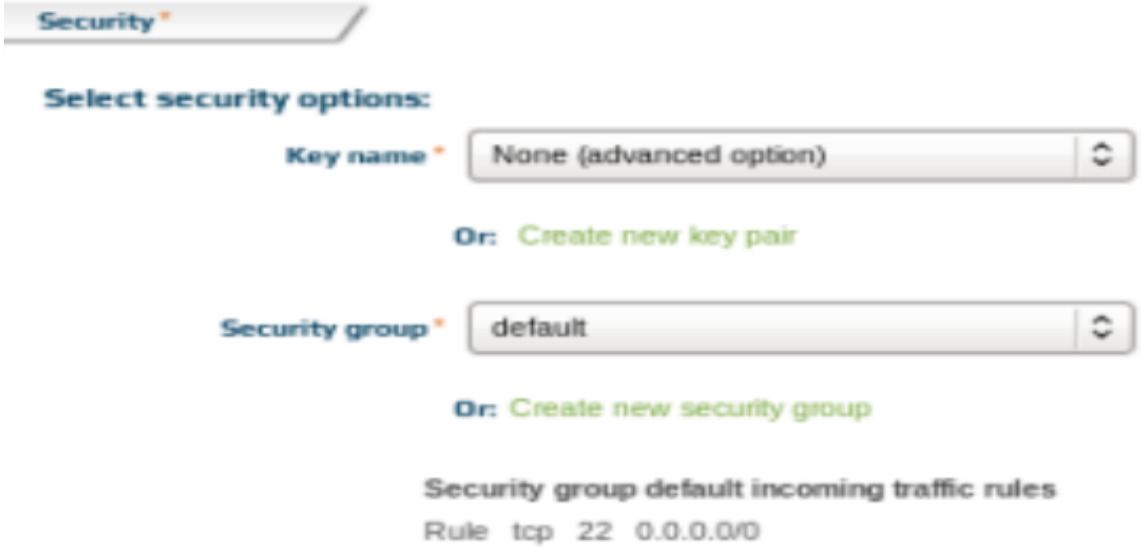


Click on **security** **key name**: none(aadvanced option)

Security group:default

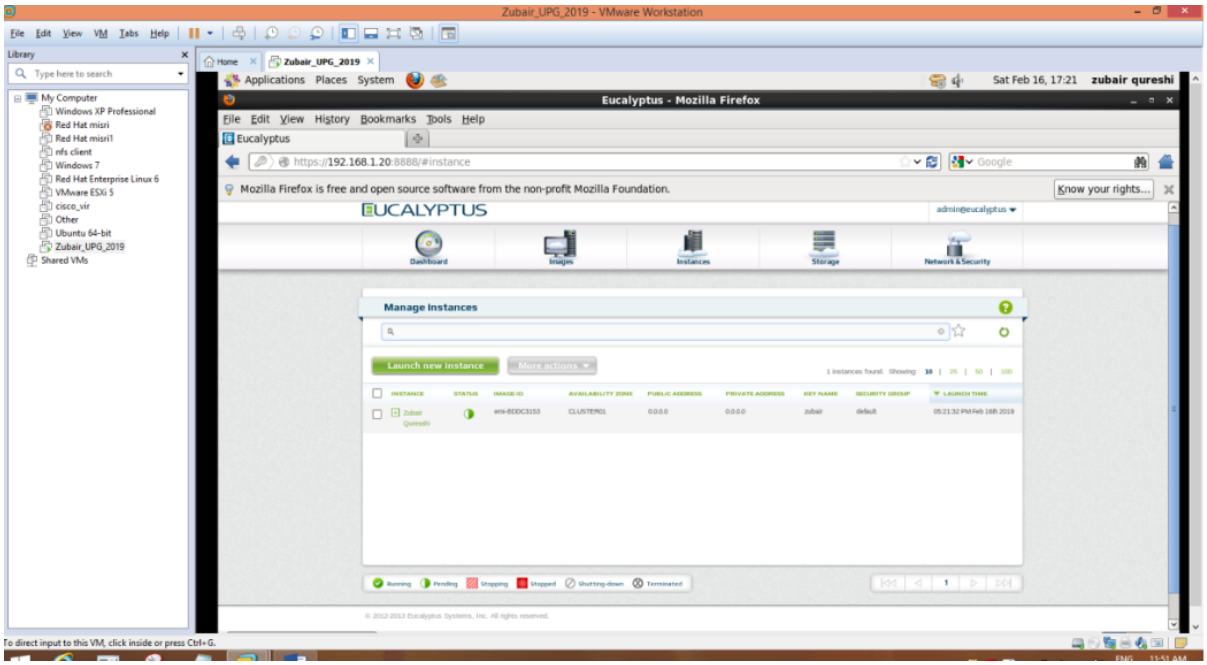


Like this



After this just click on **launch instance**

After clicking on launch instance it will display this window and this is the end of practical

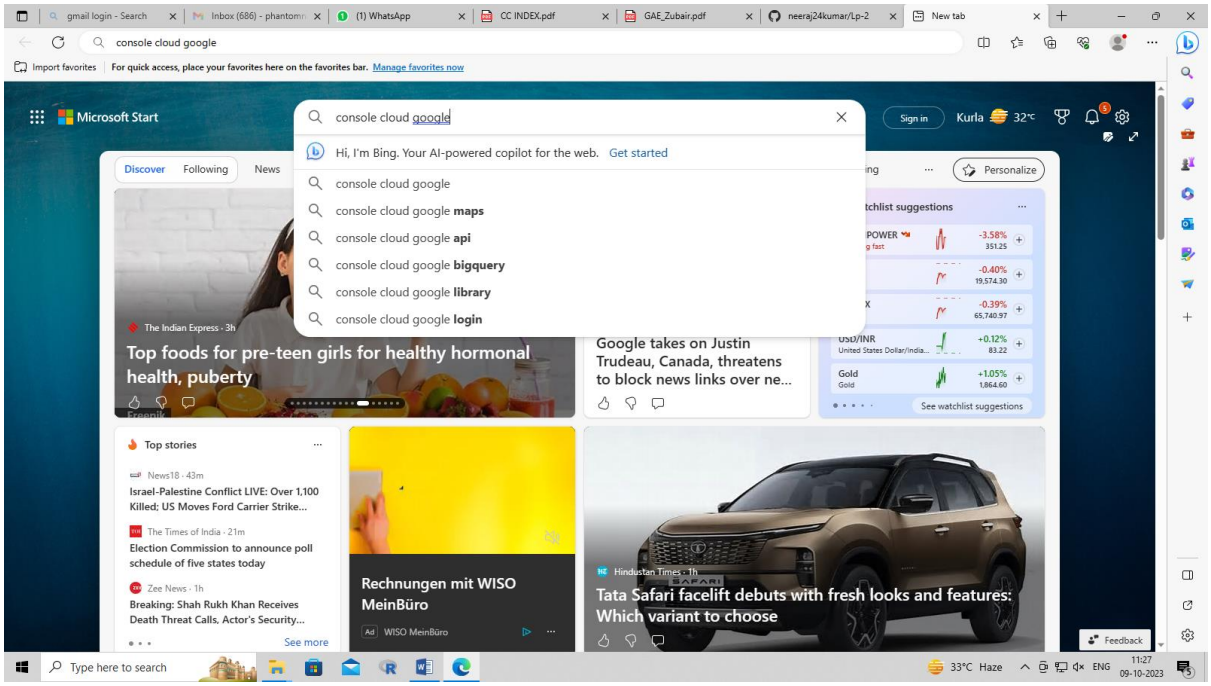


PRACTICAL 5

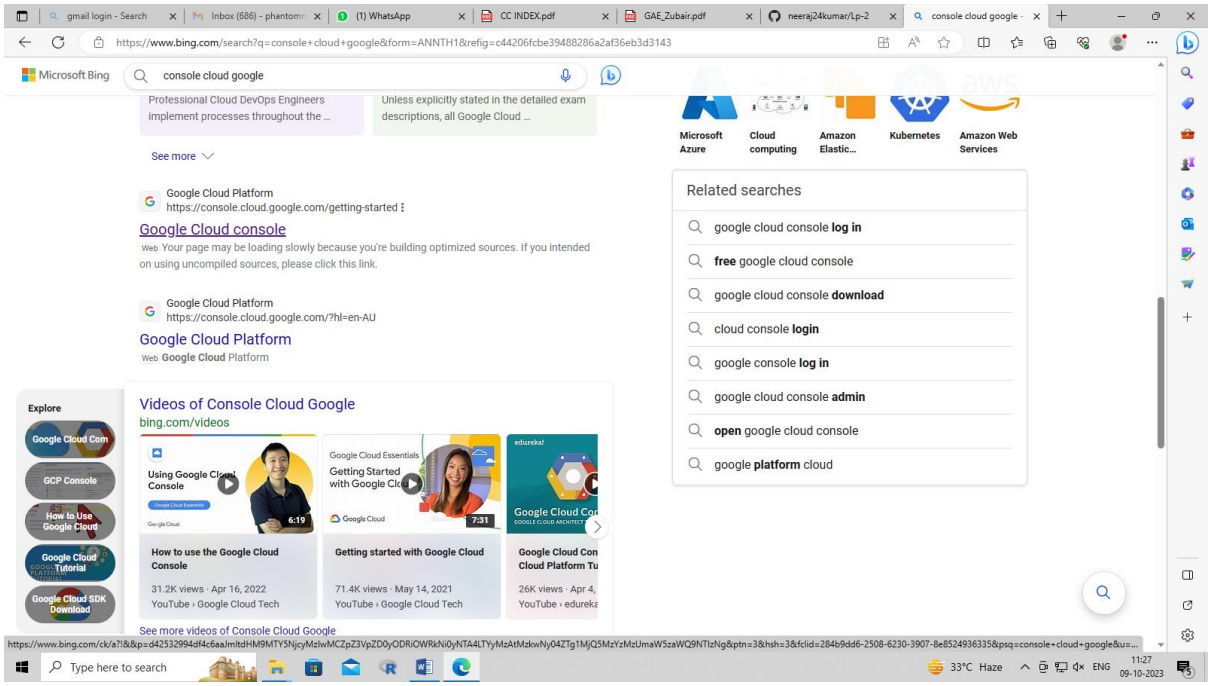
Aim:- Google App Engine

Step 1:

Search on google for “console cloud google”

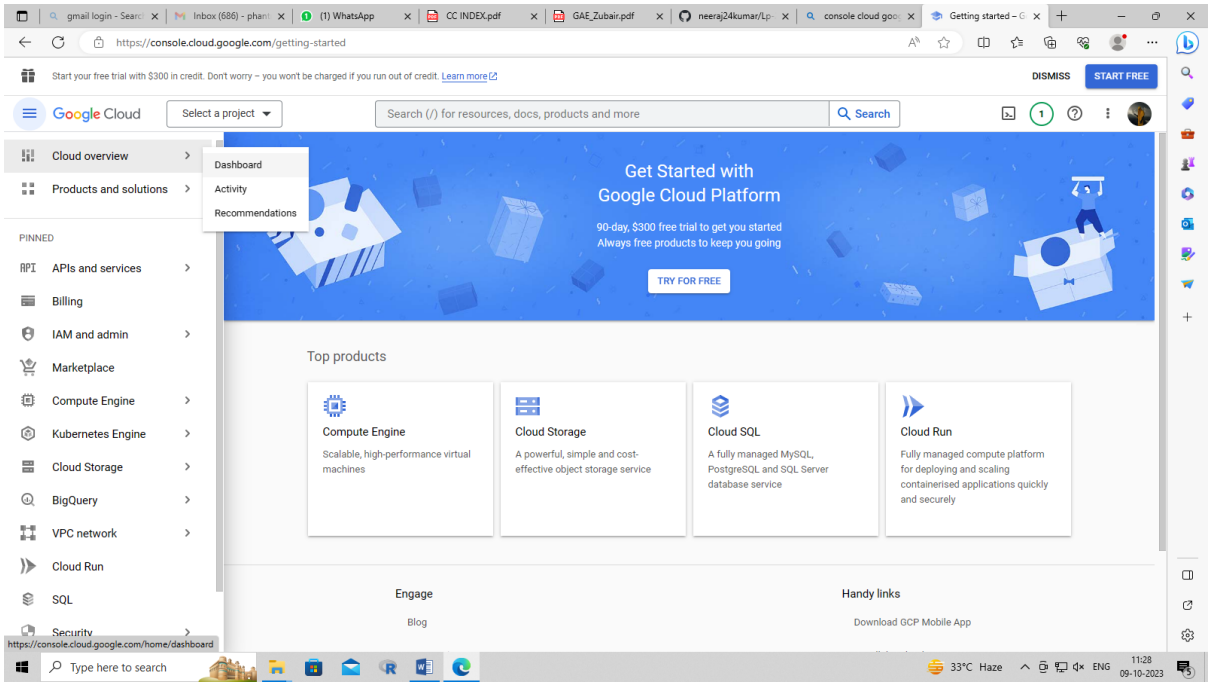


Look for Google cloud or Google cloud console and click on it



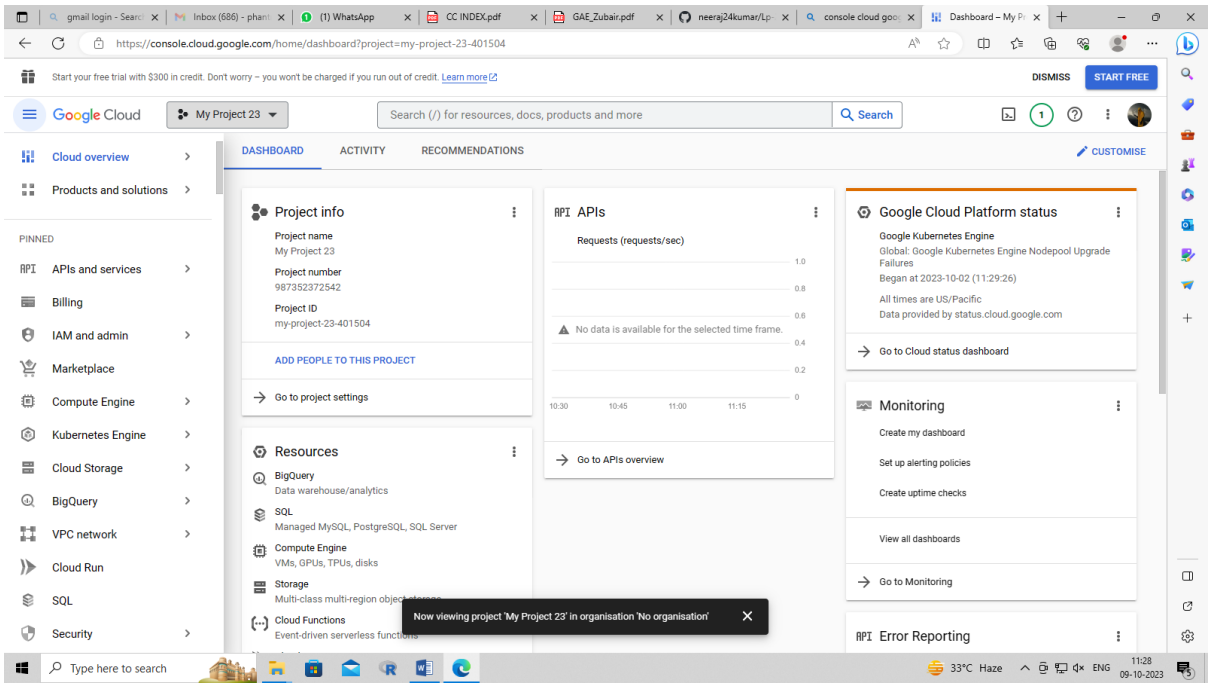
Step 2:

You will see the google cloud homescreen, now in side bar click on cloud overview > dashoard

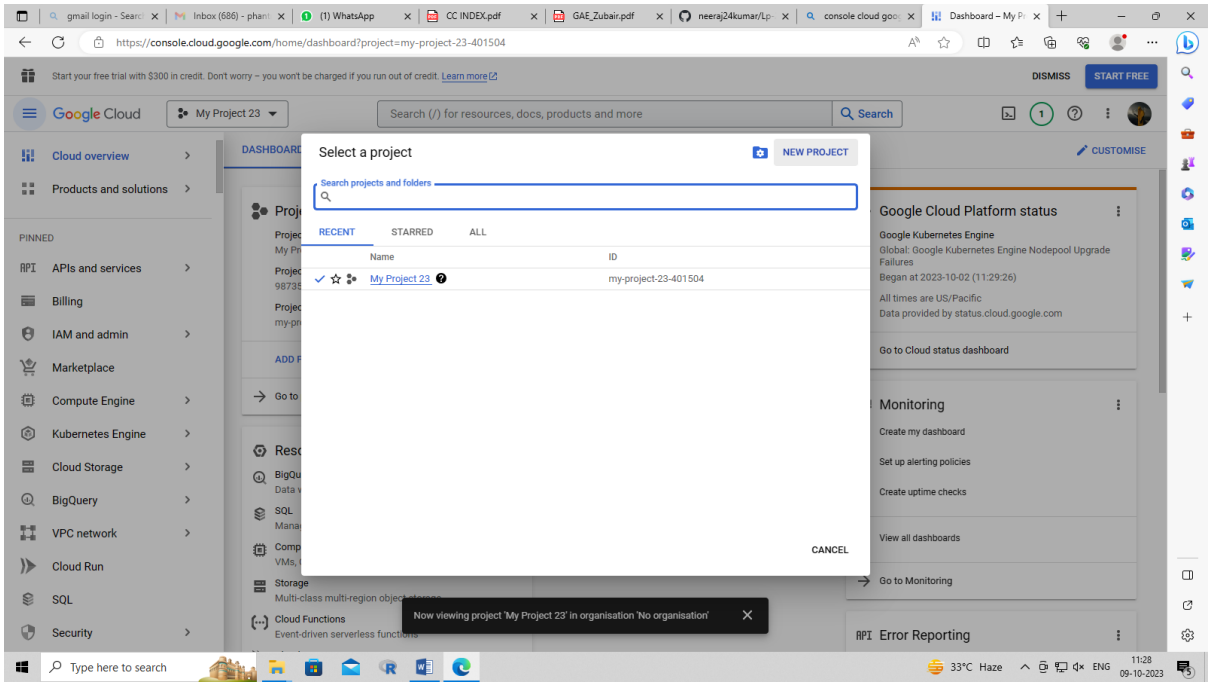


Step 4:

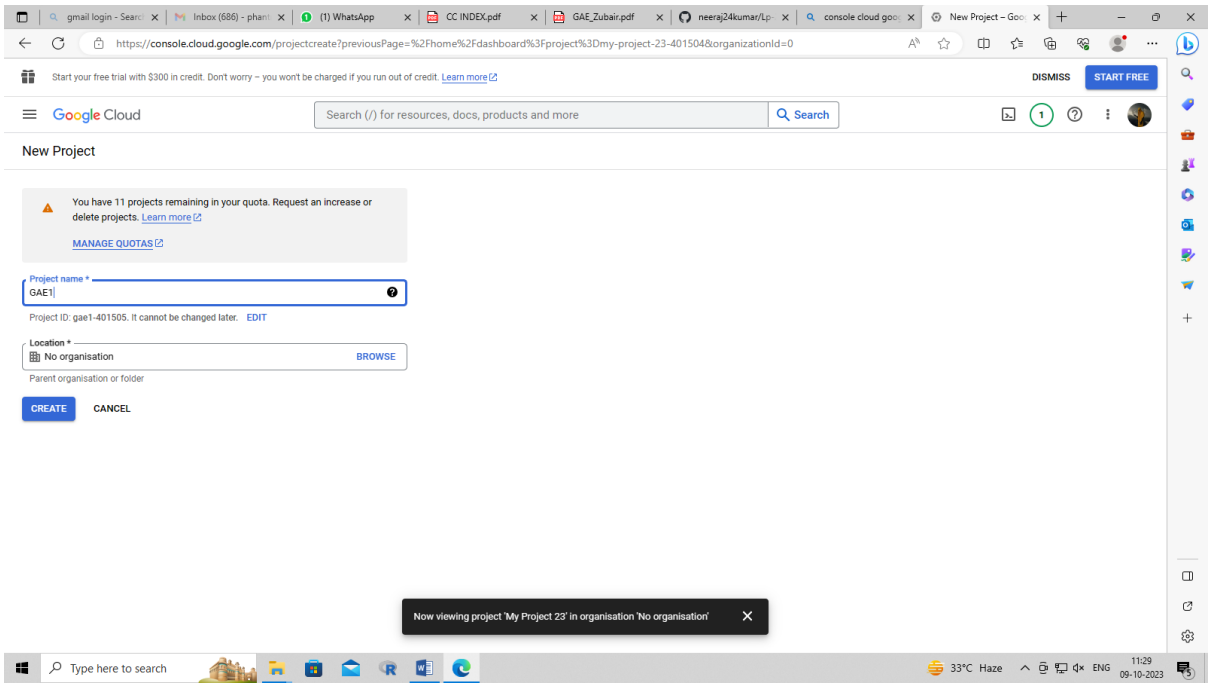
Now you are on dashboard, click on My Project 23



A pop will appear, now create a project by clicking on New Project

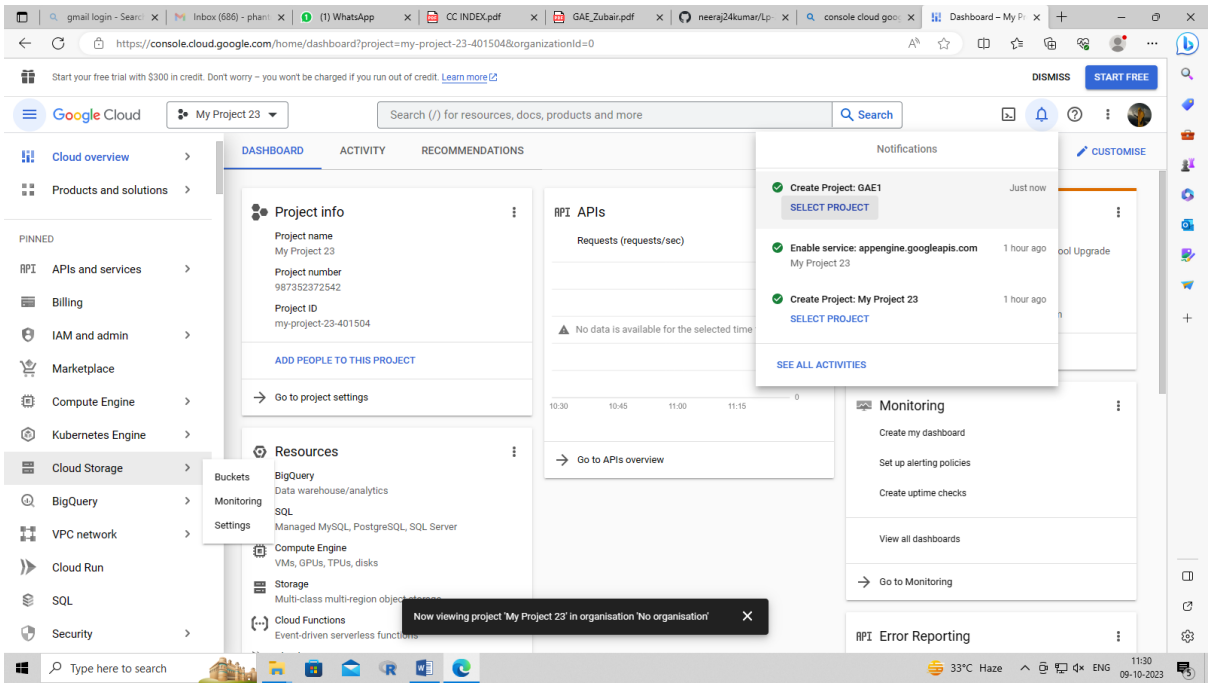


Now name your Project (GAE1), and click on create



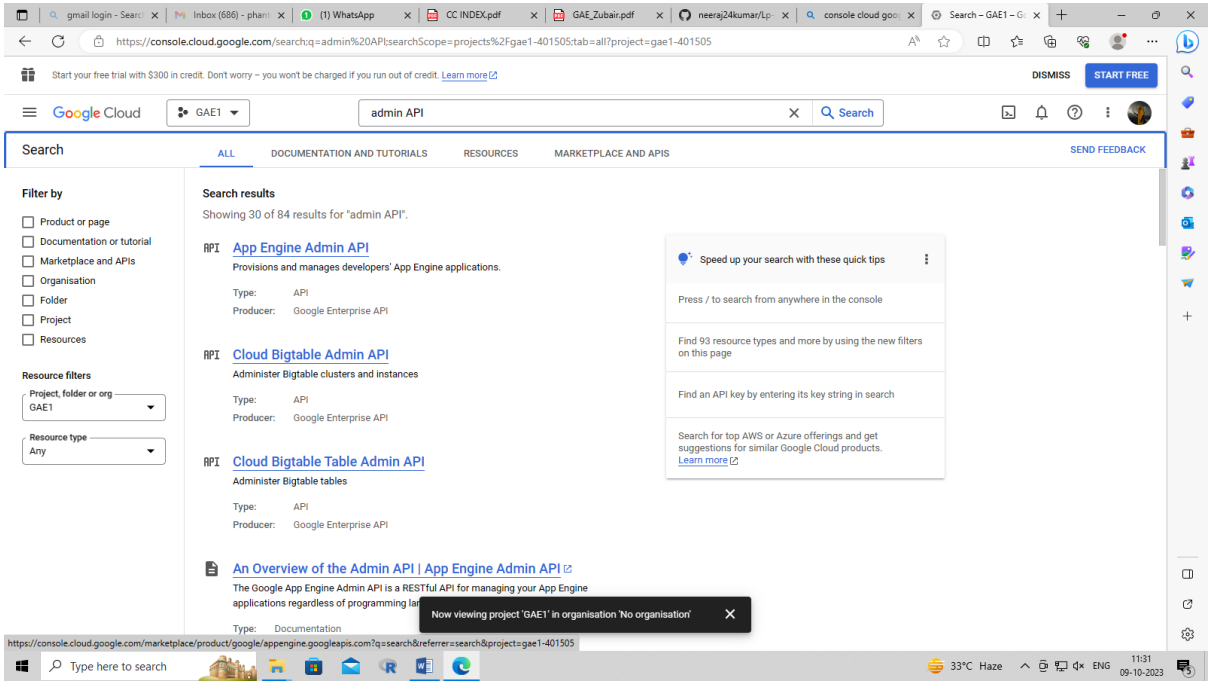
Step 5:

Project is been created now click on select project (GAE1) that you have created

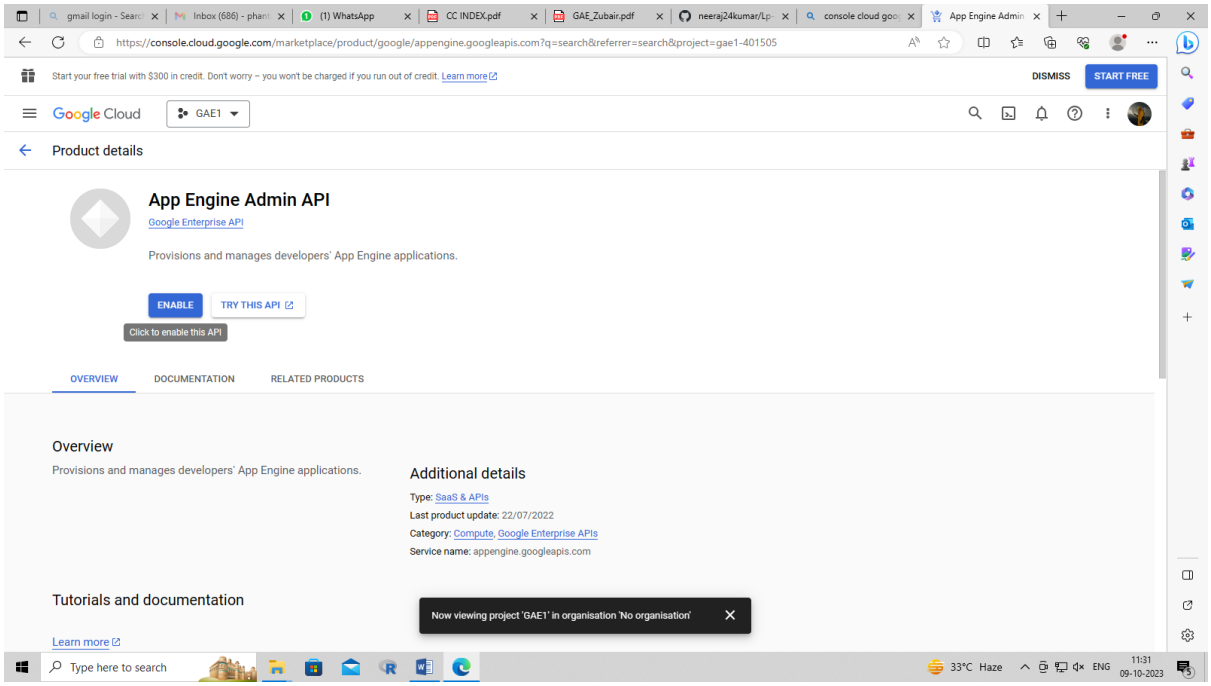


Step 6:

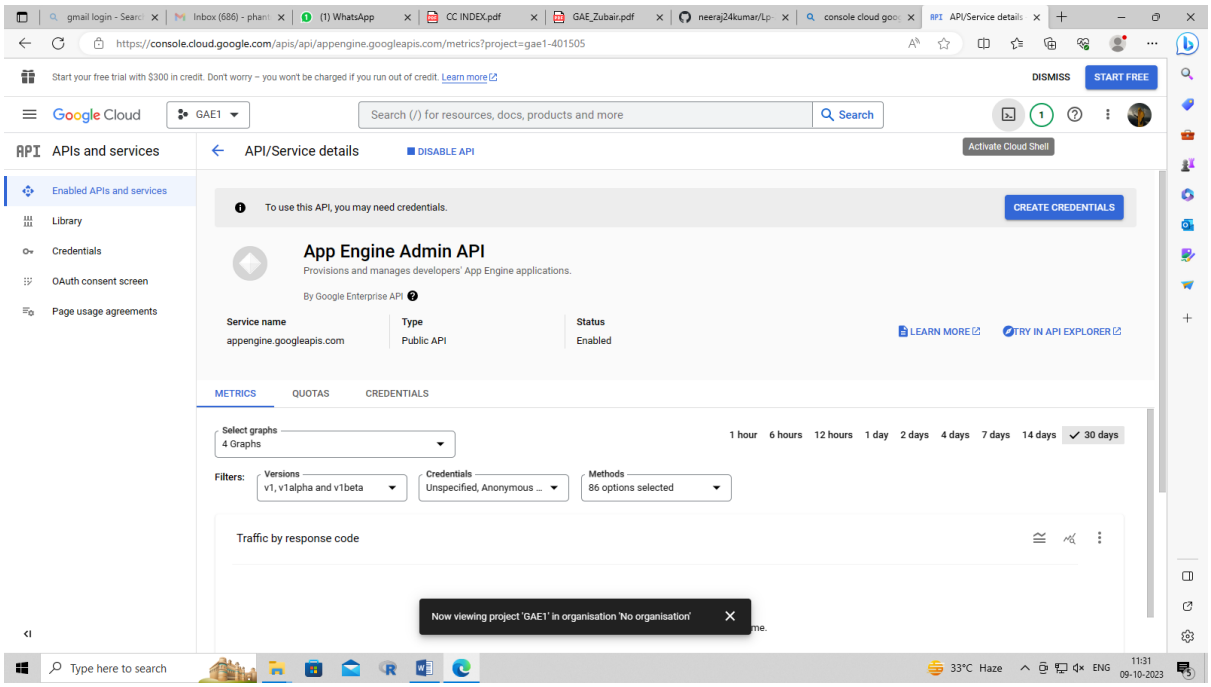
Now in drop down you can see the selected project. Search for “admin API” > click on App Engine Admin API.



A new page will appear named product details > Click on Enable

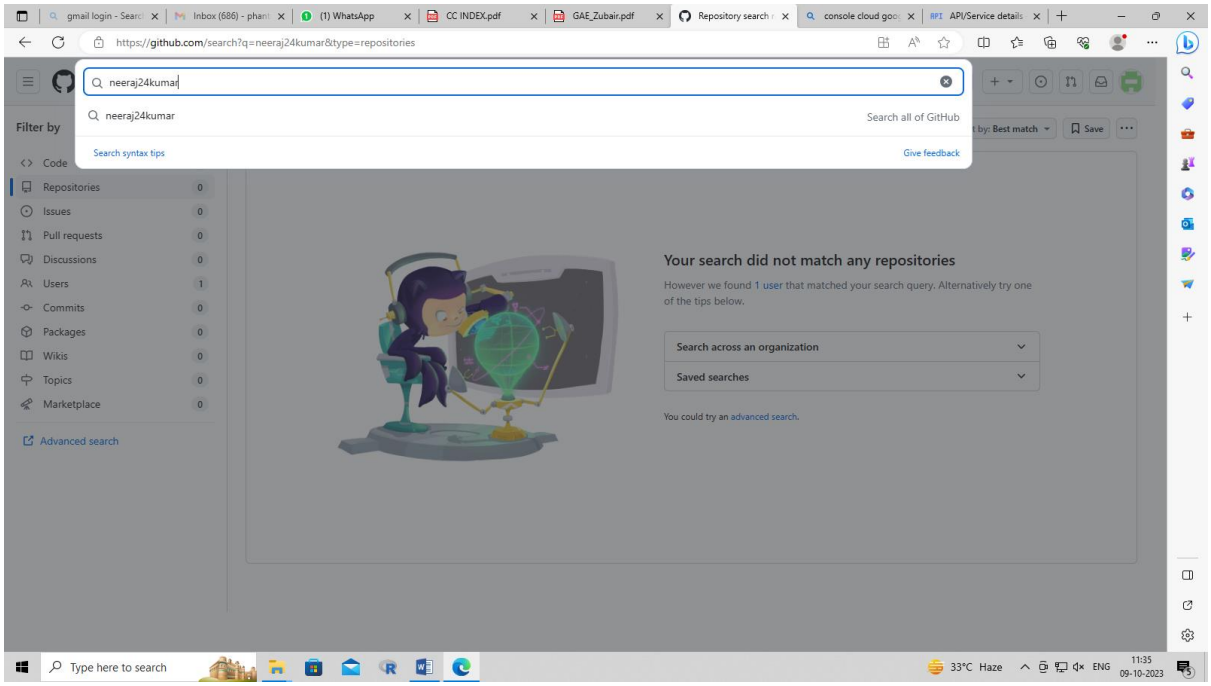


The page will load and the plugin will be enabled

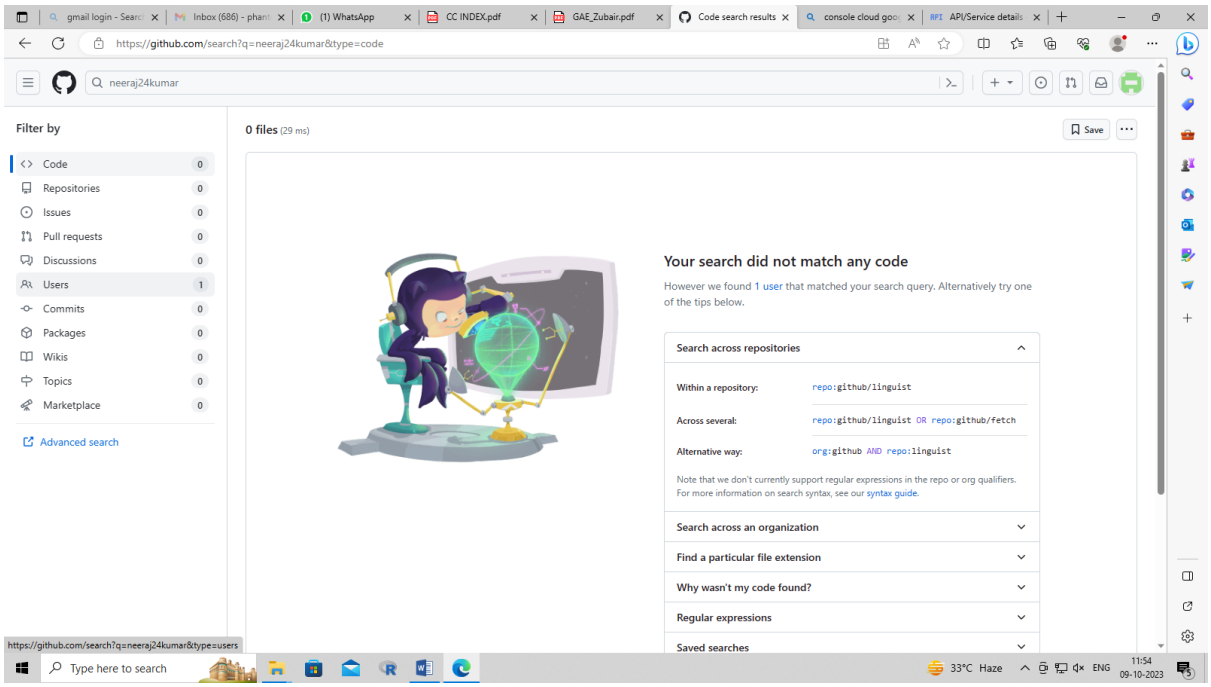


Step 7:

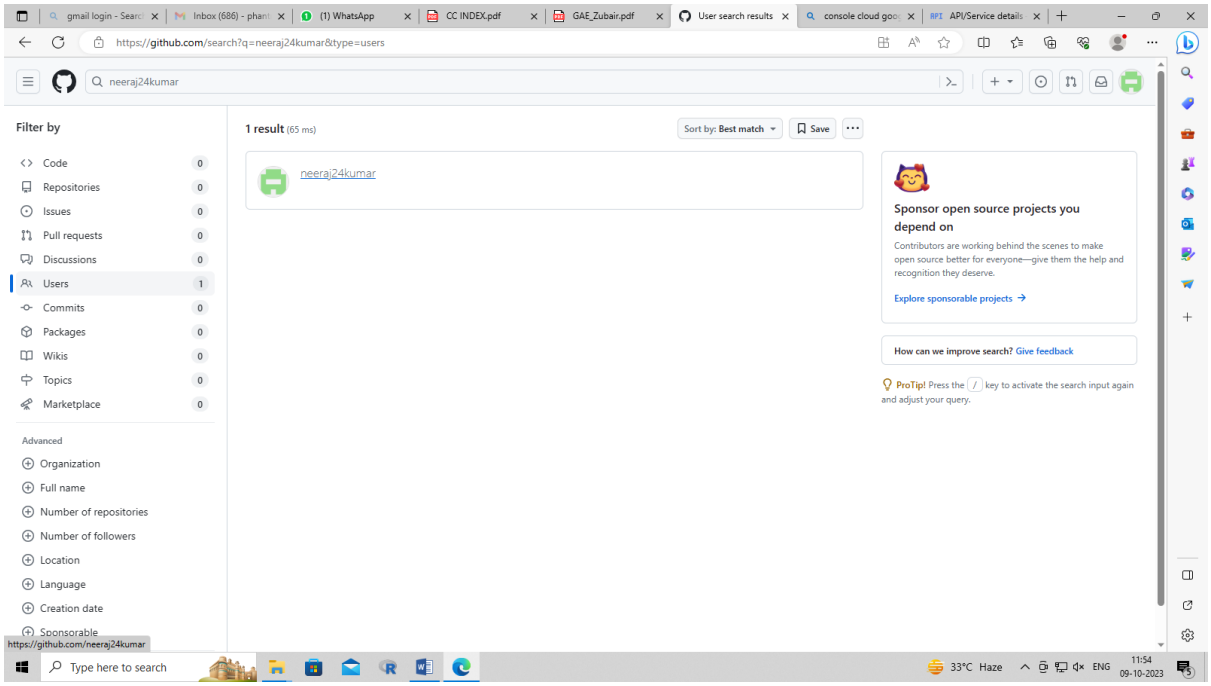
Now login into your Github Account and Search for “neeraj24kumar”



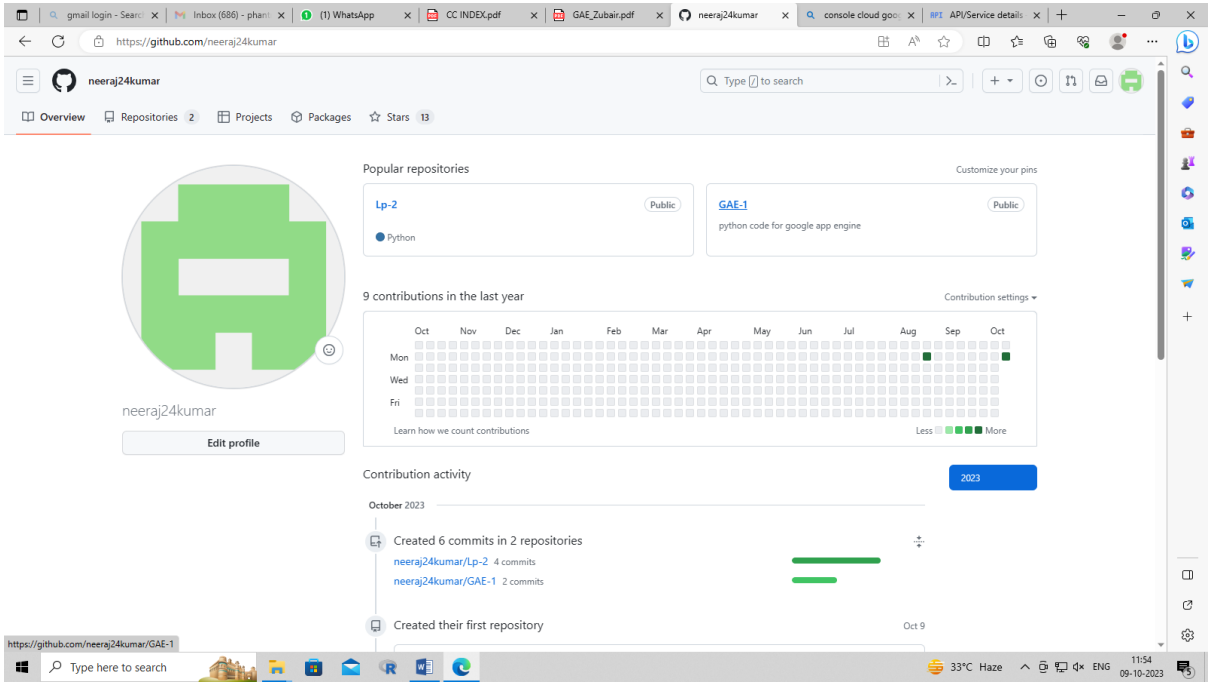
In filter By click on Users



Click on the result (neeraj24kumar)

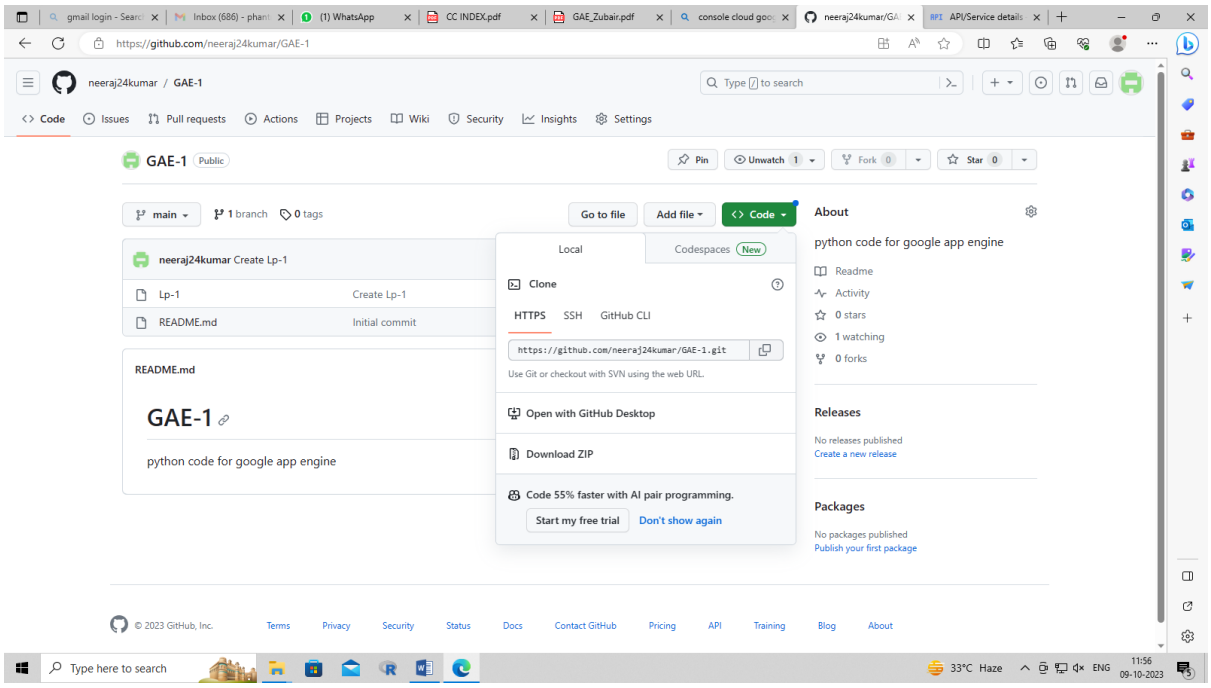


In Repositories look for “GAE-1” and click on it



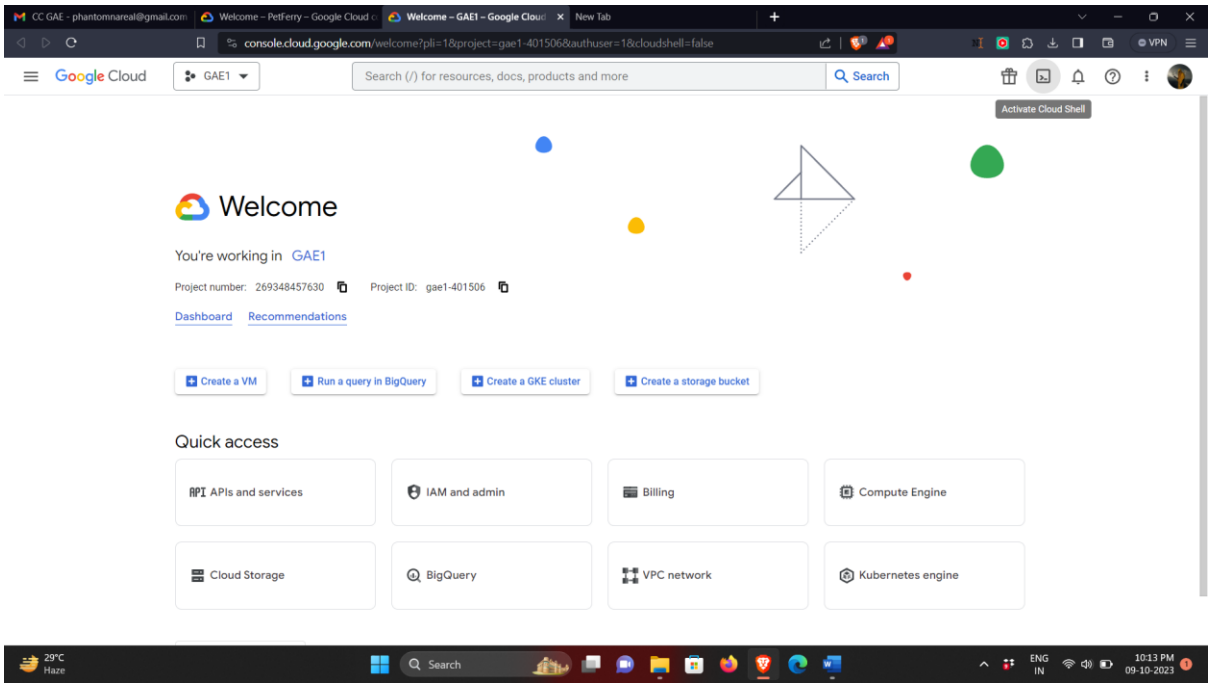
Step 7:

Click on code and copy the HTTPS link (https://github.com/neeraj24kumar/GAE-1.git)

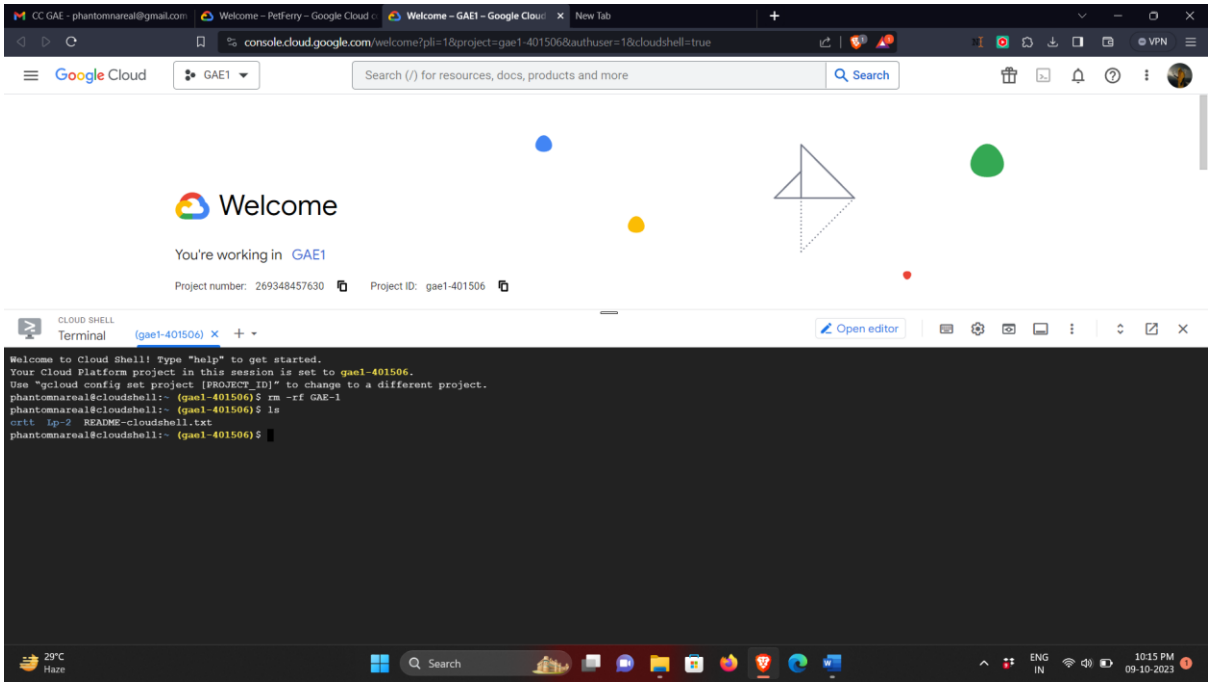


Step 8:

Now go to google cloud and on top right click on "Activate Cloud Shell"



A terminal will appear from bottom



Step 9:

Type the code:- (Bolded text is the code rest all is for explaination)

git clone https://github.com/neeraj24kumar/GAE-1.git (paste the copied Link from github) > Enter

ls (To view all the list of folders in the repository)

cd GAE-1 (to change the directory in order to access the GAE-1 folder files)

ls

You will see the Lp-1.py file that we need to execute

python Lp-1.py (Enter)

hello is seen which means the print statement inside code is been executed successfully

Now to remove all the above read folder and file do the following steps:-

cd (It will take you to the root folder)

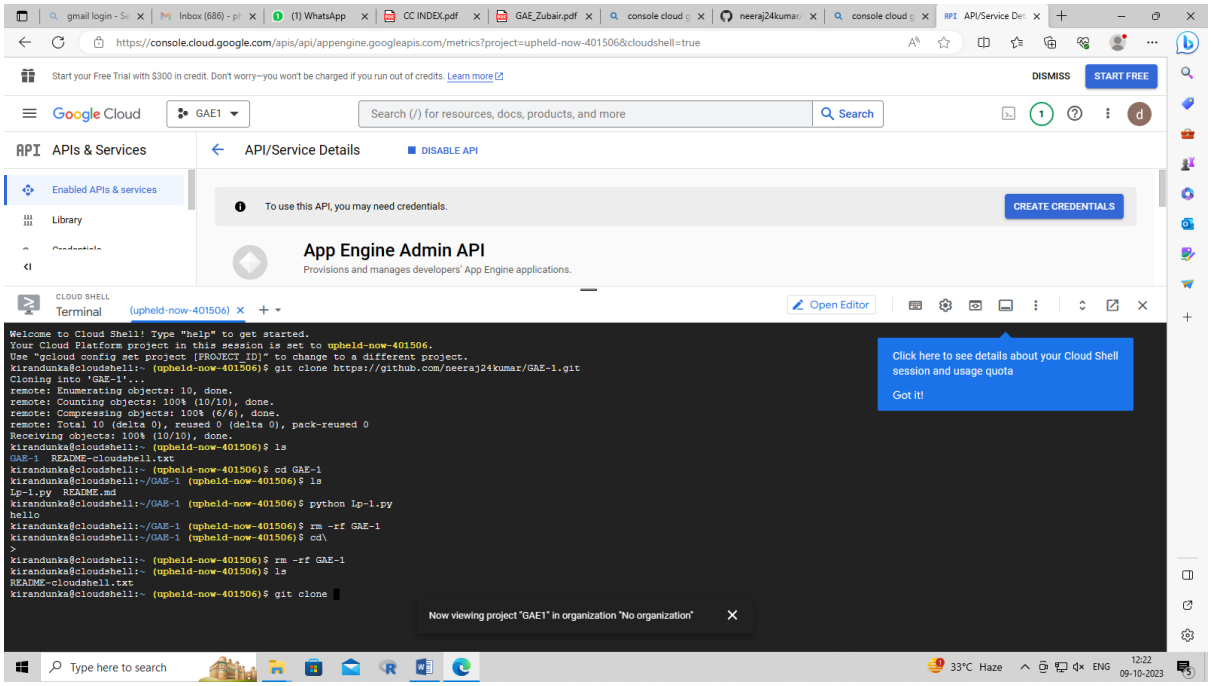
Enter

rm -rf GAE-1 (Remove the folder)

ls

Now you will not see any files in it

Output:-


https://console.cloud.google.com/apis/api/appengine.googleapis.com/metrics?project=upheld-now-401506&cloudshell=true
Start your Free Trial with $300 in credit. Don't worry—you won't be charged if you run out of credits. Learn more
DISMISS
START FREE
Google Cloud
GAE1
Search (/) for resources, docs, products, and more
Search
APIs & Services
API/Service Details
DISABLE API
Enabled APIs & services
Library
To use this API, you may need credentials.
CREATE CREDENTIALS
App Engine Admin API
Provisions and manages developers' App Engine applications.
CLOUD SHELL
Terminal
(upheld-now-401506)
Open Editor
Welcome to Cloud Shell! Type "help" to get started.
Your Cloud Platform project in this session is set to upheld-now-401506.
Use "gcloud config set project [PROJECT_ID]" to change to a different project.
kirandunka@cloudshell:~ (upheld-now-401506)$ git clone https://github.com/neeraj24kumar/GAE-1.git
Cloning into 'GAE-1'...
remote: Enumerating objects: 10, done.
remote: Counting objects: 100% (10/10), done.
remote: Compressing objects: 100% (6/6), done.
remote: Total 10 (delta 0), reused 0 (delta 0), pack-reused 0
Receiving objects: 100% (10/10), done.
kirandunka@cloudshell:~ (upheld-now-401506)$ ls
GAE-1 README-cloudshell.txt
kirandunka@cloudshell:~ (upheld-now-401506)$ cd GAE-1
kirandunka@cloudshell:~/GAE-1 (upheld-now-401506)$ ls
Lp-1.py README.md
kirandunka@cloudshell:~/GAE-1 (upheld-now-401506)$ python Lp-1.py
hello
kirandunka@cloudshell:~/GAE-1 (upheld-now-401506)$ rm -rf GAE-1
kirandunka@cloudshell:~/GAE-1 (upheld-now-401506)$ cd\
>
kirandunka@cloudshell:~ (upheld-now-401506)$ rm -rf GAE-1
kirandunka@cloudshell:~ (upheld-now-401506)$ ls
README-cloudshell.txt
kirandunka@cloudshell:~ (upheld-now-401506)$ git clone
Click here to see details about your Cloud Shell session and usage quota
Got it!
Now viewing project "GAE1" in organization "No organization"
Type here to search
33°C Haze
ENG
12:22
09-10-2023