DevOps Project

You are hired as a DevOps engineer for Analytics Pvt Ltd. This company is a product based organization which uses Docker for their containerization needs within the company. The final product received a lot of traction in the first few weeks of launch. Now with the increasing demand, the organization needs to have a platform for automating deployment, scaling, and operations of application containers across clusters of hosts, As a DevOps engineer, you need implement a DevOps life cycle, such that all the requirements are implemented without any change in the Docker containers in the testing environment.

Up until now, this organization used to follow a monolithic architecture with just 2 developers. The product is present on

https://github.com/hshar/website.git

Following are the specifications of life-cycle:

1. Git workflow should be implemented. Since the company follows monolithic architecture of Development you need to take care of version control. The release should happen only on 25th of every month.

2. Code build should be triggered once the commits are made in the master Branch.

3. The code should be containerized with the help of the Docker file, The Dockerfile should be built every time if there is a push to Git-Hub. Create a custom Docker image using a Dockerfile.

4. As per the requirement in the production server, you need to use the Kubernetes cluster and the containerized code from Docker hub should be deployed with 2 replicas. Create a NodePort service and configure the same for port 30008.

5. Create a Jenkins pipeline script to accomplish the above task.

6. For configuration management of the infrastructure, you need to deploy the configuration on the servers to install necessary software and configurations.

7. Using Terraform accomplish the task of infrastructure creation in the AWS cloud provider.

Architectural Advice

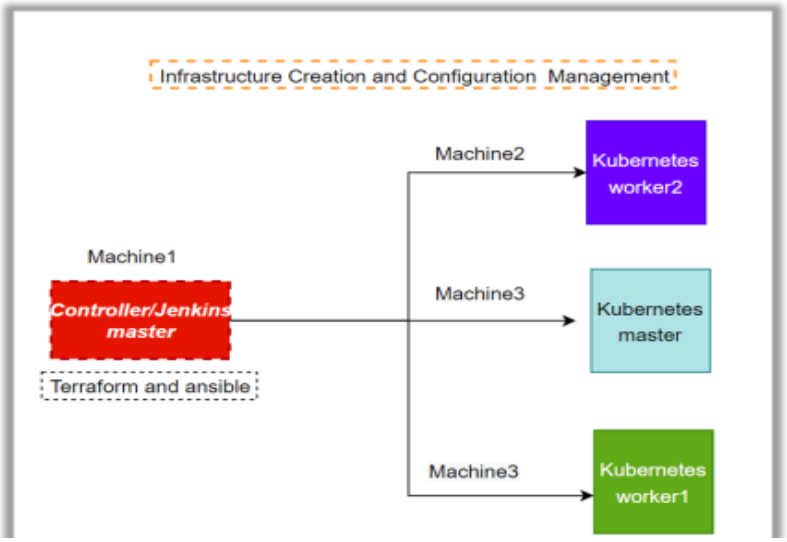
Software's to be installed on the respective machines using configuration management.

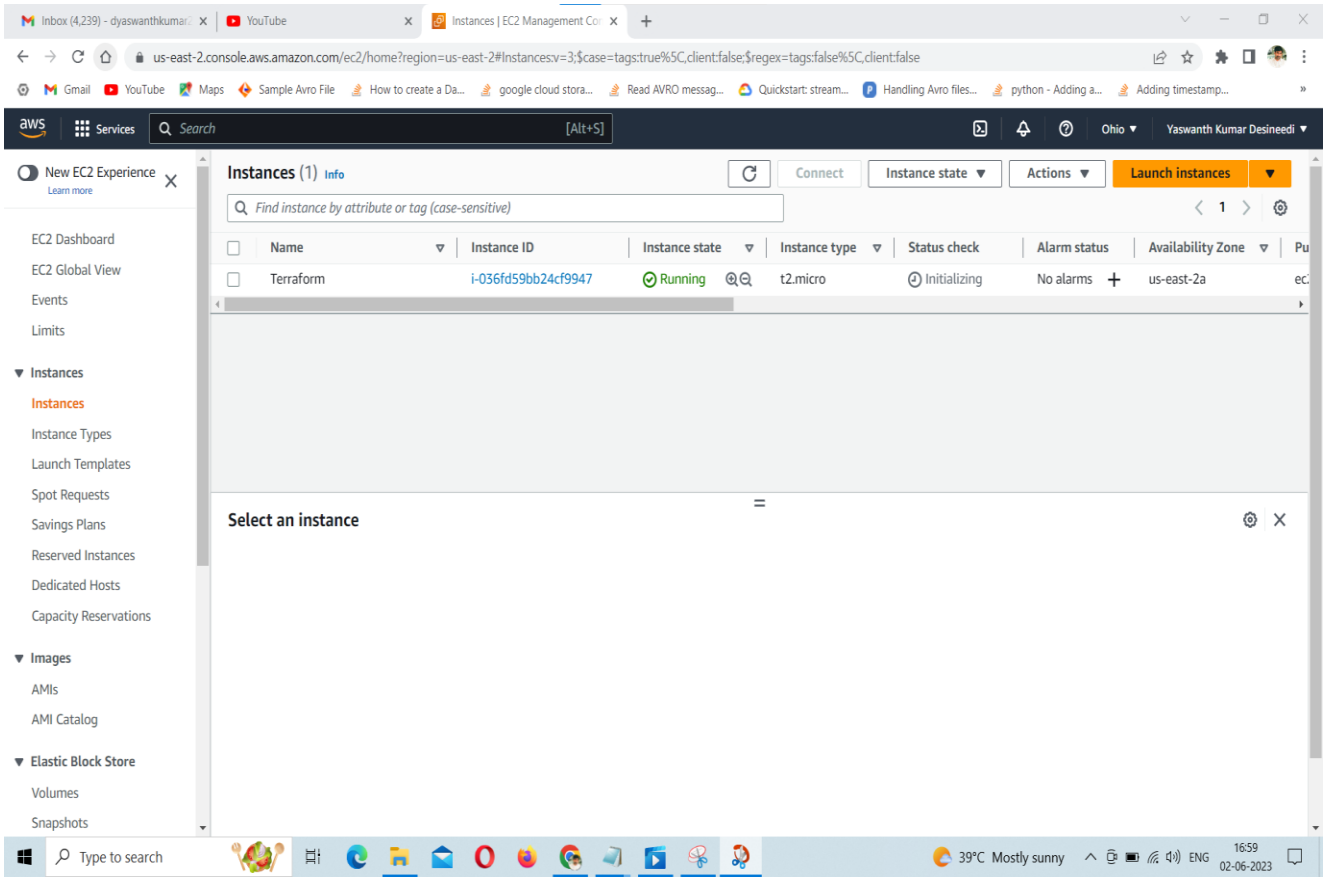
Worker1: Jenkins, Java.

Worker2: Docker, Kubernetes.

Worker3: Java, Docker, Kubernetes

Worker4: Docker, Kubernetes.

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us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
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AMIs
AMI Catalog
Elastic Block Store
Volumes
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Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
1
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Terraform
i-036fd59bb24cf9947
Running
t2.micro
Initializing
No alarms
us-east-2a
Select an instance
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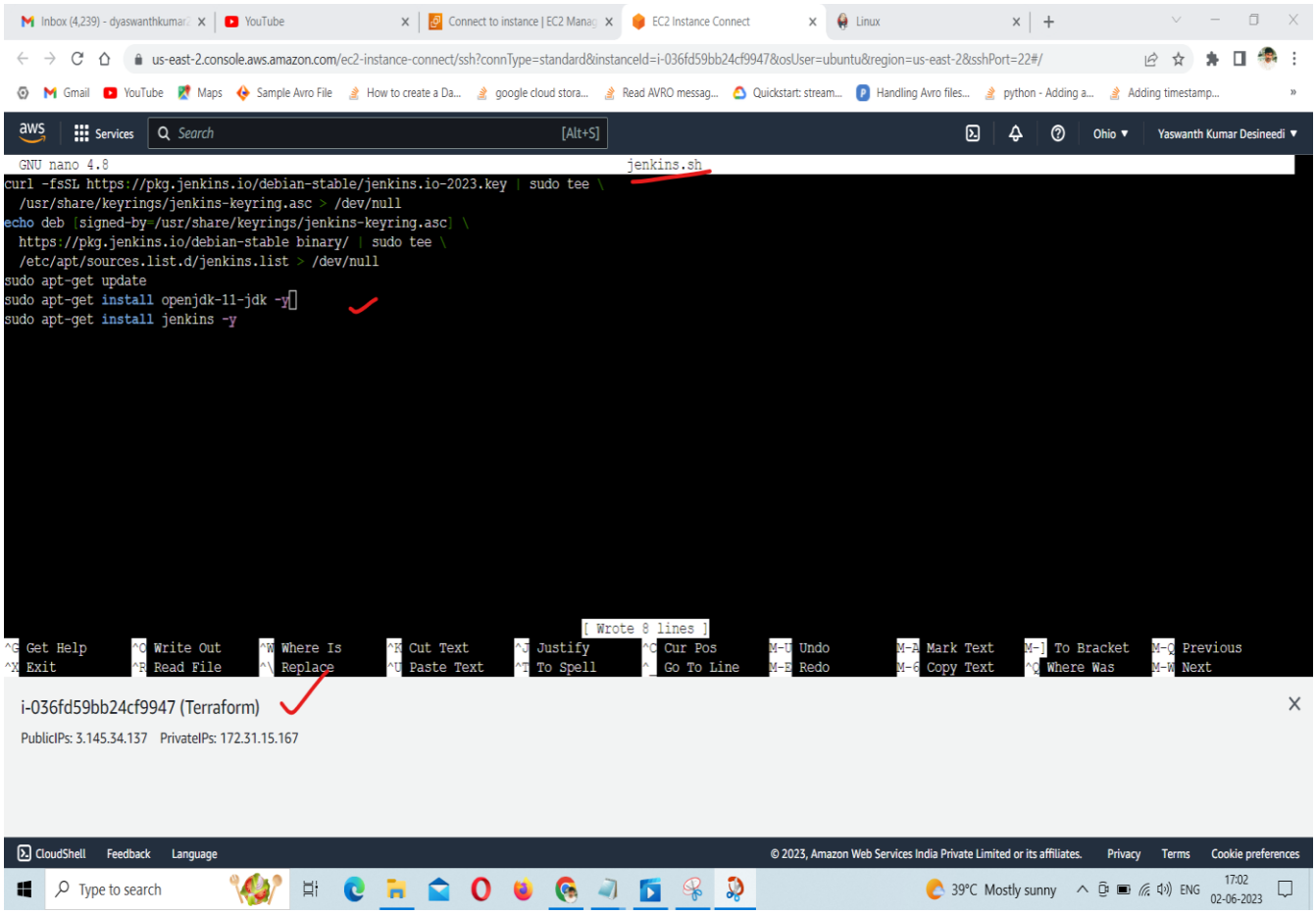
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GNU nano 4.8
jenkins.sh
curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee \
/usr/share/keyrings/jenkins-keyring.asc > /dev/null
echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
/etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update
sudo apt-get install openjdk-11-jdk -y
sudo apt-get install jenkins -y
[Wrote 8 lines]
^G Get Help
^O Write Out
^W Where Is
^K Cut Text
^J Justify
^C Cur Pos
M-U Undo
M-A Mark Text
M-] To Bracket
M-Q Previous
^X Exit
^R Read File
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M-6 Copy Text
^Q Where Was
M-W Next
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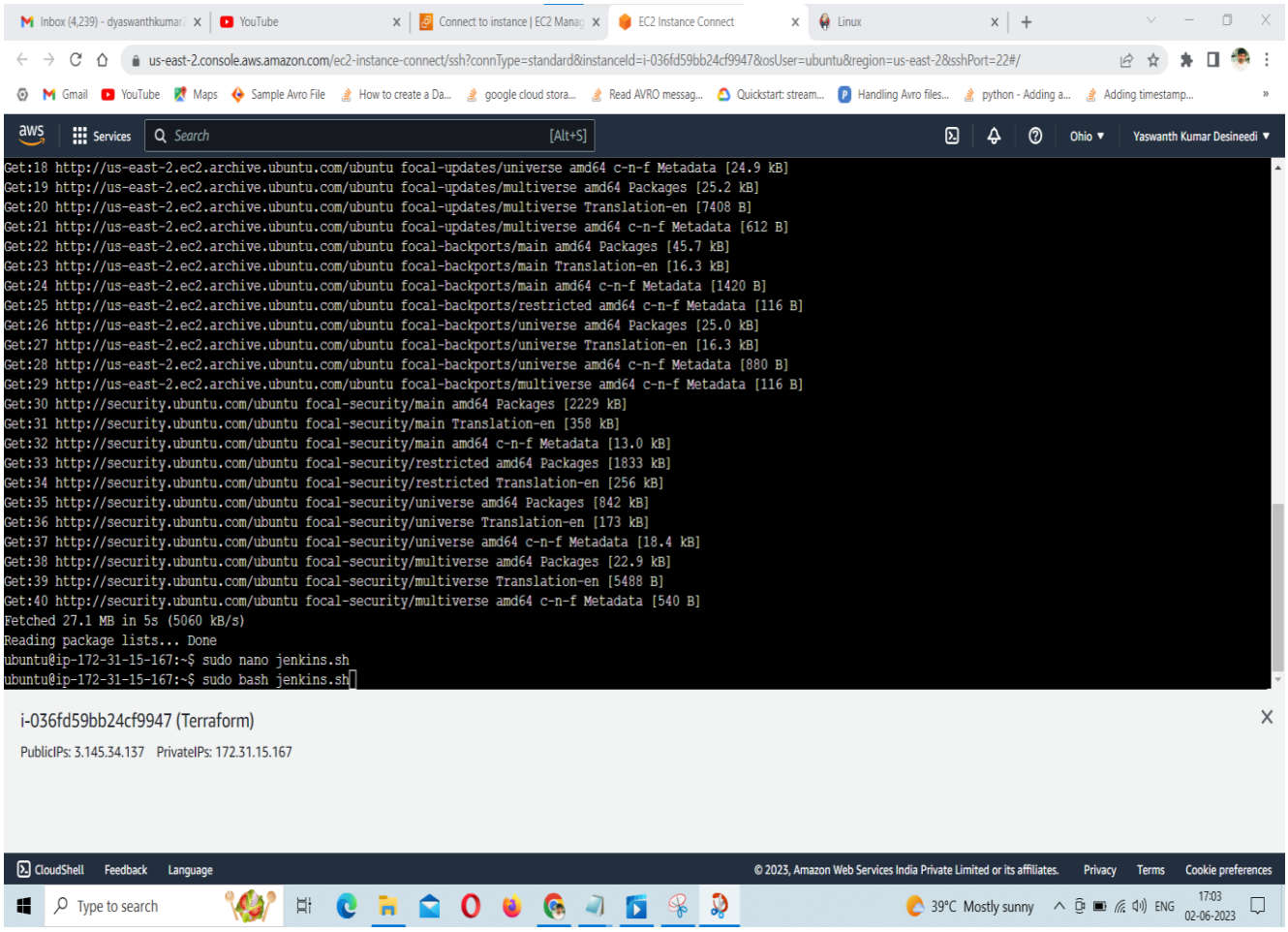
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Get:18 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-updates/universe amd64 c-n-f Metadata [24.9 kB]
Get:19 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 Packages [25.2 kB]
Get:20 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse Translation-en [7408 B]
Get:21 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-updates/multiverse amd64 c-n-f Metadata [612 B]
Get:22 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-backports/main amd64 Packages [45.7 kB]
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Get:25 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-backports/restricted amd64 c-n-f Metadata [116 B]
Get:26 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-backports/universe amd64 Packages [25.0 kB]
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Get:29 http://us-east-2.ec2.archive.ubuntu.com/ubuntu focal-backports/multiverse amd64 c-n-f Metadata [116 B]
Get:30 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [2229 kB]
Get:31 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [358 kB]
Get:32 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [13.0 kB]
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Get:37 http://security.ubuntu.com/ubuntu focal-security/universe amd64 c-n-f Metadata [18.4 kB]
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Get:40 http://security.ubuntu.com/ubuntu focal-security/multiverse amd64 c-n-f Metadata [540 B]
Fetched 27.1 MB in 5s (5060 kB/s)
Reading package lists... Done
ubuntu@ip-172-31-15-167:~$ sudo nano jenkins.sh
ubuntu@ip-172-31-15-167:~$ sudo bash jenkins.sh
i-036fd59bb24cf9947 (Terraform)
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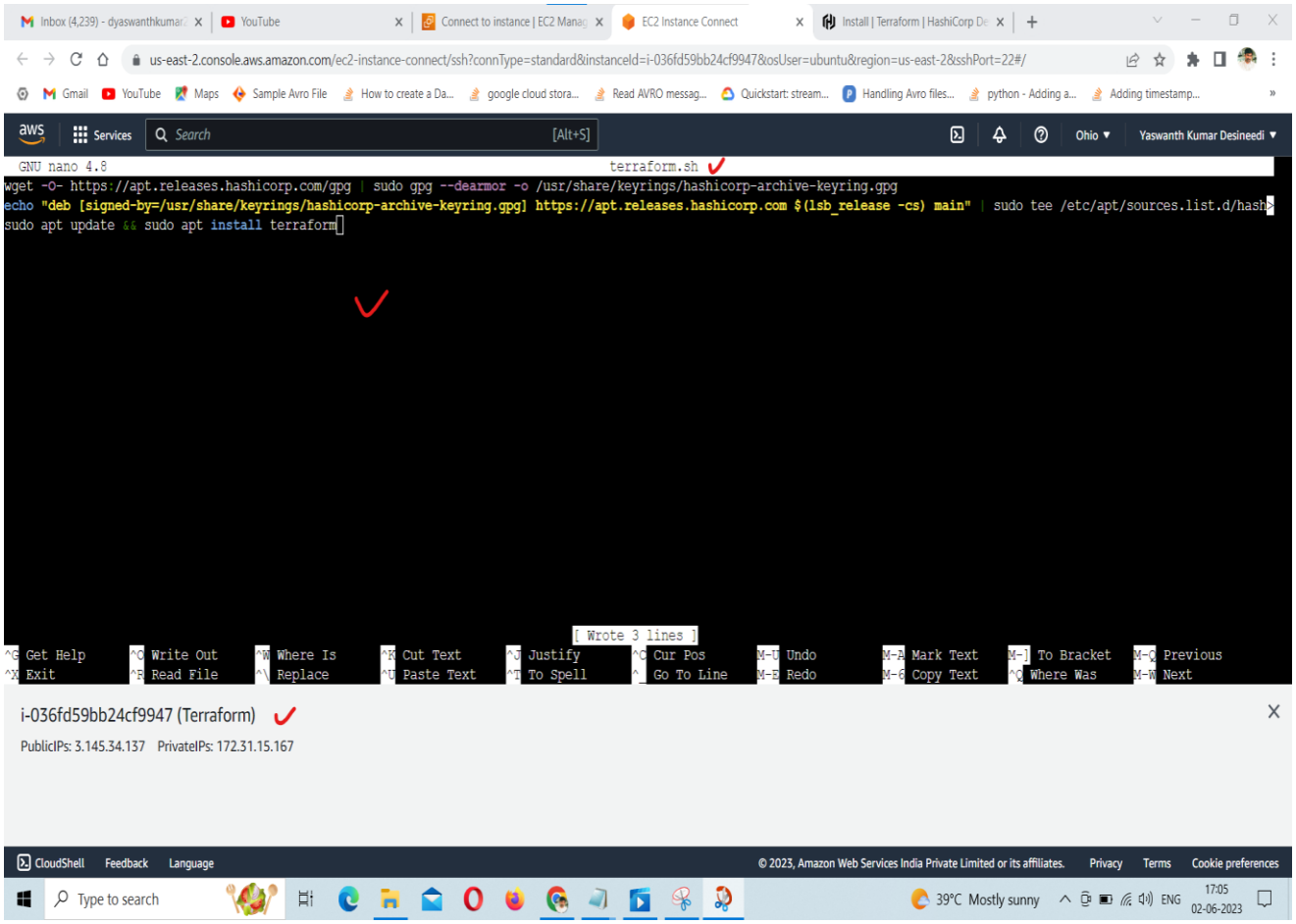
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GNU nano 4.8
terraform.sh
wget -O- https://apt.releases.hashicorp.com/gpg | sudo gpg --dearmor -o /usr/share/keyrings/hashicorp-archive-keyring.gpg
echo "deb [signed-by=/usr/share/keyrings/hashicorp-archive-keyring.gpg] https://apt.releases.hashicorp.com $(lsb_release -cs) main" | sudo tee /etc/apt/sources.list.d/hash
sudo apt update && sudo apt install terraform
[Wrote 3 lines]
^G Get Help
^O Write Out
^W Where Is
^K Cut Text
^J Justify
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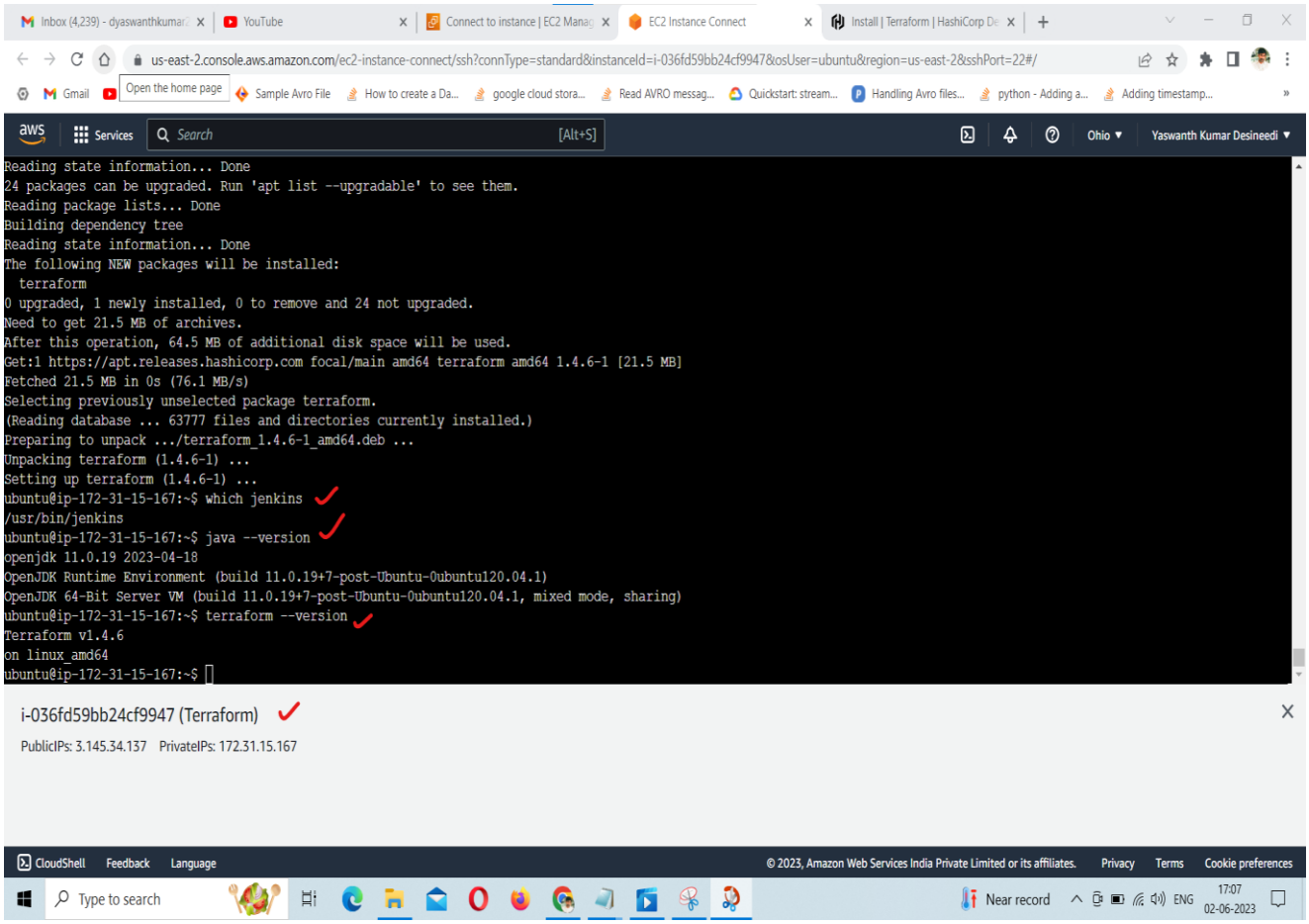
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Reading state information... Done
24 packages can be upgraded. Run 'apt list --upgradable' to see them.
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following NEW packages will be installed:
terraform
0 upgraded, 1 newly installed, 0 to remove and 24 not upgraded.
Need to get 21.5 MB of archives.
After this operation, 64.5 MB of additional disk space will be used.
Get:1 https://apt.releases.hashicorp.com focal/main amd64 terraform amd64 1.4.6-1 [21.5 MB]
Fetched 21.5 MB in 0s (76.1 MB/s)
Selecting previously unselected package terraform.
(Reading database ... 63777 files and directories currently installed.)
Preparing to unpack .../terraform_1.4.6-1_amd64.deb ...
Unpacking terraform (1.4.6-1) ...
Setting up terraform (1.4.6-1) ...
ubuntu@ip-172-31-15-167:~$ which jenkins
/usr/bin/jenkins
ubuntu@ip-172-31-15-167:~$ java --version
openjdk 11.0.19 2023-04-18
OpenJDK Runtime Environment (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1)
OpenJDK 64-Bit Server VM (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1, mixed mode, sharing)
ubuntu@ip-172-31-15-167:~$ terraform --version
Terraform v1.4.6
on linux_amd64
ubuntu@ip-172-31-15-167:~$
i-036fd59bb24cf9947 (Terraform)
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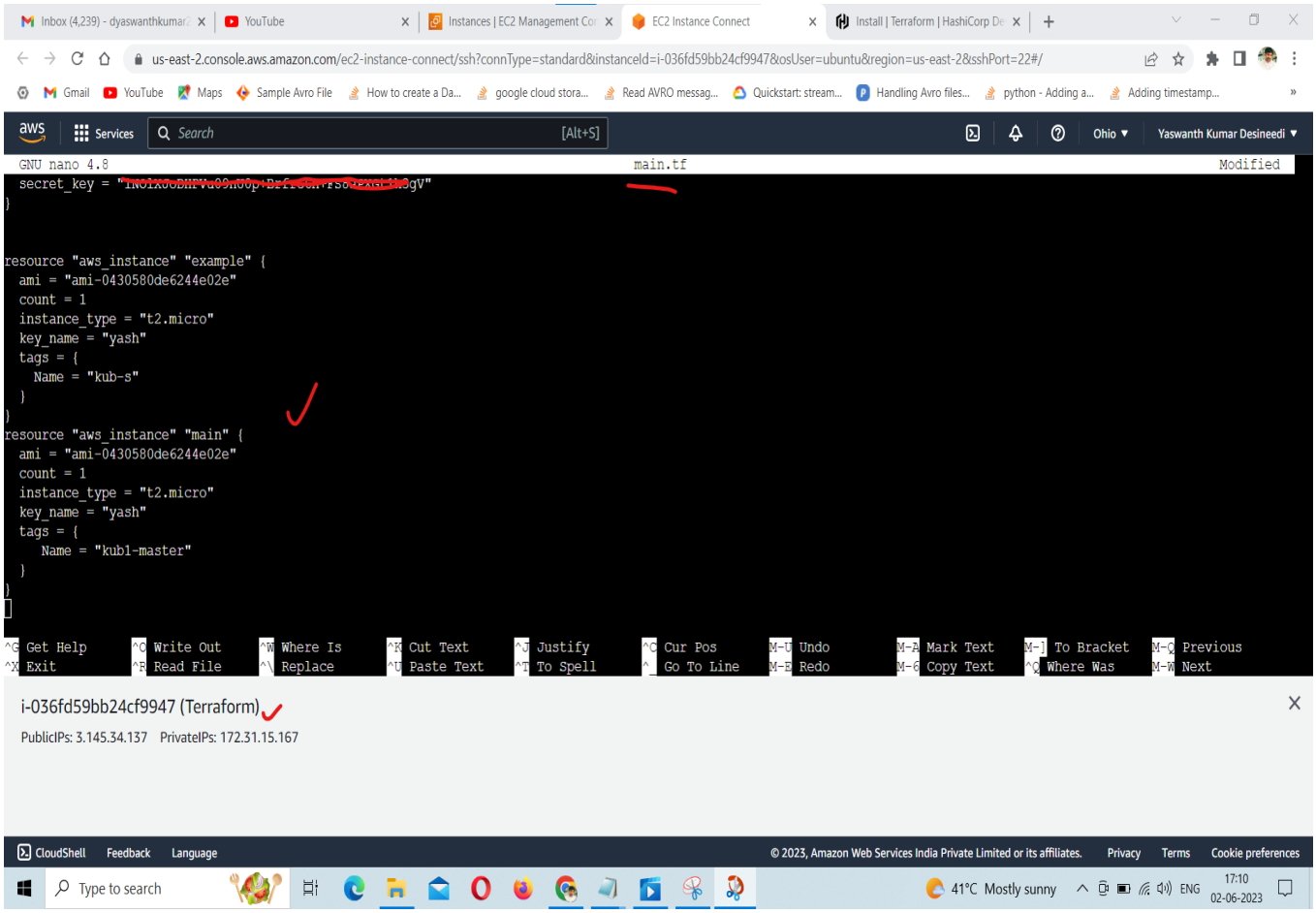
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us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-036fd59bb24cf9947&osUser=ubuntu&region=us-east-2&sshPort=22#/
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GNU nano 4.8
main.tf
Modified
secret_key = "
gV"
}
resource "aws_instance" "example" {
ami = "ami-0430580de6244e02e"
count = 1
instance_type = "t2.micro"
key_name = "yash"
tags = {
Name = "kub-s"
}
}
resource "aws_instance" "main" {
ami = "ami-0430580de6244e02e"
count = 1
instance_type = "t2.micro"
key_name = "yash"
tags = {
Name = "kub1-master"
}
}
^G Get Help
^X Exit
^O Write Out
^R Read File
^W Where Is
^\ Replace
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^U Paste Text
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^C Cur Pos
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M-U Undo
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M-A Mark Text
M-6 Copy Text
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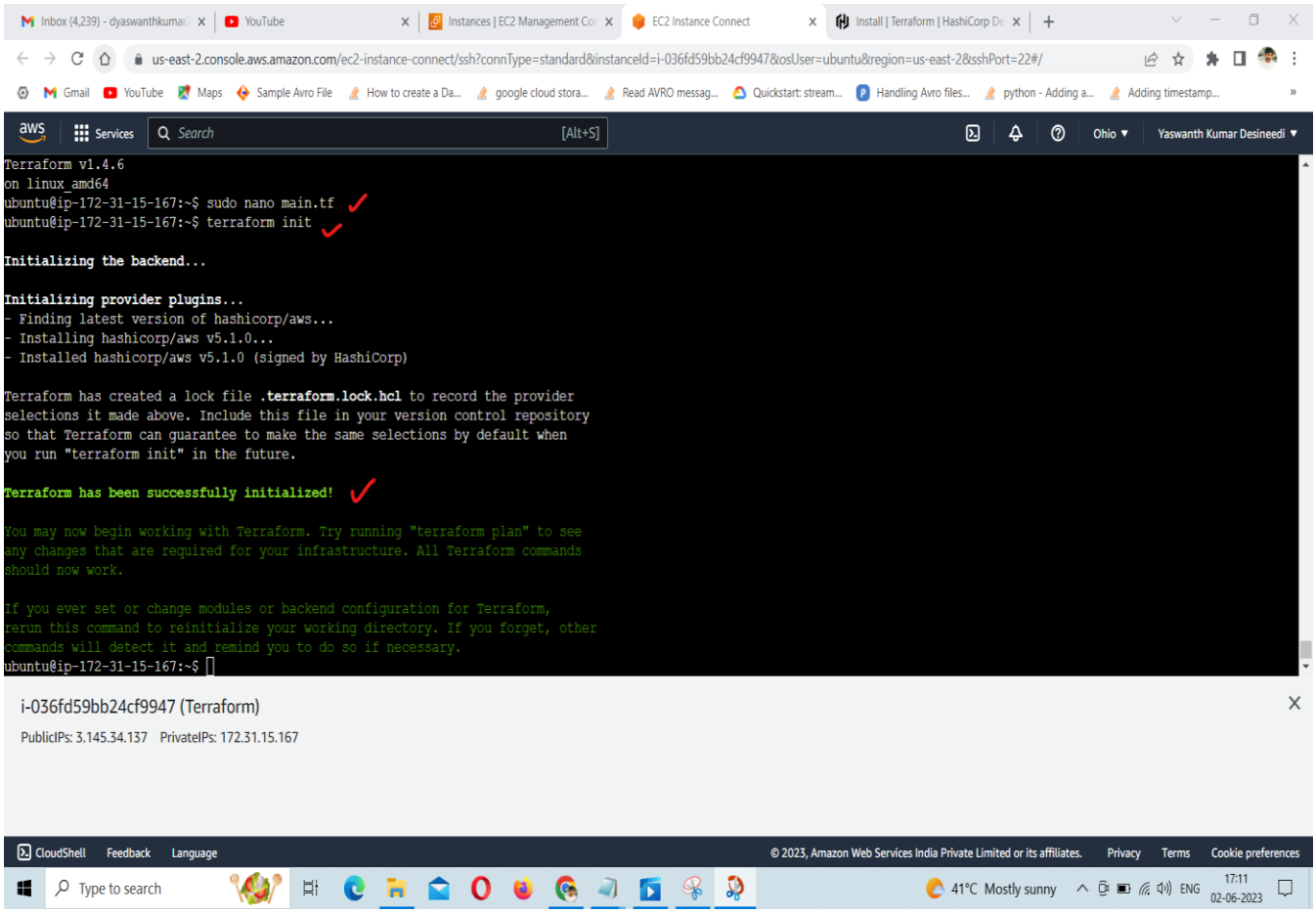
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Terraform v1.4.6
on linux_amd64
ubuntu@ip-172-31-15-167:~$ sudo nano main.tf
ubuntu@ip-172-31-15-167:~$ terraform init
Initializing the backend...
Initializing provider plugins...
- Finding latest version of hashicorp/aws...
- Installing hashicorp/aws v5.1.0...
- Installed hashicorp/aws v5.1.0 (signed by HashiCorp)
Terraform has created a lock file .terraform.lock.hcl to record the provider
selections it made above. Include this file in your version control repository
so that Terraform can guarantee to make the same selections by default when
you run "terraform init" in the future.
Terraform has been successfully initialized!
You may now begin working with Terraform. Try running "terraform plan" to see
any changes that are required for your infrastructure. All Terraform commands
should now work.
If you ever set or change modules or backend configuration for Terraform,
rerun this command to reinitialize your working directory. If you forget, other
commands will detect it and remind you to do so if necessary.
ubuntu@ip-172-31-15-167:~$
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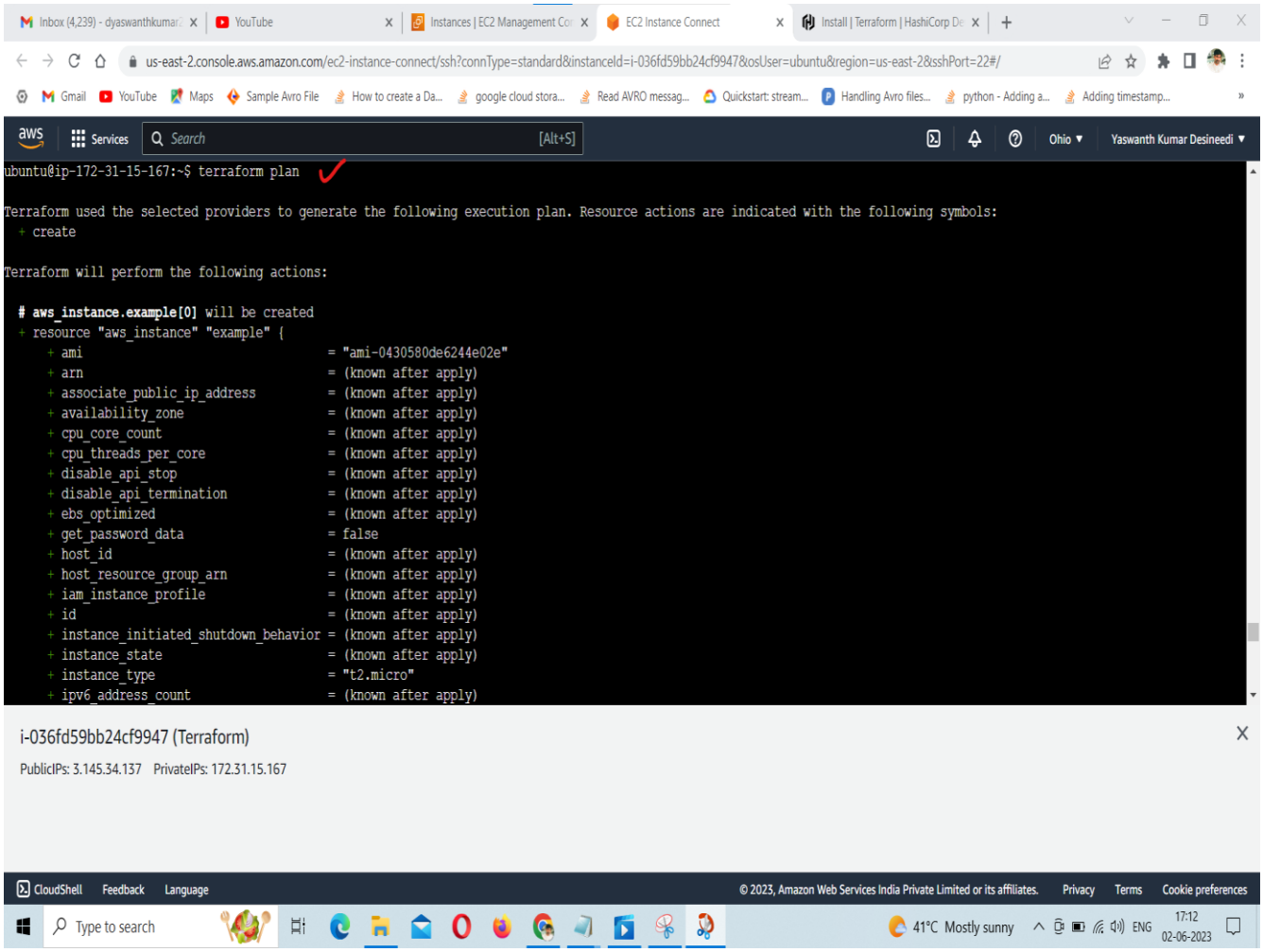
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ubuntu@ip-172-31-15-167:~$ terraform plan
Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:
+ create
Terraform will perform the following actions:
# aws_instance.example[0] will be created
+ resource "aws_instance" "example" {
+ ami = "ami-0430580de6244e02e"
+ arn = (known after apply)
+ associate_public_ip_address = (known after apply)
+ availability_zone = (known after apply)
+ cpu_core_count = (known after apply)
+ cpu_threads_per_core = (known after apply)
+ disable_api_stop = (known after apply)
+ disable_api_termination = (known after apply)
+ ebs_optimized = (known after apply)
+ get_password_data = false
+ host_id = (known after apply)
+ host_resource_group_arn = (known after apply)
+ iam_instance_profile = (known after apply)
+ id = (known after apply)
+ instance_initiated_shutdown_behavior = (known after apply)
+ instance_state = (known after apply)
+ instance_type = "t2.micro"
+ ipv6_address_count = (known after apply)
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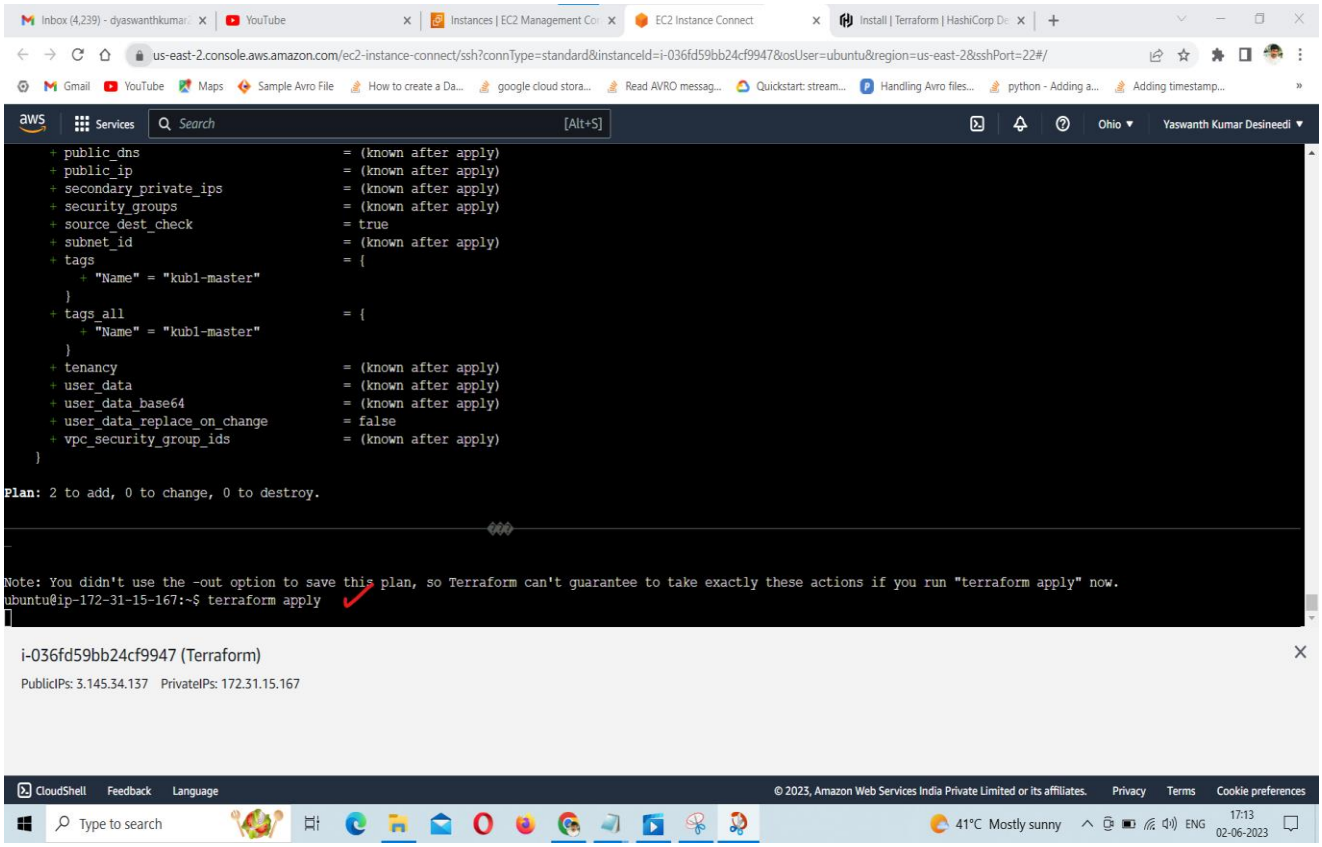
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us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-036fd59bb24cf9947&osUser=ubuntu&region=us-east-2&sshPort=22#/
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+ public_dns = (known after apply)
+ public_ip = (known after apply)
+ secondary_private_ips = (known after apply)
+ security_groups = (known after apply)
+ source_dest_check = true
+ subnet_id = (known after apply)
+ tags = {
+ "Name" = "kub1-master"
}
+ tags_all = {
+ "Name" = "kub1-master"
}
+ tenancy = (known after apply)
+ user_data = (known after apply)
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)
}
Plan: 2 to add, 0 to change, 0 to destroy.
Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run "terraform apply" now.
ubuntu@ip-172-31-15-167:~$ terraform apply
i-036fd59bb24cf9947 (Terraform)
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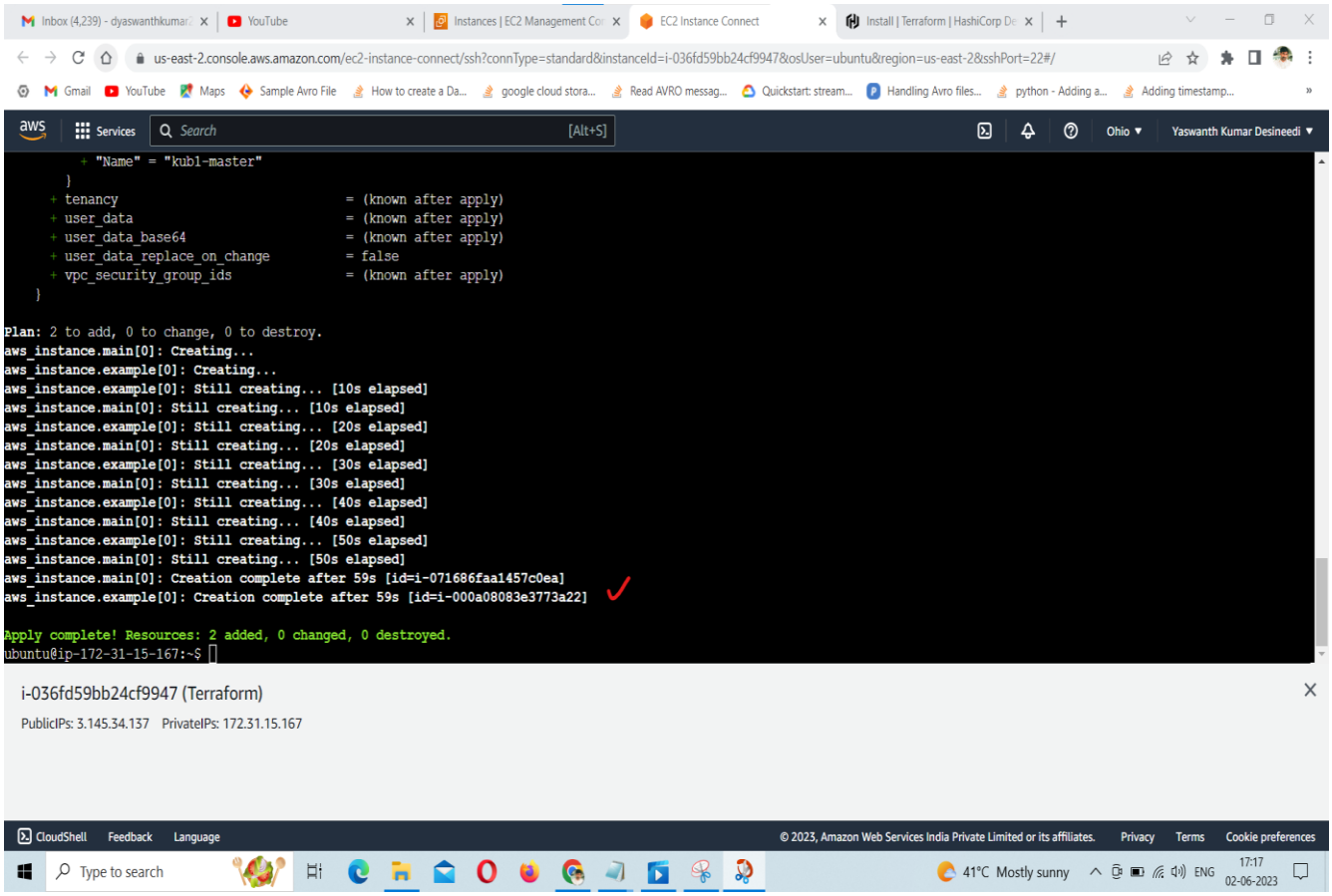
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Ohio
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+ "Name" = "kub1-master"
}
+ tenancy = (known after apply)
+ user_data = (known after apply)
+ user_data_base64 = (known after apply)
+ user_data_replace_on_change = false
+ vpc_security_group_ids = (known after apply)
}
Plan: 2 to add, 0 to change, 0 to destroy.
aws_instance.main[0]: Creating...
aws_instance.example[0]: Creating...
aws_instance.example[0]: Still creating... [10s elapsed]
aws_instance.main[0]: Still creating... [10s elapsed]
aws_instance.example[0]: Still creating... [20s elapsed]
aws_instance.main[0]: Still creating... [20s elapsed]
aws_instance.example[0]: Still creating... [30s elapsed]
aws_instance.main[0]: Still creating... [30s elapsed]
aws_instance.example[0]: Still creating... [40s elapsed]
aws_instance.main[0]: Still creating... [40s elapsed]
aws_instance.example[0]: Still creating... [50s elapsed]
aws_instance.main[0]: Still creating... [50s elapsed]
aws_instance.main[0]: Creation complete after 59s [id=i-071686faa1457c0ea]
aws_instance.example[0]: Creation complete after 59s [id=i-000a08083e3773a22]
Apply complete! Resources: 2 added, 0 changed, 0 destroyed.
ubuntu@ip-172-31-15-167:~$
i-036fd59bb24cf9947 (Terraform)
PublicIPs: 3.145.34.137 PrivateIPs: 172.31.15.167
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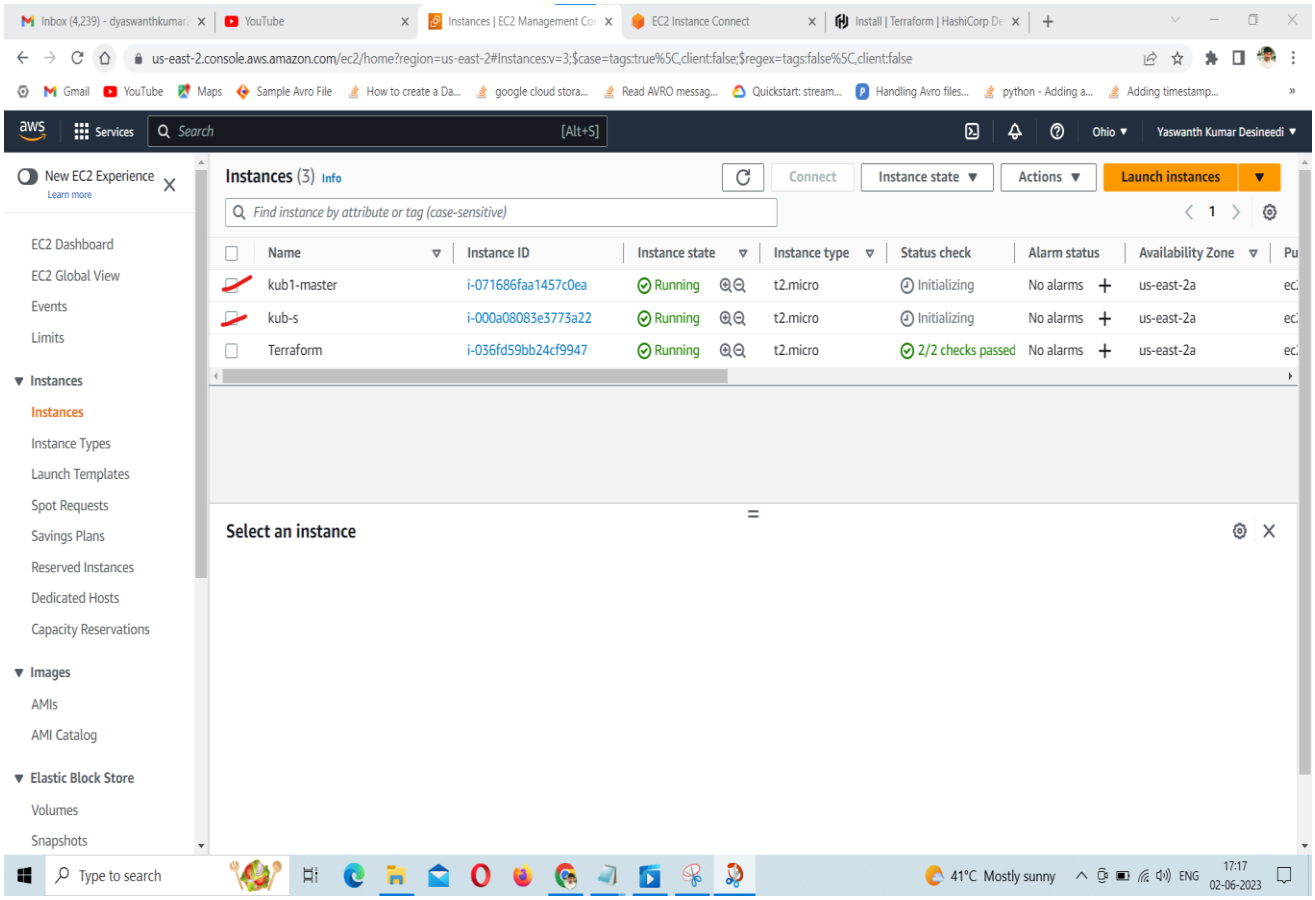
Inbox (4,239) - dyaswanthkumar
YouTube
Instances | EC2 Management Co
EC2 Instance Connect
Install | Terraform | HashiCorp De
us-east-2.console.aws.amazon.com/ec2/home?region=us-east-2#Instances:v=3;$case=tags:true%5C,client:false;$regex=tags:false%5C,client:false
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How to create a Da...
google cloud stora...
Read AVRO messag...
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Handling Avro files...
python - Adding a...
Adding timestamp...
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New EC2 Experience
Learn more
EC2 Dashboard
EC2 Global View
Events
Limits
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Instances (3) Info
Connect
Instance state
Actions
Launch instances
Find instance by attribute or tag (case-sensitive)
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
kub1-master
i-071686faa1457c0ea
Running
t2.micro
Initializing
No alarms
us-east-2a
kub-s
i-000a08083e3773a22
Running
t2.micro
Initializing
No alarms
us-east-2a
Terraform
i-036fd59bb24cf9947
Running
t2.micro
2/2 checks passed
No alarms
us-east-2a
Select an instance
Type to search
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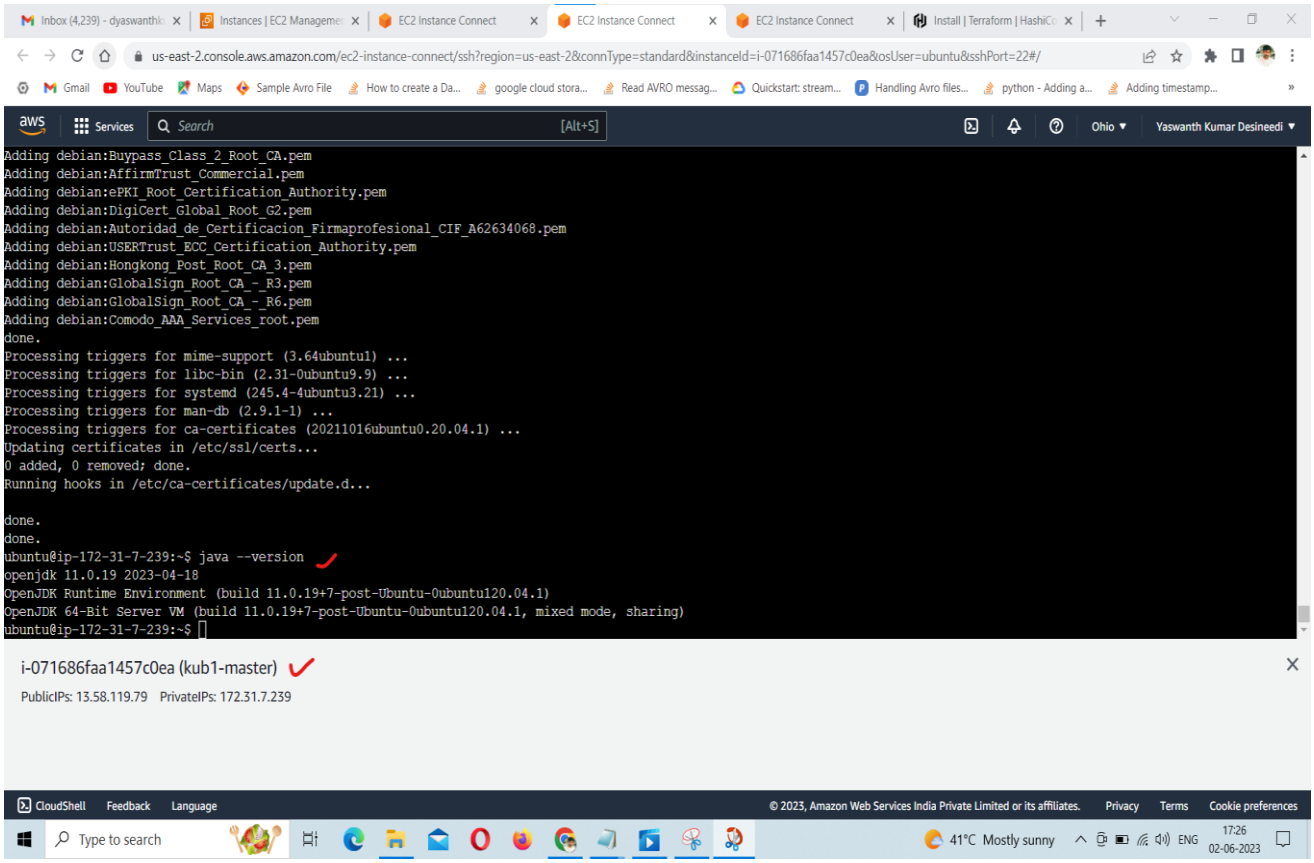
Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Install | Terraform | HashiCo
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-071686faa1457c0ea&osUser=ubuntu&sshPort=22#/
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Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
aws
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Ohio
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Adding debian:Buypass_Class_2_Root_CA.pem
Adding debian:AffirmTrust_Commercial.pem
Adding debian:ePKI_Root_Certification_Authority.pem
Adding debian:DigiCert_Global_Root_G2.pem
Adding debian:Autoridad_de_Certificacion_Firmaprofesional_CIF_A62634068.pem
Adding debian:USERTrust_ECC_Certification_Authority.pem
Adding debian:Hongkong_Post_Root_CA_3.pem
Adding debian:GlobalSign_Root_CA_-_R3.pem
Adding debian:GlobalSign_Root_CA_-_R6.pem
Adding debian:Comodo_AAA_Services_root.pem
done.
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
Processing triggers for systemd (245.4-4ubuntu3.21) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for ca-certificates (20211016ubuntu0.20.04.1) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
done.
ubuntu@ip-172-31-7-239:~$ java --version
openjdk 11.0.19 2023-04-18
OpenJDK Runtime Environment (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1)
OpenJDK 64-Bit Server VM (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1, mixed mode, sharing)
ubuntu@ip-172-31-7-239:~$
i-071686faa1457c0ea (kub1-master)
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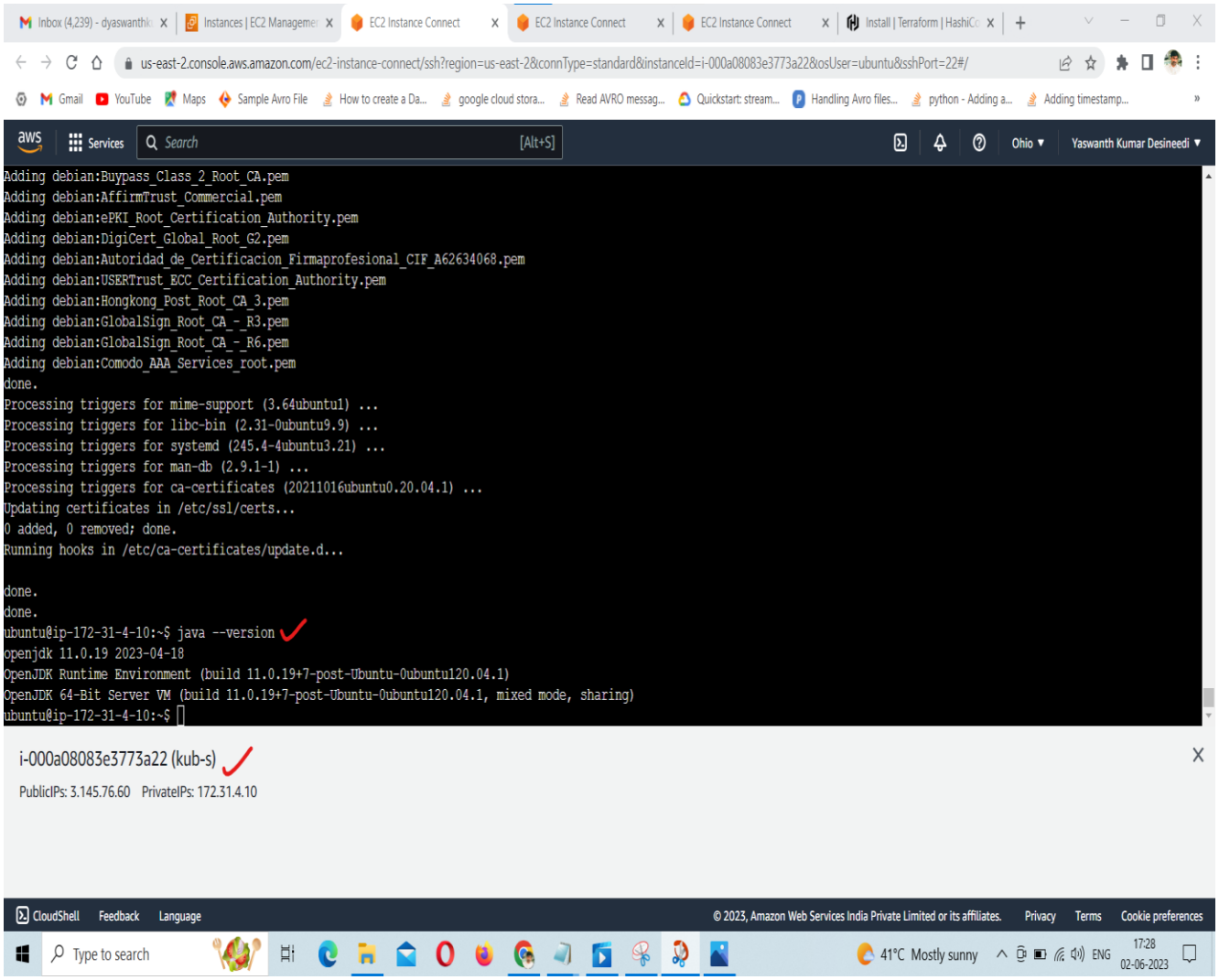
Inbox (4,239) - dyaswanthk
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EC2 Instance Connect
EC2 Instance Connect
Install | Terraform | HashiCo
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-000a08083e3773a22&osUser=ubuntu&sshPort=22#/
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Adding debian:Buypass_Class_2_Root_CA.pem
Adding debian:AffirmTrust_Commercial.pem
Adding debian:ePKI_Root_Certification_Authority.pem
Adding debian:DigiCert_Global_Root_G2.pem
Adding debian:Autoridad_de_Certificacion_Firmaprofesional_CIF_A62634068.pem
Adding debian:USERTrust_ECC_Certification_Authority.pem
Adding debian:Hongkong_Post_Root_CA_3.pem
Adding debian:GlobalSign_Root_CA_-_R3.pem
Adding debian:GlobalSign_Root_CA_-_R6.pem
Adding debian:Comodo_AAA_Services_root.pem
done.
Processing triggers for mime-support (3.64ubuntu1) ...
Processing triggers for libc-bin (2.31-0ubuntu9.9) ...
Processing triggers for systemd (245.4-4ubuntu3.21) ...
Processing triggers for man-db (2.9.1-1) ...
Processing triggers for ca-certificates (20211016ubuntu0.20.04.1) ...
Updating certificates in /etc/ssl/certs...
0 added, 0 removed; done.
Running hooks in /etc/ca-certificates/update.d...
done.
done.
ubuntu@ip-172-31-4-10:~$ java --version
openjdk 11.0.19 2023-04-18
OpenJDK Runtime Environment (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1)
OpenJDK 64-Bit Server VM (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1, mixed mode, sharing)
ubuntu@ip-172-31-4-10:~$
i-000a08083e3773a22 (kub-s)
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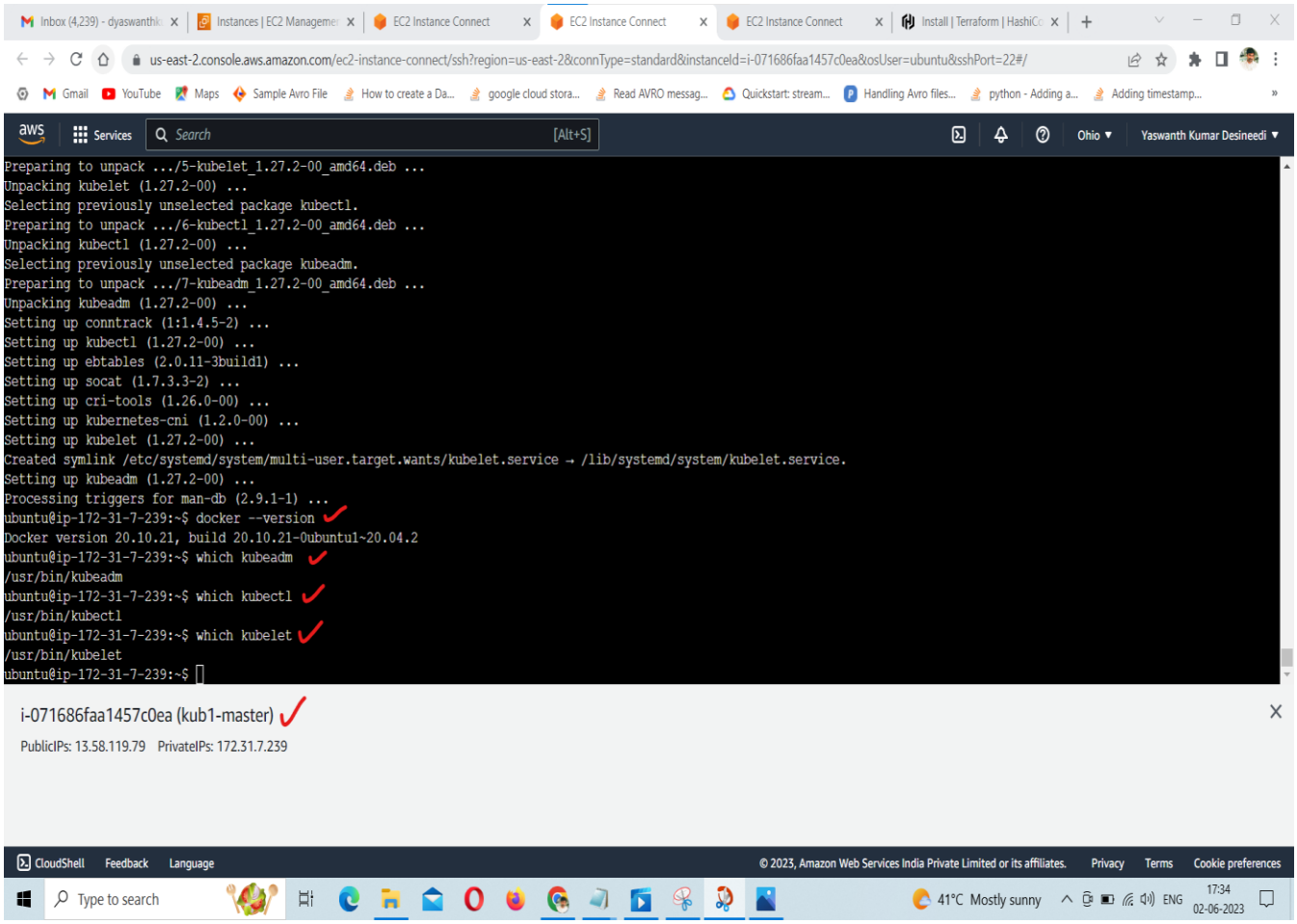
Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Install | Terraform | HashiCo
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-071686faa1457c0ea&osUser=ubuntu&sshPort=22#/
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Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
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Ohio
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Preparing to unpack .../5-kubelet_1.27.2-00_amd64.deb ...
Unpacking kubelet (1.27.2-00) ...
Selecting previously unselected package kubectl.
Preparing to unpack .../6-kubectl_1.27.2-00_amd64.deb ...
Unpacking kubectl (1.27.2-00) ...
Selecting previously unselected package kubeadm.
Preparing to unpack .../7-kubeadm_1.27.2-00_amd64.deb ...
Unpacking kubeadm (1.27.2-00) ...
Setting up conntrack (1:1.4.5-2) ...
Setting up kubectl (1.27.2-00) ...
Setting up ebtables (2.0.11-3build1) ...
Setting up socat (1.7.3.3-2) ...
Setting up cri-tools (1.26.0-00) ...
Setting up kubernetes-cni (1.2.0-00) ...
Setting up kubelet (1.27.2-00) ...
Created symlink /etc/systemd/system/multi-user.target.wants/kubelet.service → /lib/systemd/system/kubelet.service.
Setting up kubeadm (1.27.2-00) ...
Processing triggers for man-db (2.9.1-1) ...
ubuntu@ip-172-31-7-239:~$ docker --version
Docker version 20.10.21, build 20.10.21-0ubuntu1~20.04.2
ubuntu@ip-172-31-7-239:~$ which kubeadm
/usr/bin/kubeadm
ubuntu@ip-172-31-7-239:~$ which kubectl
/usr/bin/kubectl
ubuntu@ip-172-31-7-239:~$ which kubelet
/usr/bin/kubelet
ubuntu@ip-172-31-7-239:~$
i-071686faa1457c0ea (kub1-master)
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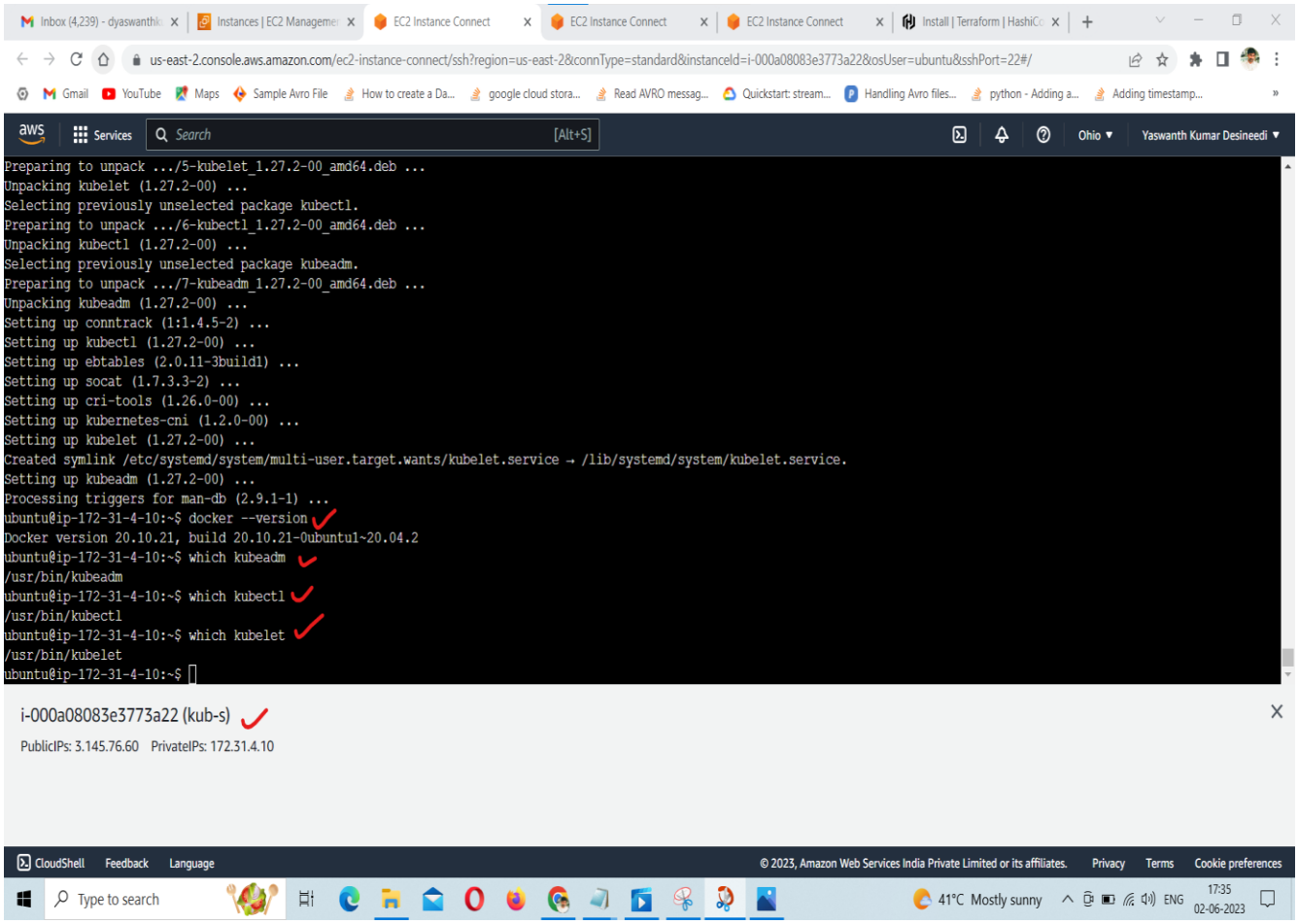
Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Install | Terraform | HashiCo
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-000a08083e3773a22&osUser=ubuntu&sshPort=22#/
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Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
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Preparing to unpack .../5-kubelet_1.27.2-00_amd64.deb ...
Unpacking kubelet (1.27.2-00) ...
Selecting previously unselected package kubectl.
Preparing to unpack .../6-kubectl_1.27.2-00_amd64.deb ...
Unpacking kubectl (1.27.2-00) ...
Selecting previously unselected package kubeadm.
Preparing to unpack .../7-kubeadm_1.27.2-00_amd64.deb ...
Unpacking kubeadm (1.27.2-00) ...
Setting up conntrack (1:1.4.5-2) ...
Setting up kubectl (1.27.2-00) ...
Setting up ebtables (2.0.11-3build1) ...
Setting up socat (1.7.3.3-2) ...
Setting up cri-tools (1.26.0-00) ...
Setting up kubernetes-cni (1.2.0-00) ...
Setting up kubelet (1.27.2-00) ...
Created symlink /etc/systemd/system/multi-user.target.wants/kubelet.service → /lib/systemd/system/kubelet.service.
Setting up kubeadm (1.27.2-00) ...
Processing triggers for man-db (2.9.1-1) ...
ubuntu@ip-172-31-4-10:~$ docker --version
Docker version 20.10.21, build 20.10.21-0ubuntu1~20.04.2
ubuntu@ip-172-31-4-10:~$ which kubeadm
/usr/bin/kubeadm
ubuntu@ip-172-31-4-10:~$ which kubectl
/usr/bin/kubectl
ubuntu@ip-172-31-4-10:~$ which kubelet
/usr/bin/kubelet
ubuntu@ip-172-31-4-10:~$
i-000a08083e3773a22 (kub-s)
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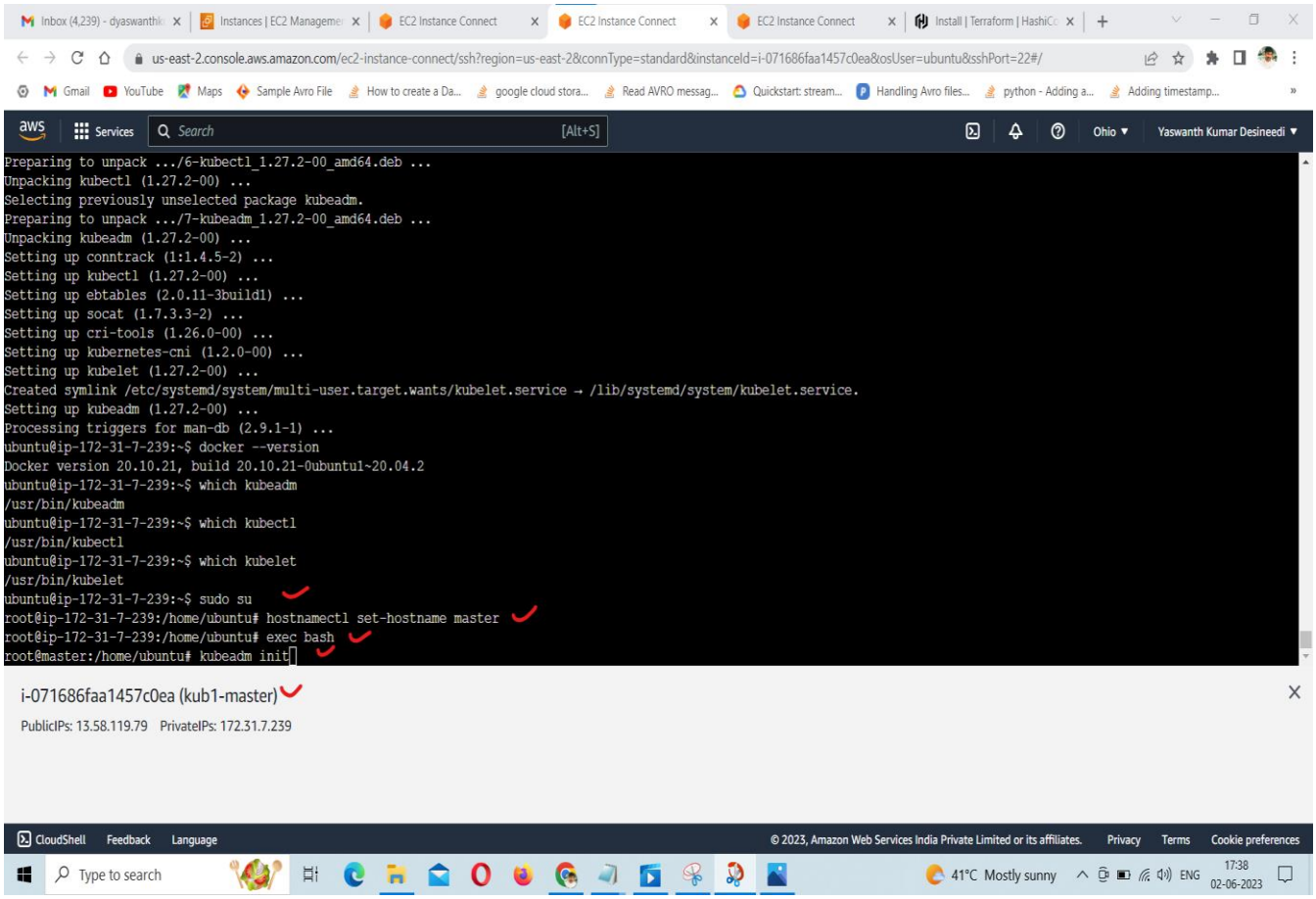
Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Install | Terraform | HashiCo
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-071686faa1457c0ea&osUser=ubuntu&sshPort=22#/
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google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
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Preparing to unpack .../6-kubectl_1.27.2-00_amd64.deb ...
Unpacking kubectl (1.27.2-00) ...
Selecting previously unselected package kubeadm.
Preparing to unpack .../7-kubeadm_1.27.2-00_amd64.deb ...
Unpacking kubeadm (1.27.2-00) ...
Setting up conntrack (1:1.4.5-2) ...
Setting up kubectl (1.27.2-00) ...
Setting up ebtables (2.0.11-3build1) ...
Setting up socat (1.7.3.3-2) ...
Setting up cri-tools (1.26.0-00) ...
Setting up kubernetes-cni (1.2.0-00) ...
Setting up kubelet (1.27.2-00) ...
Created symlink /etc/systemd/system/multi-user.target.wants/kubelet.service → /lib/systemd/system/kubelet.service.
Setting up kubeadm (1.27.2-00) ...
Processing triggers for man-db (2.9.1-1) ...
ubuntu@ip-172-31-7-239:~$ docker --version
Docker version 20.10.21, build 20.10.21-0ubuntu1~20.04.2
ubuntu@ip-172-31-7-239:~$ which kubeadm
/usr/bin/kubeadm
ubuntu@ip-172-31-7-239:~$ which kubectl
/usr/bin/kubectl
ubuntu@ip-172-31-7-239:~$ which kubelet
/usr/bin/kubelet
ubuntu@ip-172-31-7-239:~$ sudo su
root@ip-172-31-7-239:/home/ubuntu# hostnamectl set-hostname master
root@ip-172-31-7-239:/home/ubuntu# exec bash
root@master:/home/ubuntu# kubeadm init
i-071686faa1457c0ea (kub1-master)
PublicIPs: 13.58.119.79 PrivateIPs: 172.31.7.239
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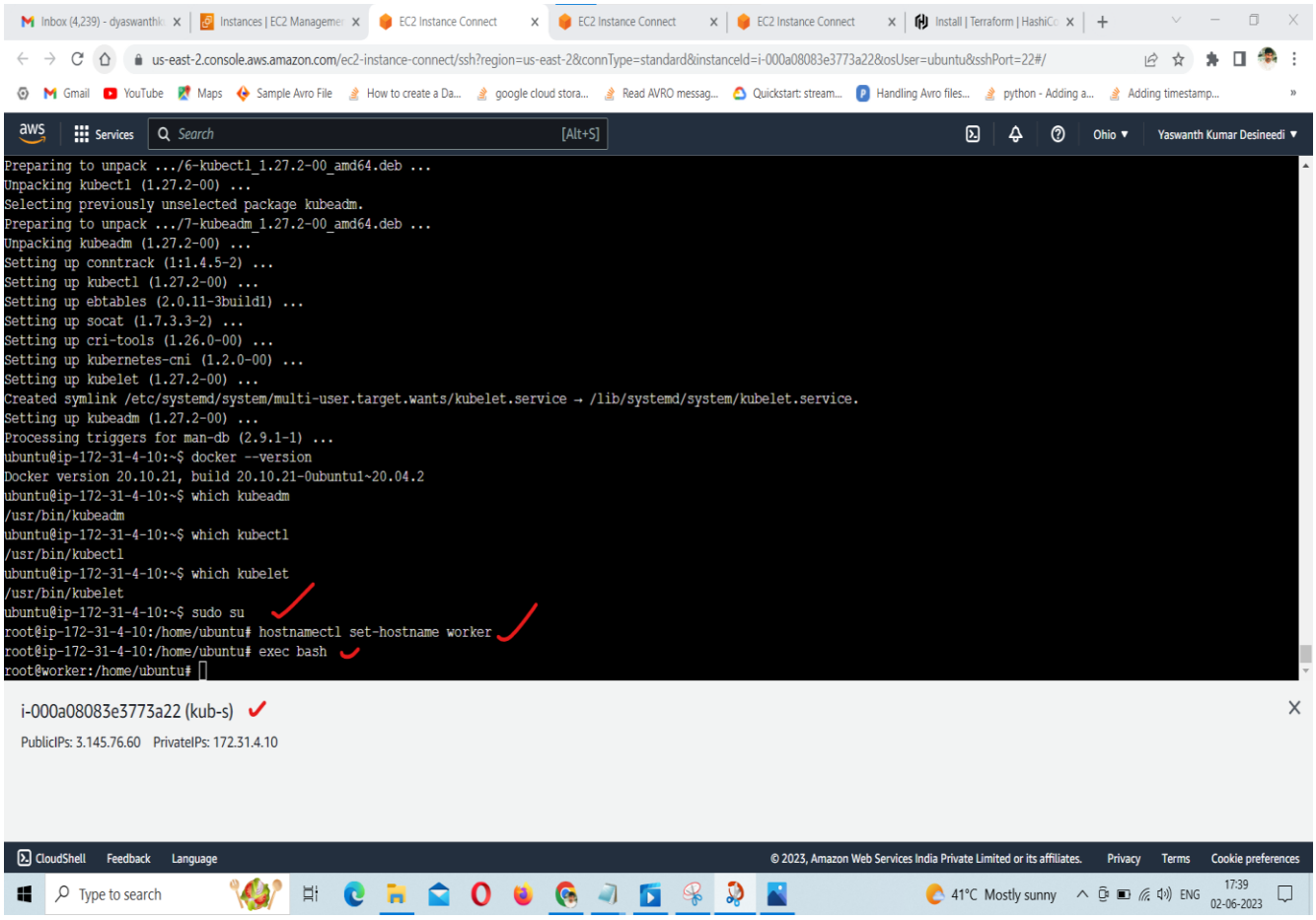
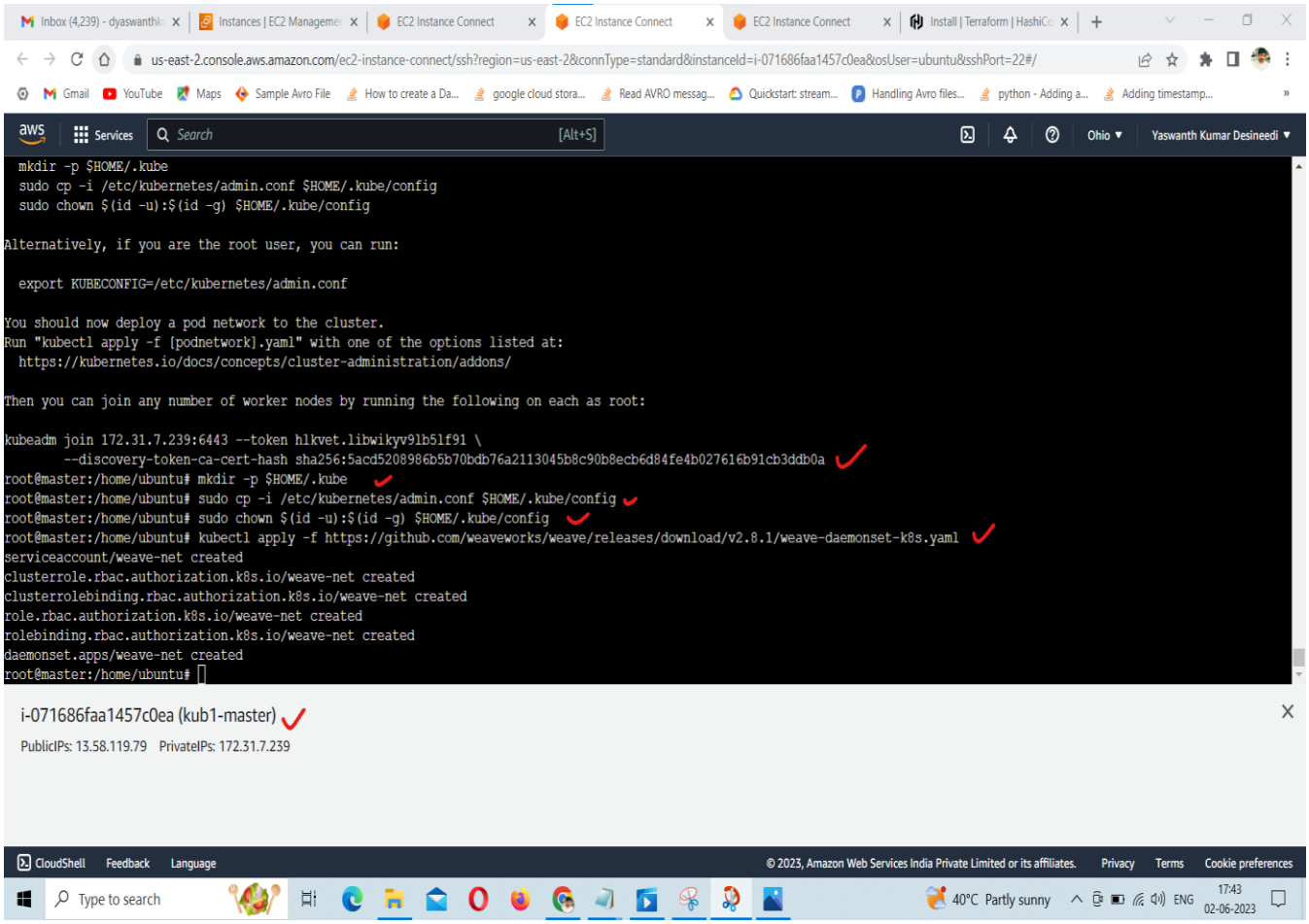

Preparing to unpack .../6-kubectl_1.27.2-00_amd64.deb ...
Unpacking kubectl (1.27.2-00) ...
Selecting previously unselected package kubeadm.
Preparing to unpack .../7-kubeadm_1.27.2-00_amd64.deb ...
Unpacking kubeadm (1.27.2-00) ...
Setting up conntrack (1:1.4.5-2) ...
Setting up kubectl (1.27.2-00) ...
Setting up ebtables (2.0.11-3build1) ...
Setting up socat (1.7.3.3-2) ...
Setting up cri-tools (1.26.0-00) ...
Setting up kubernetes-cni (1.2.0-00) ...
Setting up kubelet (1.27.2-00) ...
Created symlink /etc/systemd/system/multi-user.target.wants/kubelet.service → /lib/systemd/system/kubelet.service.
Setting up kubeadm (1.27.2-00) ...
Processing triggers for man-db (2.9.1-1) ...
ubuntu@ip-172-31-4-10:~$ docker --version
Docker version 20.10.21, build 20.10.21-0ubuntu1~20.04.2
ubuntu@ip-172-31-4-10:~$ which kubeadm
/usr/bin/kubeadm
ubuntu@ip-172-31-4-10:~$ which kubectl
/usr/bin/kubectl
ubuntu@ip-172-31-4-10:~$ which kubelet
/usr/bin/kubelet
ubuntu@ip-172-31-4-10:~$ sudo su
root@ip-172-31-4-10:/home/ubuntu# hostnamectl set-hostname worker
root@ip-172-31-4-10:/home/ubuntu# exec bash
root@worker:/home/ubuntu#
i-000a08083e3773a22 (kub-s)
PublicIPs: 3.145.76.60 PrivateIPs: 172.31.4.10


Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Install | Terraform | HashiCo
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-071686faa1457c0ea&osUser=ubuntu&sshPort=22#/
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Sample Avro File
How to create a Da...
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Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
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Ohio
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mkdir -p $HOME/.kube
sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
sudo chown $(id -u):$(id -g) $HOME/.kube/config
Alternatively, if you are the root user, you can run:
export KUBECONFIG=/etc/kubernetes/admin.conf
You should now deploy a pod network to the cluster.
Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:
https://kubernetes.io/docs/concepts/cluster-administration/addons/
Then you can join any number of worker nodes by running the following on each as root:
kubeadm join 172.31.7.239:6443 --token hlkvet.libwikyv91b51f91 \
--discovery-token-ca-cert-hash sha256:5acd5208986b5b70bdb76a2113045b8c90b8ecb6d84fe4b027616b91cb3ddb0a
root@master:/home/ubuntu# mkdir -p $HOME/.kube
root@master:/home/ubuntu# sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
root@master:/home/ubuntu# sudo chown $(id -u):$(id -g) $HOME/.kube/config
root@master:/home/ubuntu# kubectl apply -f https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemonset-k8s.yaml
serviceaccount/weave-net created
clusterrole.rbac.authorization.k8s.io/weave-net created
clusterrolebinding.rbac.authorization.k8s.io/weave-net created
role.rbac.authorization.k8s.io/weave-net created
rolebinding.rbac.authorization.k8s.io/weave-net created
daemonset.apps/weave-net created
root@master:/home/ubuntu#
i-071686faa1457c0ea (kub1-master)
PublicIPs: 13.58.119.79 PrivateIPs: 172.31.7.239
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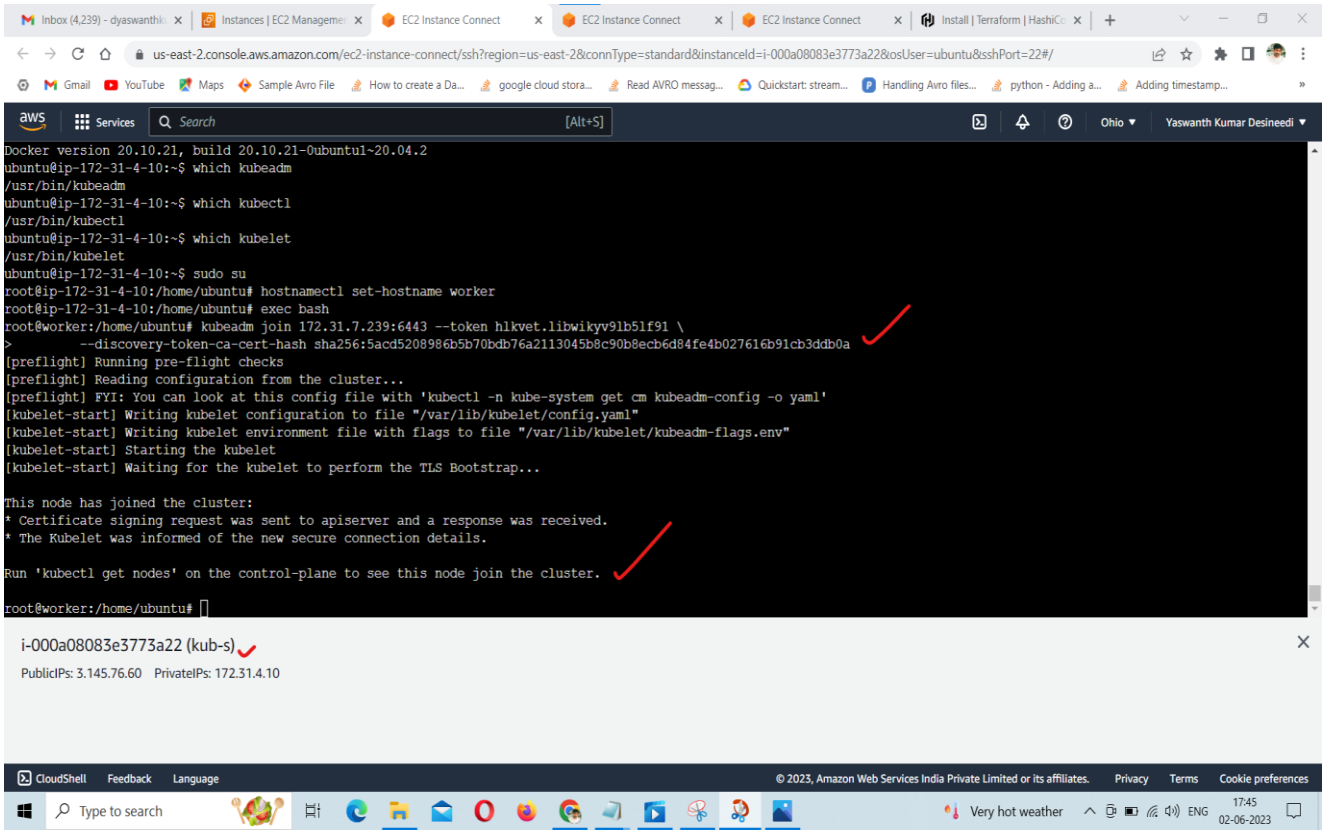
Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Install | Terraform | HashiCo
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-000a08083e3773a22&osUser=ubuntu&sshPort=22#/
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Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
aws
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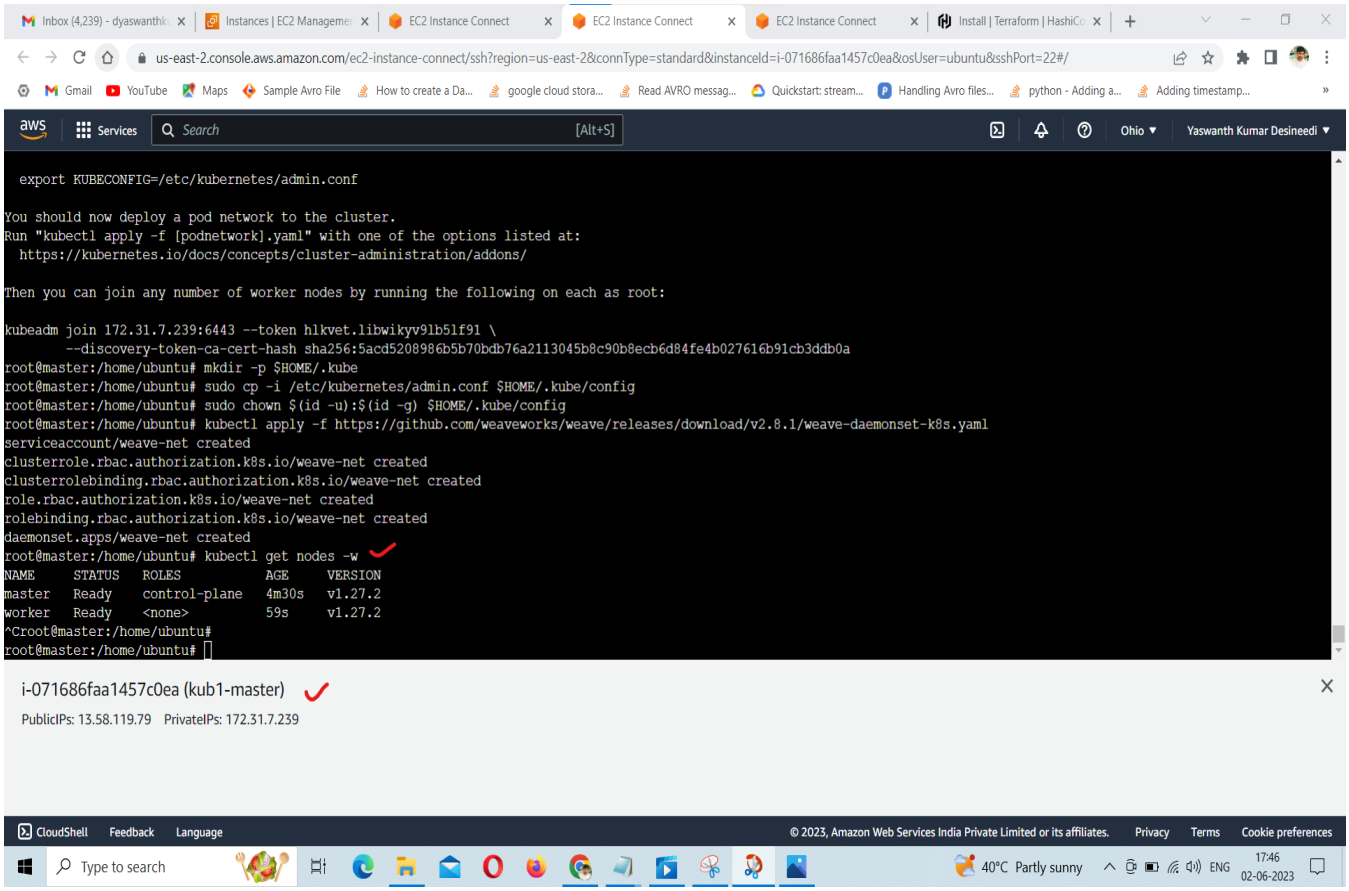
Search
[Alt+S]
Ohio
Yaswanth Kumar Desineedi
Docker version 20.10.21, build 20.10.21-0ubuntu1~20.04.2
ubuntu@ip-172-31-4-10:~$ which kubeadm
/usr/bin/kubeadm
ubuntu@ip-172-31-4-10:~$ which kubectl
/usr/bin/kubectl
ubuntu@ip-172-31-4-10:~$ which kubelet
/usr/bin/kubelet
ubuntu@ip-172-31-4-10:~$ sudo su
root@ip-172-31-4-10:/home/ubuntu# hostnamectl set-hostname worker
root@ip-172-31-4-10:/home/ubuntu# exec bash
root@worker:/home/ubuntu# kubeadm join 172.31.7.239:6443 --token hlkvet.libwikyv9lb5lf91 \
> --discovery-token-ca-cert-hash sha256:5acd5208986b5b70bdb76a2113045b8c90b8ecb6d84fe4b027616b91cb3ddb0a
[preflight] Running pre-flight checks
[preflight] Reading configuration from the cluster...
[preflight] FYI: You can look at this config file with 'kubectl -n kube-system get cm kubeadm-config -o yaml'
[kubelet-start] Writing kubelet configuration to file "/var/lib/kubelet/config.yaml"
[kubelet-start] Writing kubelet environment file with flags to file "/var/lib/kubelet/kubeadm-flags.env"
[kubelet-start] Starting the kubelet
[kubelet-start] Waiting for the kubelet to perform the TLS Bootstrap...
This node has joined the cluster:
* Certificate signing request was sent to apiserver and a response was received.
* The Kubelet was informed of the new secure connection details.
Run 'kubectl get nodes' on the control-plane to see this node join the cluster.
root@worker:/home/ubuntu#
i-000a08083e3773a22 (kub-s)
PublicIPs: 3.145.76.60 PrivateIPs: 172.31.4.10
CloudShell
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences
Type to search
Very hot weather
ENG
17:45
02-06-2023


Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Install | Terraform | HashiCo
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-071686faa1457c0ea&osUser=ubuntu&sshPort=22#/
Gmail
YouTube
Maps
Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
aws
Services
Search
[Alt+S]
Ohio
Yaswanth Kumar Desineedi
export KUBECONFIG=/etc/kubernetes/admin.conf
You should now deploy a pod network to the cluster.
Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:
https://kubernetes.io/docs/concepts/cluster-administration/addons/
Then you can join any number of worker nodes by running the following on each as root:
kubeadm join 172.31.7.239:6443 --token hlkvet.libwikyv9lb5lf91 \
--discovery-token-ca-cert-hash sha256:5acd5208986b5b70bdb76a2113045b8c90b8ecb6d84fe4b027616b91cb3ddb0a
root@master:/home/ubuntu# mkdir -p $HOME/.kube
root@master:/home/ubuntu# sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
root@master:/home/ubuntu# sudo chown $(id -u):$(id -g) $HOME/.kube/config
root@master:/home/ubuntu# kubectl apply -f https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemonset-k8s.yaml
serviceaccount/weave-net created
clusterrole.rbac.authorization.k8s.io/weave-net created
clusterrolebinding.rbac.authorization.k8s.io/weave-net created
role.rbac.authorization.k8s.io/weave-net created
rolebinding.rbac.authorization.k8s.io/weave-net created
daemonset.apps/weave-net created
root@master:/home/ubuntu# kubectl get nodes -w
NAME STATUS ROLES AGE VERSION
master Ready control-plane 4m30s v1.27.2
worker Ready <none> 59s v1.27.2
^Croot@master:/home/ubuntu#
root@master:/home/ubuntu#
i-071686faa1457c0ea (kub1-master)
PublicIPs: 13.58.119.79 PrivateIPs: 172.31.7.239
CloudShell
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
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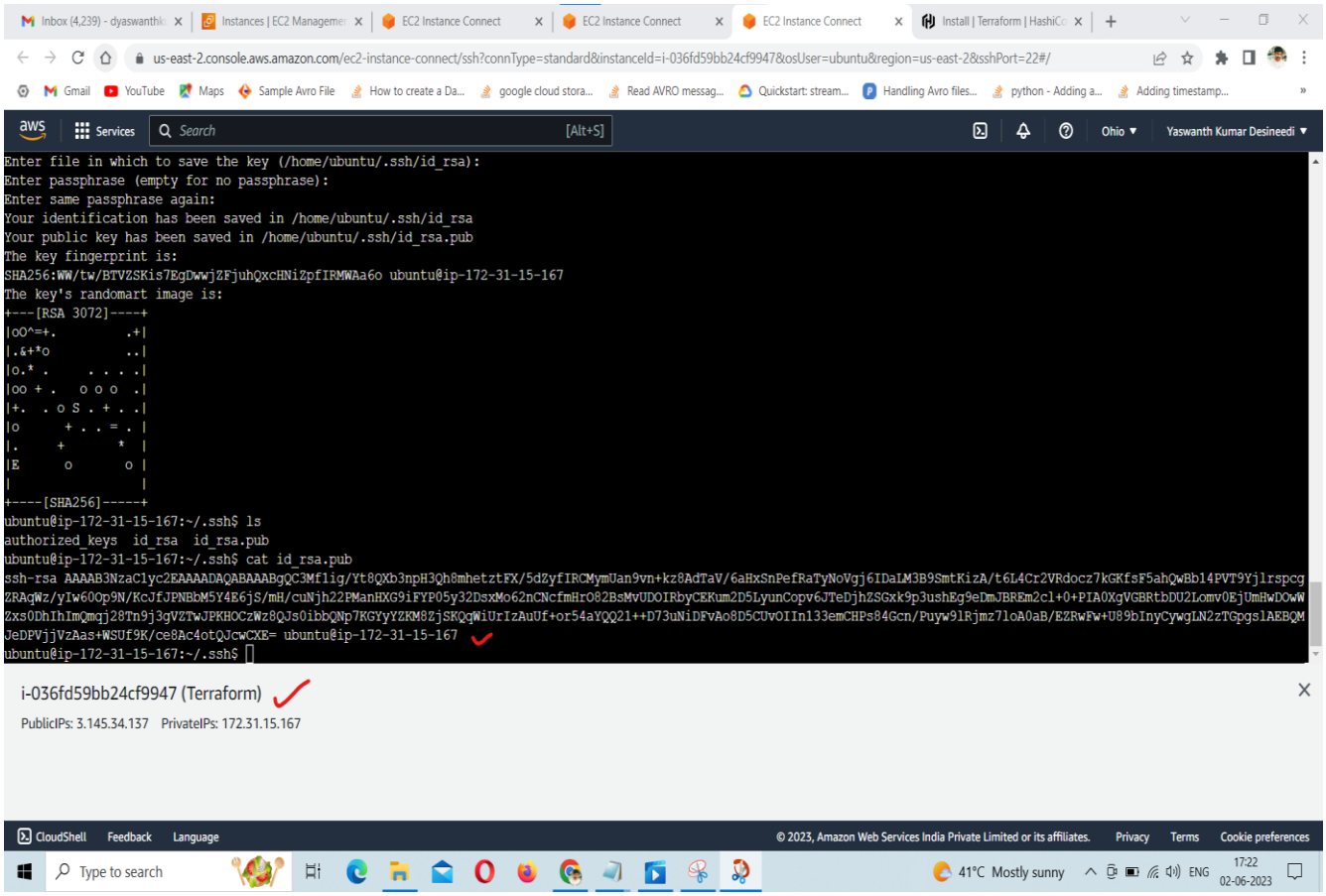
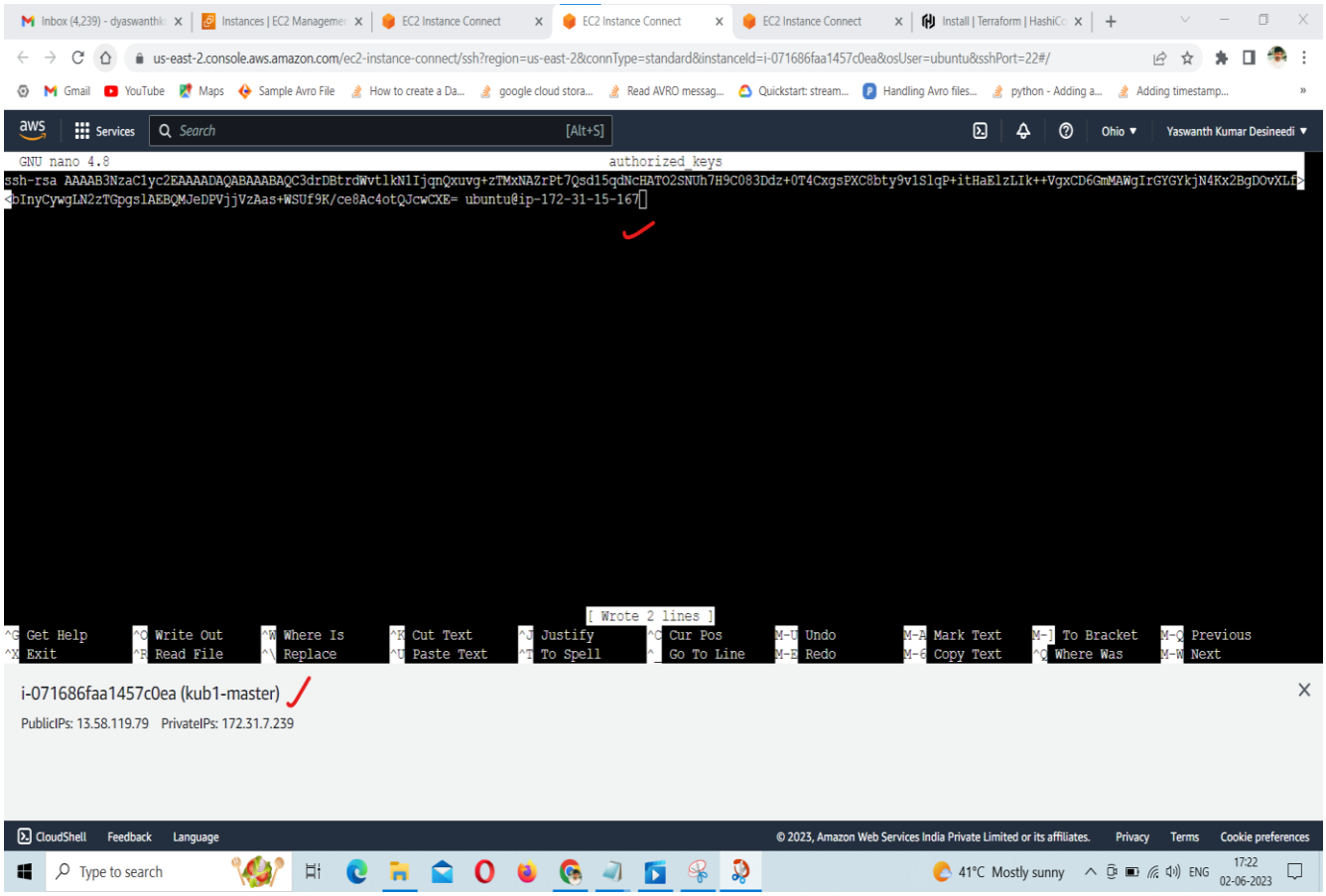
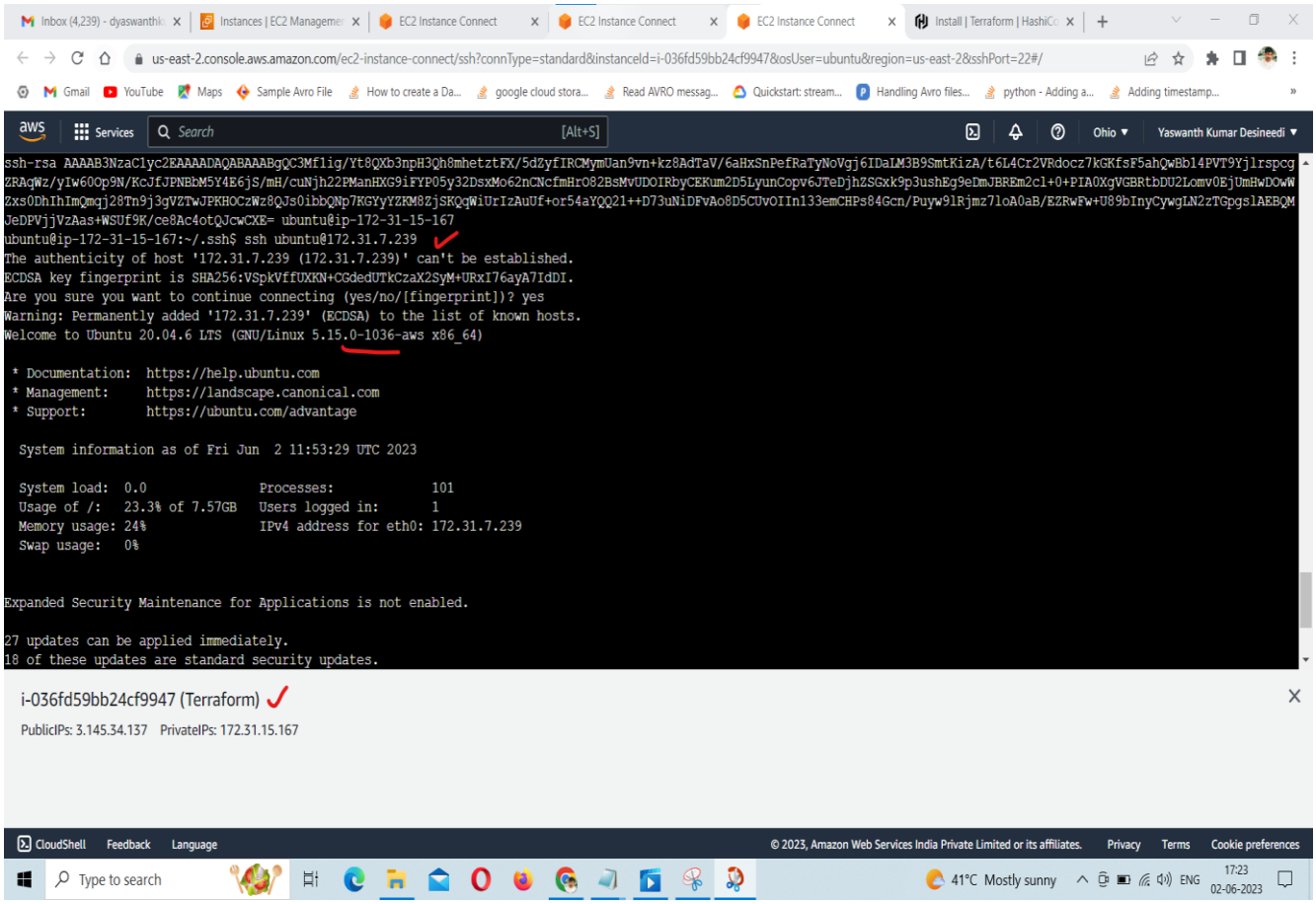
Terms
Cookie preferences
Type to search
40°C Partly sunny
ENG
17:46
02-06-2023



i-036fd59bb24cf9947 (Terraform)

PublicIPs: 3.145.34.137 PrivateIPs: 172.31.15.167


Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Install | Terraform | HashiCo
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-071686faa1457c0ea&osUser=ubuntu&sshPort=22#/
Gmail
YouTube
Maps
Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
aws
Services
Search
[Alt+S]
Ohio
Yaswanth Kumar Desineedi
GNU nano 4.8
authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQC3drDBtrdWvtlkN1IjqnQxuvg+zTMxNAZrPt7Qsd15qdNcHATO2SNUh7H9C083Ddz+0T4CxgsPXC8bty9v1SlqP+itHaElzLIk++VgxCD6GmMAWgIrGYGYkjN4Kx2BgDOvXLf
bInyCywgLN2zTGpgslAEBQMJeDPVjjVzAas+WSUf9K/ce8Ac4otQJcwCXE= ubuntu@ip-172-31-15-167
[Wrote 2 lines]
^G Get Help
^O Write Out
^W Where Is
^K Cut Text
^J Justify
^C Cur Pos
M-U Undo
M-A Mark Text
M-] To Bracket
M-Q Previous
^X Exit
^R Read File
^\ Replace
^U Paste Text
^T To Spell
^_ Go To Line
M-E Redo
M-6 Copy Text
^Q Where Was
M-W Next
i-071686faa1457c0ea (kub1-master)
PublicIPs: 13.58.119.79 PrivateIPs: 172.31.7.239
CloudShell
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences
Type to search
41°C Mostly sunny
ENG
17:22
02-06-2023


Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Install | Terraform | HashiCo
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-036fd59bb24cf9947&osUser=ubuntu&region=us-east-2&sshPort=22#/
Gmail
YouTube
Maps
Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
aws
Services
Search
[Alt+S]
Ohio
Yaswanth Kumar Desineedi
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABgQC3Mflig/Yt8QXb3npH3Qh8mhetztFX/5dZyfIRCMymUan9vn+kz8AdTaV/6aHxSnPefRaTyNoVgj6IDaLM3B9SmtKizA/t6L4Cr2VRdocz7kGKfsF5ahQwBb14PVT9YjlrspcgZRAqWz/yIw60Op9N/KcJfJPNBbM5Y4E6jS/mH/cuNjh22PManHXG9iFYP05y32DsxMo62nCNcfmHrO82BsMvUDOIRbyCEKum2D5LyunCopv6JTeDjhZSGxk9p3ushEg9eDmJBREm2cl+0+PIA0XgVGBRtbDU2Lomv0EjUmHwDOwWZxs0DhIhImQmqj28Tn9j3gVZTwJPKHOCzWz8QJs0ibbQNp7KGYyYZKM8ZjSKQqWiUrIzAuUf+or54aYQQ21++D73uNiDFvAo8D5CUvOIIn133emCHPs84Gcn/Puyw9lRjmz7loA0aB/EZRwFw+U89bInyCywgLN2zTGpgslAEBQMJeDPVjjVzAas+WSUf9K/ce8Ac4otQJcwCXE= ubuntu@ip-172-31-15-167
ubuntu@ip-172-31-15-167:~/.ssh$ ssh ubuntu@172.31.7.239
The authenticity of host '172.31.7.239 (172.31.7.239)' can't be established.
ECDSA key fingerprint is SHA256:VSpkVffUXKN+CGdedUTkCzaX2SyM+URxI76ayA7IdDI.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '172.31.7.239' (ECDSA) to the list of known hosts.
Welcome to Ubuntu 20.04.6 LTS (GNU/Linux 5.15.0-1036-aws x86_64)
* Documentation: https://help.ubuntu.com
* Management: https://landscape.canonical.com
* Support: https://ubuntu.com/advantage
System information as of Fri Jun 2 11:53:29 UTC 2023
System load: 0.0
Processes: 101
Usage of /: 23.3% of 7.57GB
Users logged in: 1
Memory usage: 24%
IPv4 address for eth0: 172.31.7.239
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
27 updates can be applied immediately.
18 of these updates are standard security updates.
i-036fd59bb24cf9947 (Terraform)
PublicIPs: 3.145.34.137 PrivateIPs: 172.31.15.167
CloudShell
Feedback
Language
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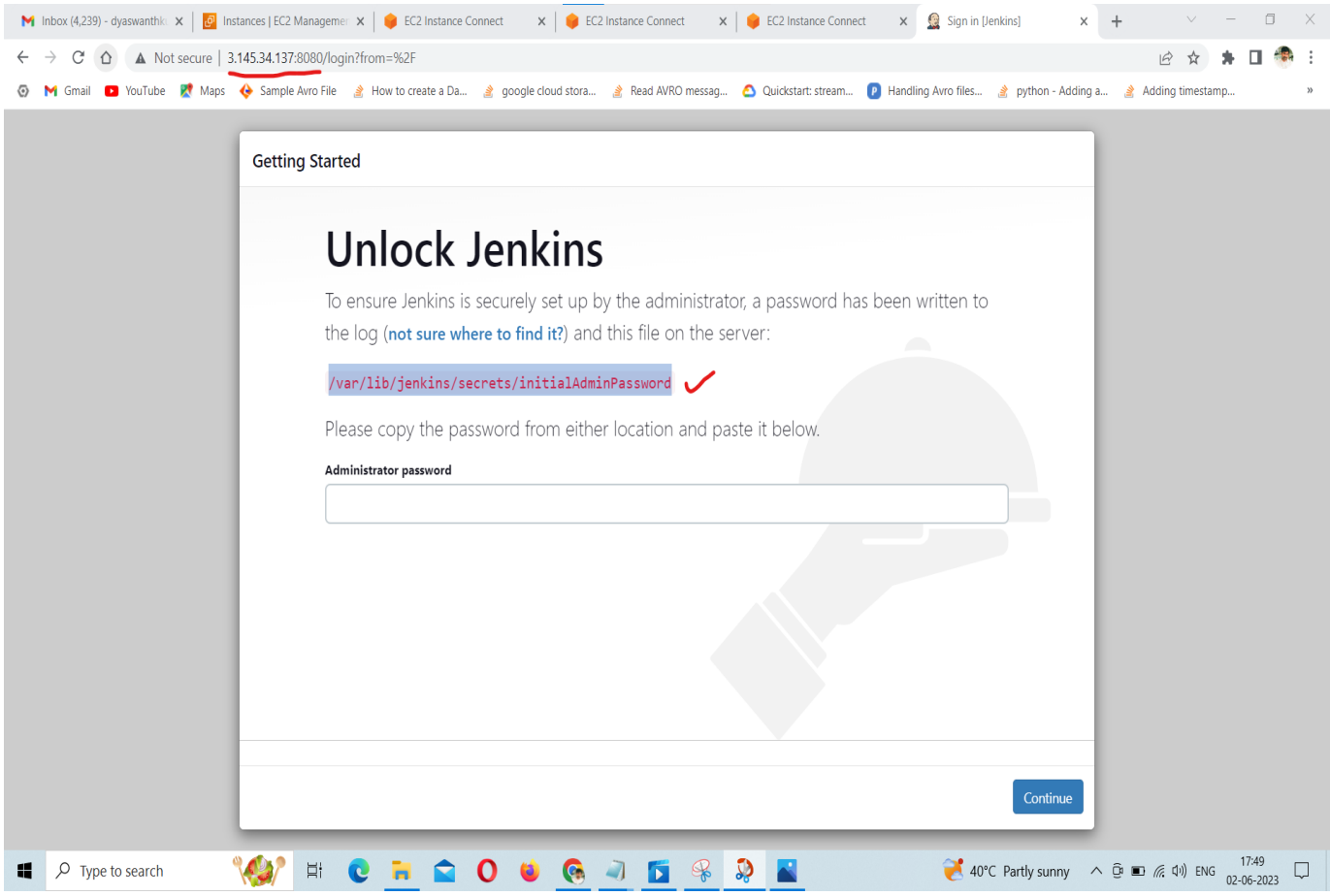
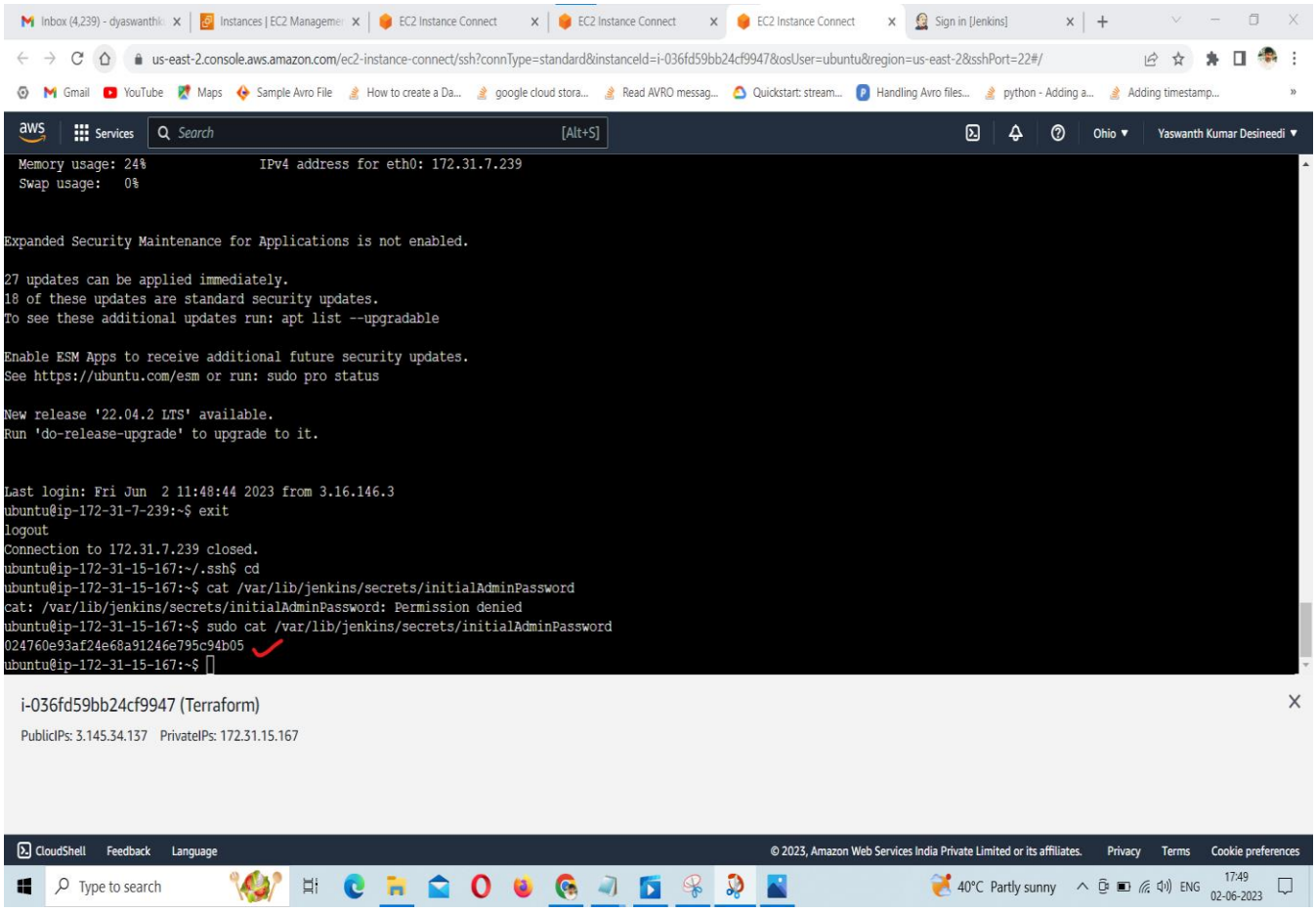
Privacy
Terms
Cookie preferences
Type to search
41°C Mostly sunny
ENG
17:23
02-06-2023


Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Sign in [Jenkins]
Not secure | 3.145.34.137:8080/login?from=%2F
Gmail
YouTube
Maps
Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
Getting Started
Unlock Jenkins
To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:
/var/lib/jenkins/secrets/initialAdminPassword
Please copy the password from either location and paste it below.
Administrator password
Continue
Type to search
40°C Partly sunny
ENG
17:49
02-06-2023


Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Sign in [Jenkins]
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-036fd59bb24cf9947&osUser=ubuntu&region=us-east-2&sshPort=22#/
Gmail
YouTube
Maps
Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
aws
Services
Search
[Alt+S]
Ohio
Yaswanth Kumar Desineedi
Memory usage: 24%
IPv4 address for eth0: 172.31.7.239
Swap usage: 0%
Expanded Security Maintenance for Applications is not enabled.
27 updates can be applied immediately.
18 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status
New release '22.04.2 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Fri Jun 2 11:48:44 2023 from 3.16.146.3
ubuntu@ip-172-31-7-239:~$ exit
logout
Connection to 172.31.7.239 closed.
ubuntu@ip-172-31-15-167:~/.ssh$ cd
ubuntu@ip-172-31-15-167:~$ cat /var/lib/jenkins/secrets/initialAdminPassword
cat: /var/lib/jenkins/secrets/initialAdminPassword: Permission denied
ubuntu@ip-172-31-15-167:~$ sudo cat /var/lib/jenkins/secrets/initialAdminPassword
024760e93af24e68a91246e795c94b05
ubuntu@ip-172-31-15-167:~$
i-036fd59bb24cf9947 (Terraform)
PublicIPs: 3.145.34.137 PrivateIPs: 172.31.15.167
CloudShell
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
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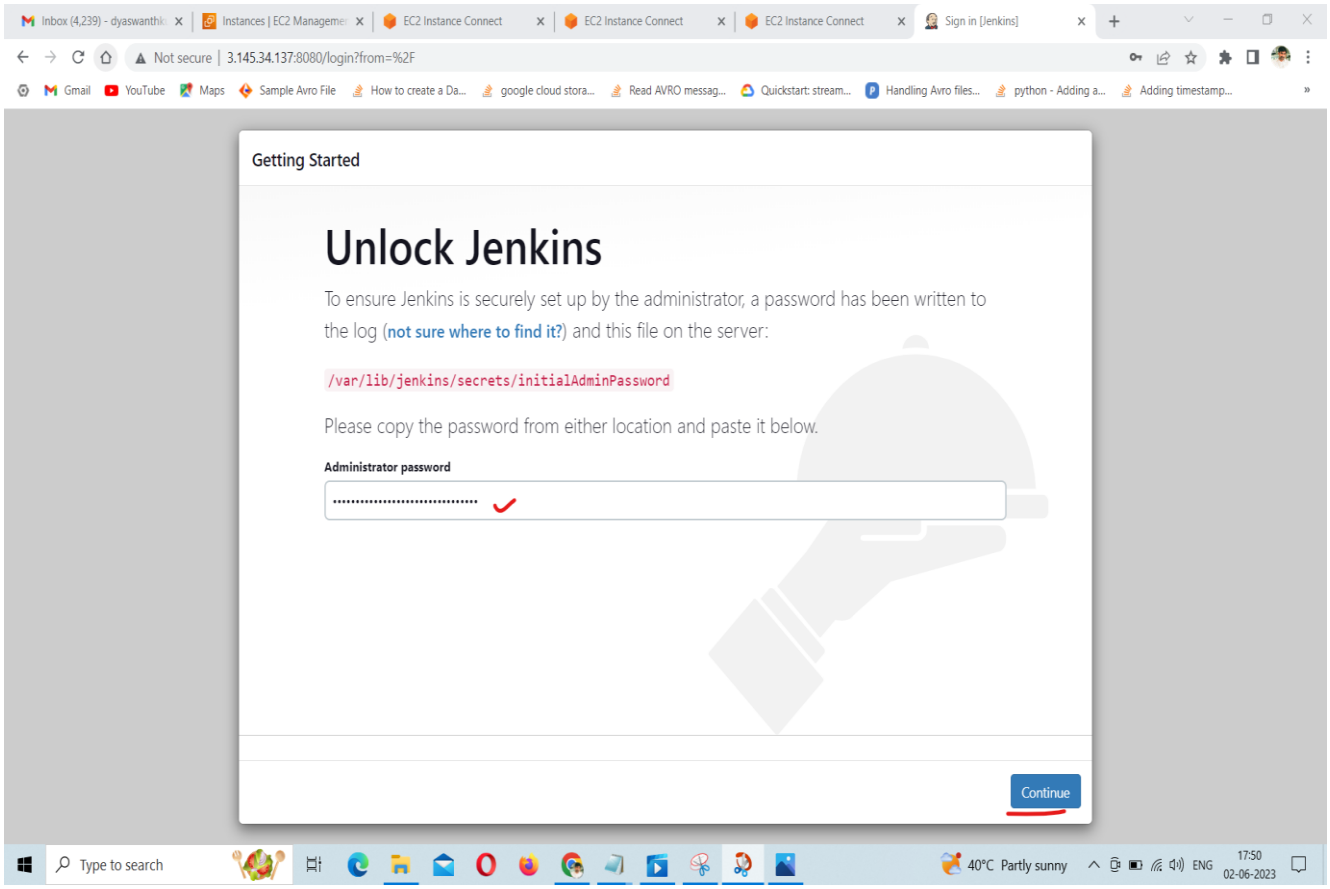
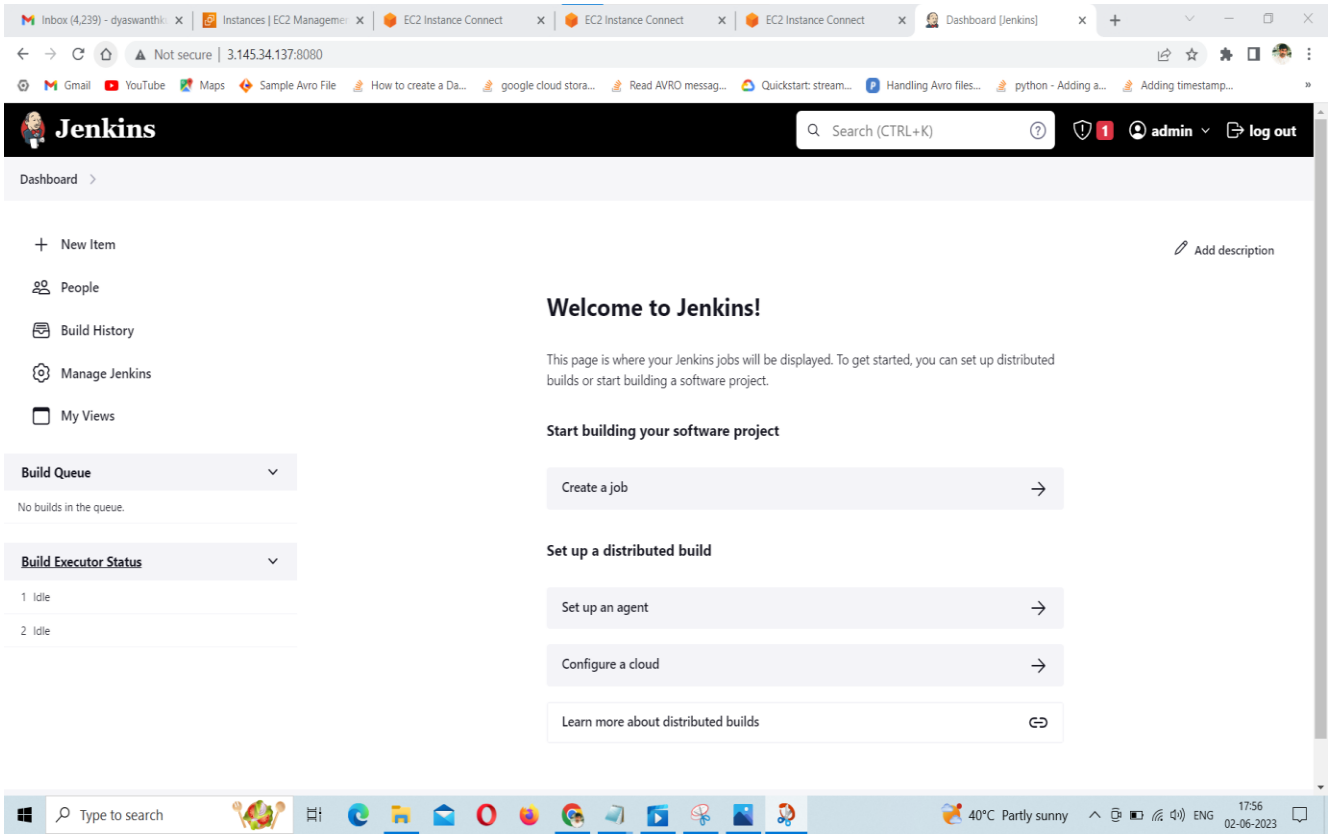
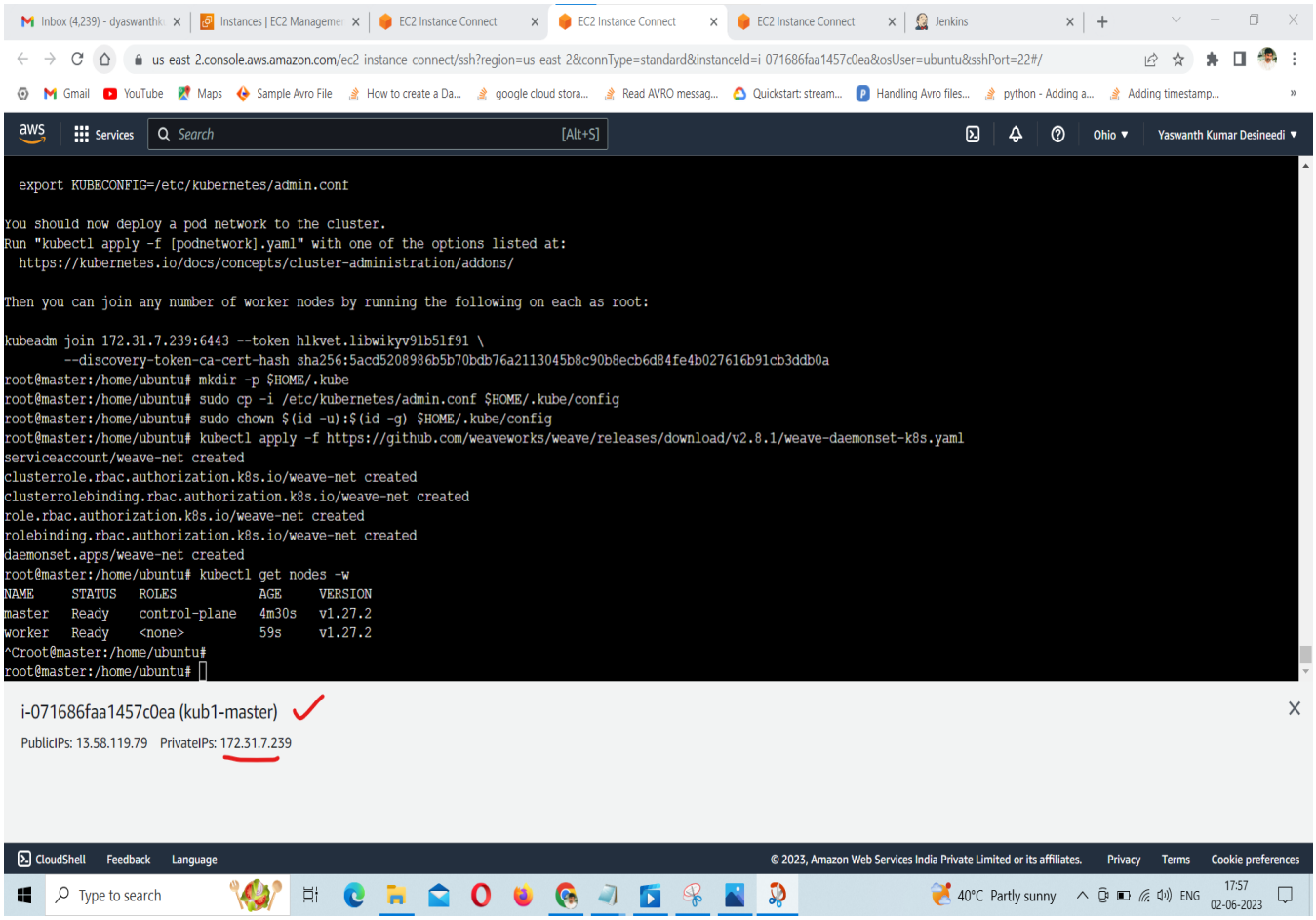
Terms
Cookie preferences
Type to search
40°C Partly sunny
ENG
17:49
02-06-2023


Getting Started
Unlock Jenkins
To ensure Jenkins is securely set up by the administrator, a password has been written to the log (not sure where to find it?) and this file on the server:
/var/lib/jenkins/secrets/initialAdminPassword
Please copy the password from either location and paste it below.
Administrator password
Continue
Not secure | 3.145.34.137:8080/login?from=%2F
Type to search
40°C Partly sunny
ENG
17:50
02-06-2023


Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Dashboard [Jenkins]
Not secure | 3.145.34.137:8080
Gmail
YouTube
Maps
Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
Jenkins
Search (CTRL+K)
admin
log out
Dashboard
New Item
People
Build History
Manage Jenkins
My Views
Add description
Welcome to Jenkins!
This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.
Start building your software project
Create a job
Set up a distributed build
Set up an agent
Configure a cloud
Learn more about distributed builds
Build Queue
No builds in the queue.
Build Executor Status
1 Idle
2 Idle
Type to search
40°C Partly sunny
ENG
17:56
02-06-2023


Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Jenkins
us-east-2.console.aws.amazon.com/ec2-instance-connect/ssh?region=us-east-2&connType=standard&instanceId=i-071686faa1457c0ea&osUser=ubuntu&sshPort=22#/
Gmail
YouTube
Maps
Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
aws
Services
Search
[Alt+S]
Ohio
Yaswanth Kumar Desineedi
export KUBECONFIG=/etc/kubernetes/admin.conf
You should now deploy a pod network to the cluster.
Run "kubectl apply -f [podnetwork].yaml" with one of the options listed at:
https://kubernetes.io/docs/concepts/cluster-administration/addons/
Then you can join any number of worker nodes by running the following on each as root:
kubeadm join 172.31.7.239:6443 --token h1kvet.libwikyv91b5lf91 \
--discovery-token-ca-cert-hash sha256:5acd5208986b5b70bdb76a2113045b8c90b8ecb6d84fe4b027616b91cb3ddb0a
root@master:/home/ubuntu# mkdir -p $HOME/.kube
root@master:/home/ubuntu# sudo cp -i /etc/kubernetes/admin.conf $HOME/.kube/config
root@master:/home/ubuntu# sudo chown $(id -u):$(id -g) $HOME/.kube/config
root@master:/home/ubuntu# kubectl apply -f https://github.com/weaveworks/weave/releases/download/v2.8.1/weave-daemonset-k8s.yaml
serviceaccount/weave-net created
clusterrole.rbac.authorization.k8s.io/weave-net created
clusterrolebinding.rbac.authorization.k8s.io/weave-net created
role.rbac.authorization.k8s.io/weave-net created
rolebinding.rbac.authorization.k8s.io/weave-net created
daemonset.apps/weave-net created
root@master:/home/ubuntu# kubectl get nodes -w
NAME STATUS ROLES AGE VERSION
master Ready control-plane 4m30s v1.27.2
worker Ready <none> 59s v1.27.2
^Croot@master:/home/ubuntu#
root@master:/home/ubuntu#
i-071686faa1457c0ea (kub1-master)
PublicIPs: 13.58.119.79 PrivateIPs: 172.31.7.239
CloudShell
Feedback
Language
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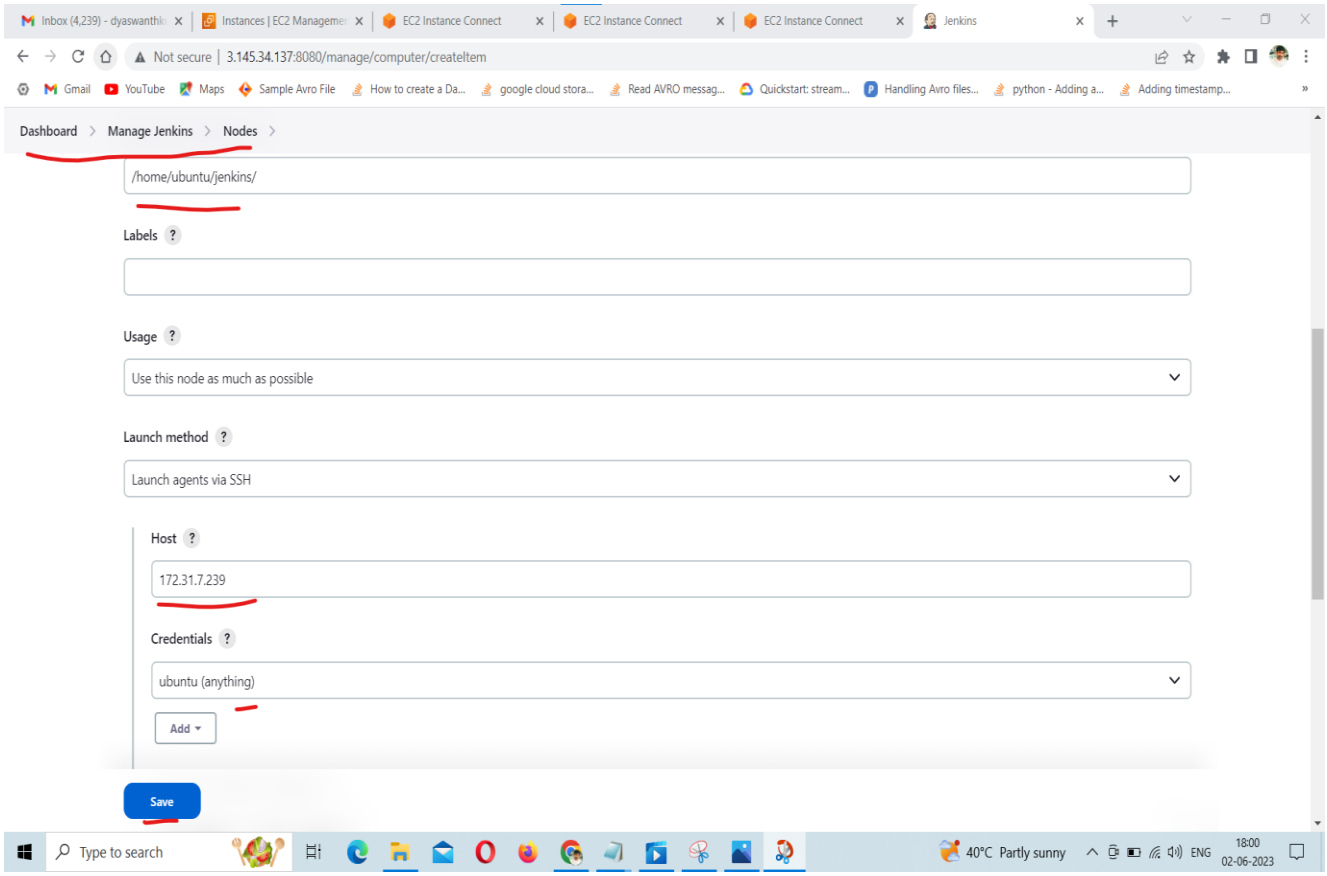
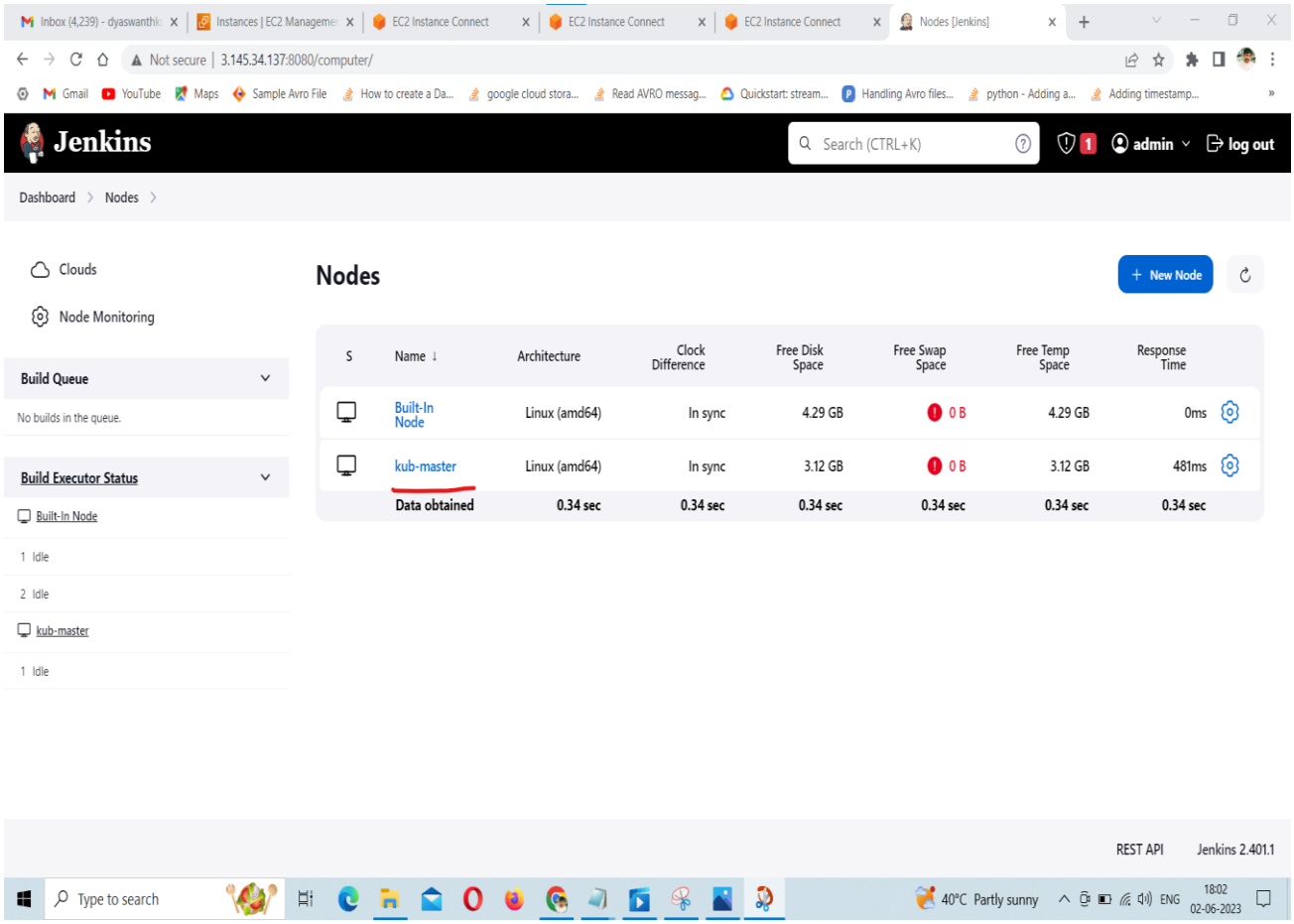
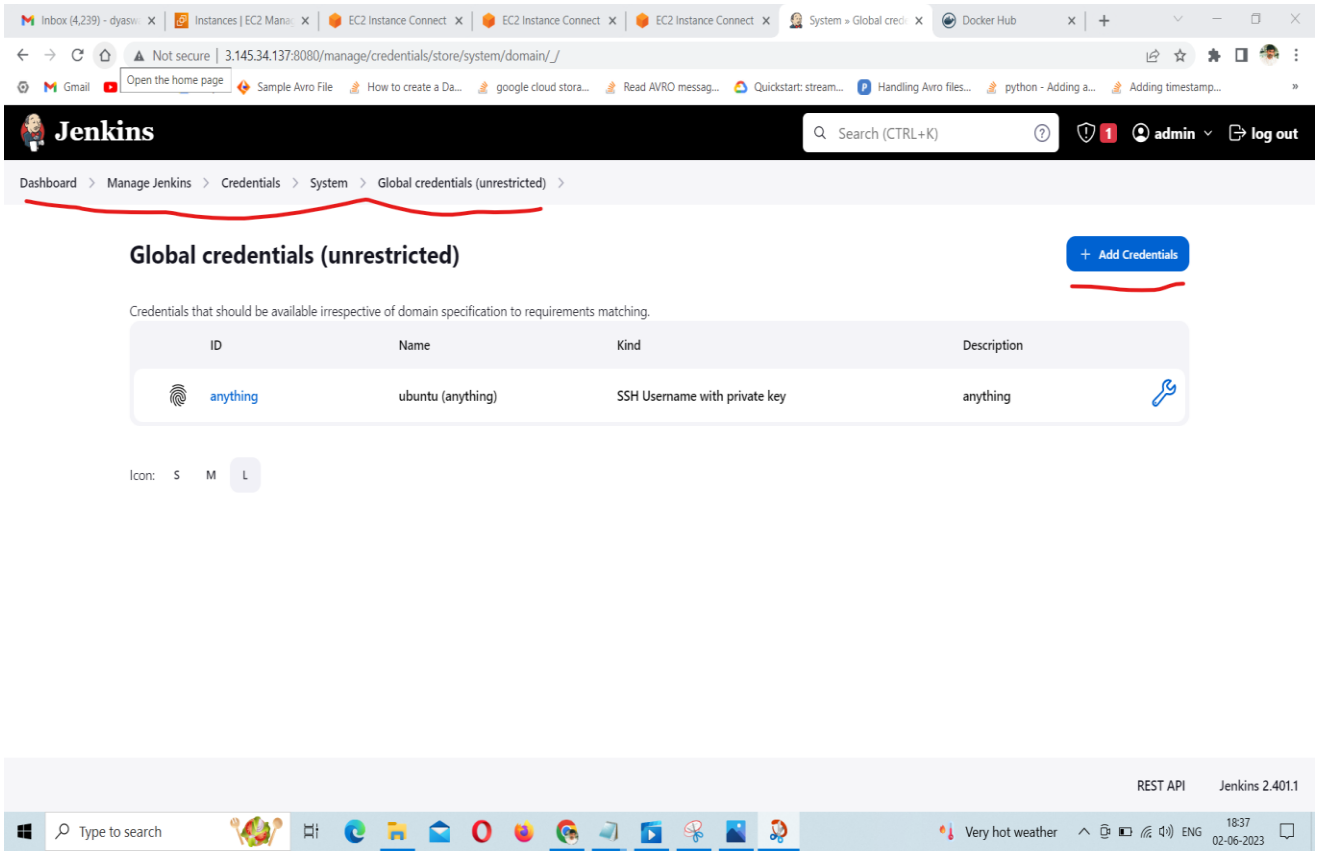
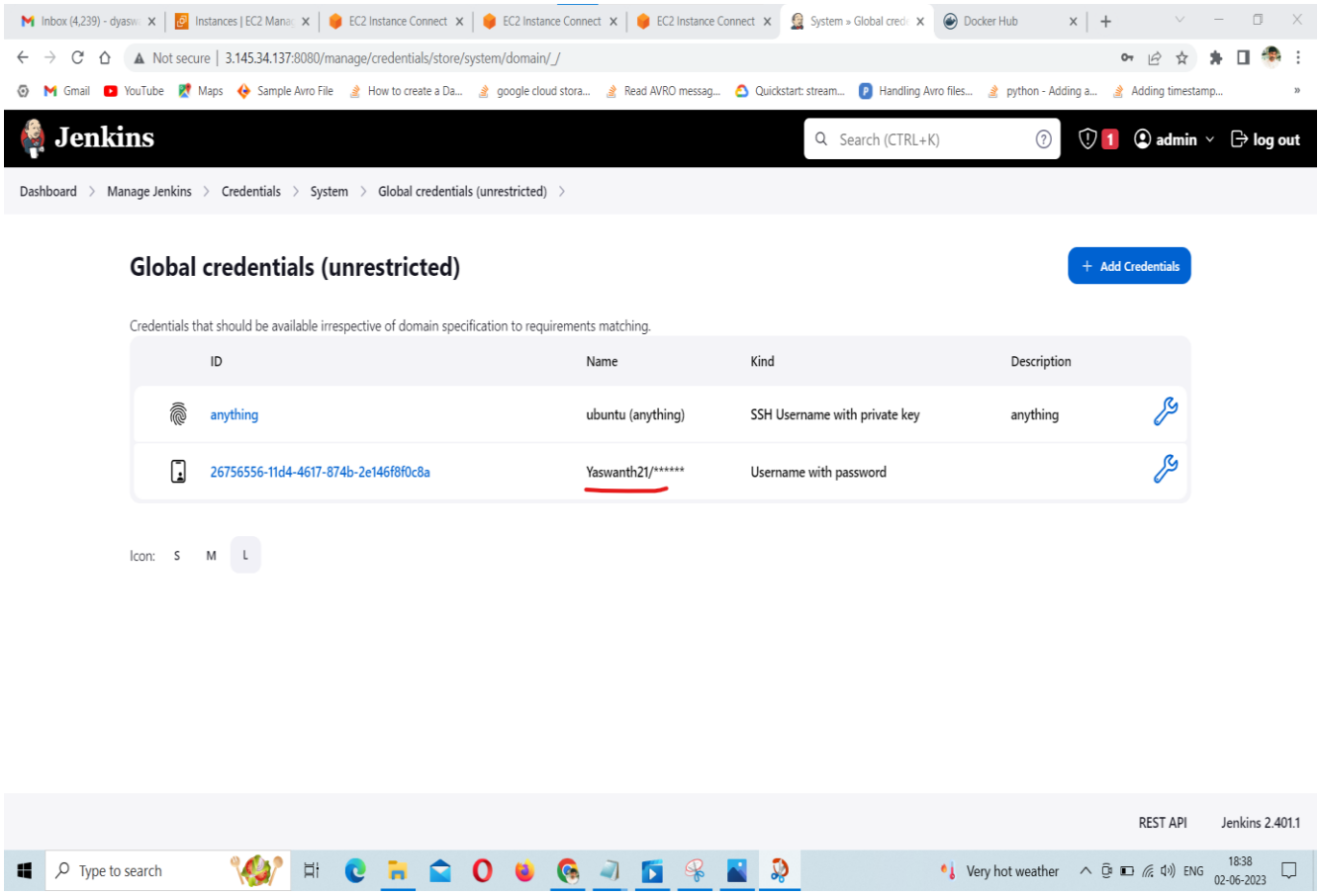
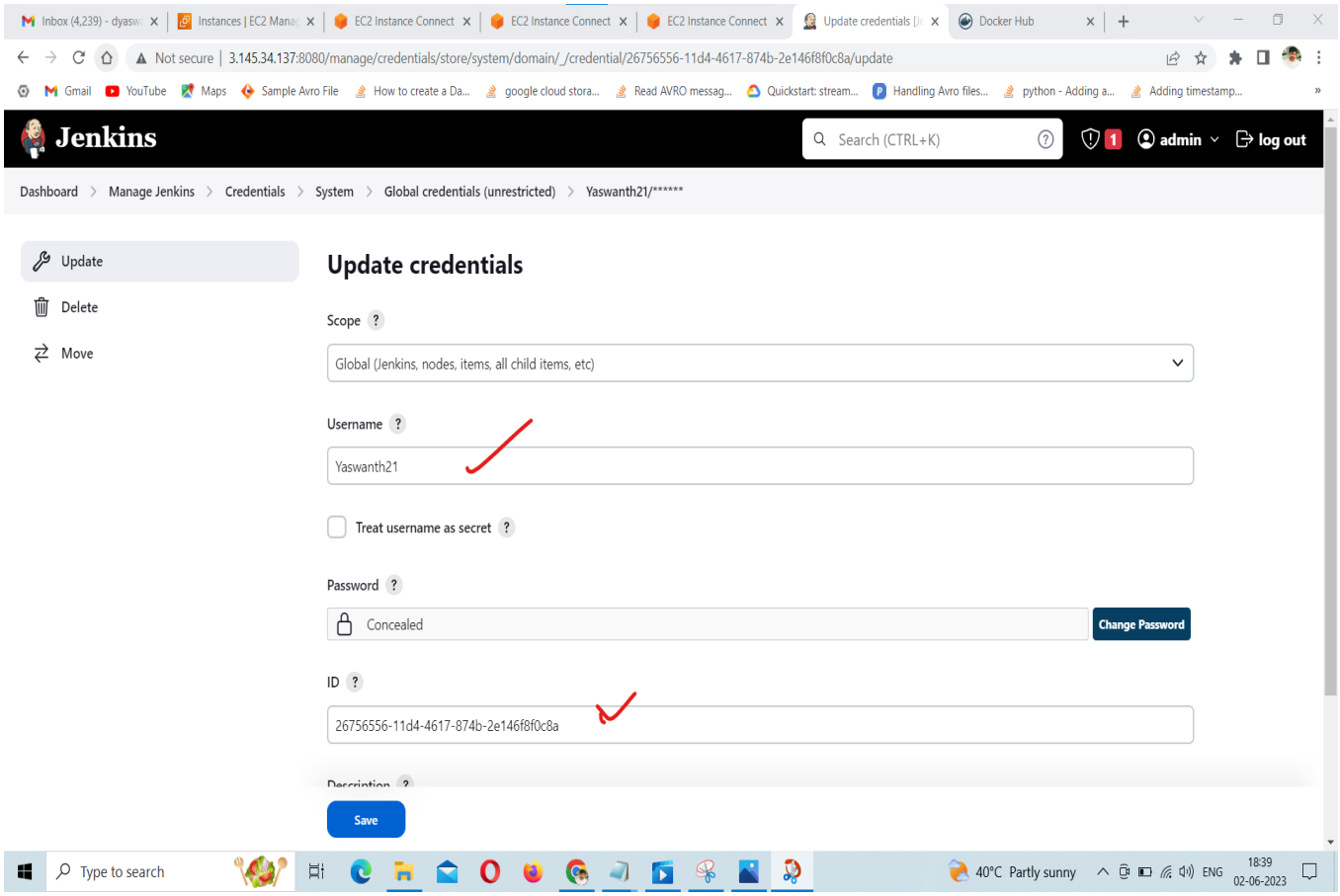
Privacy
Terms
Cookie preferences
Type to search
40°C Partly sunny
ENG
17:57
02-06-2023

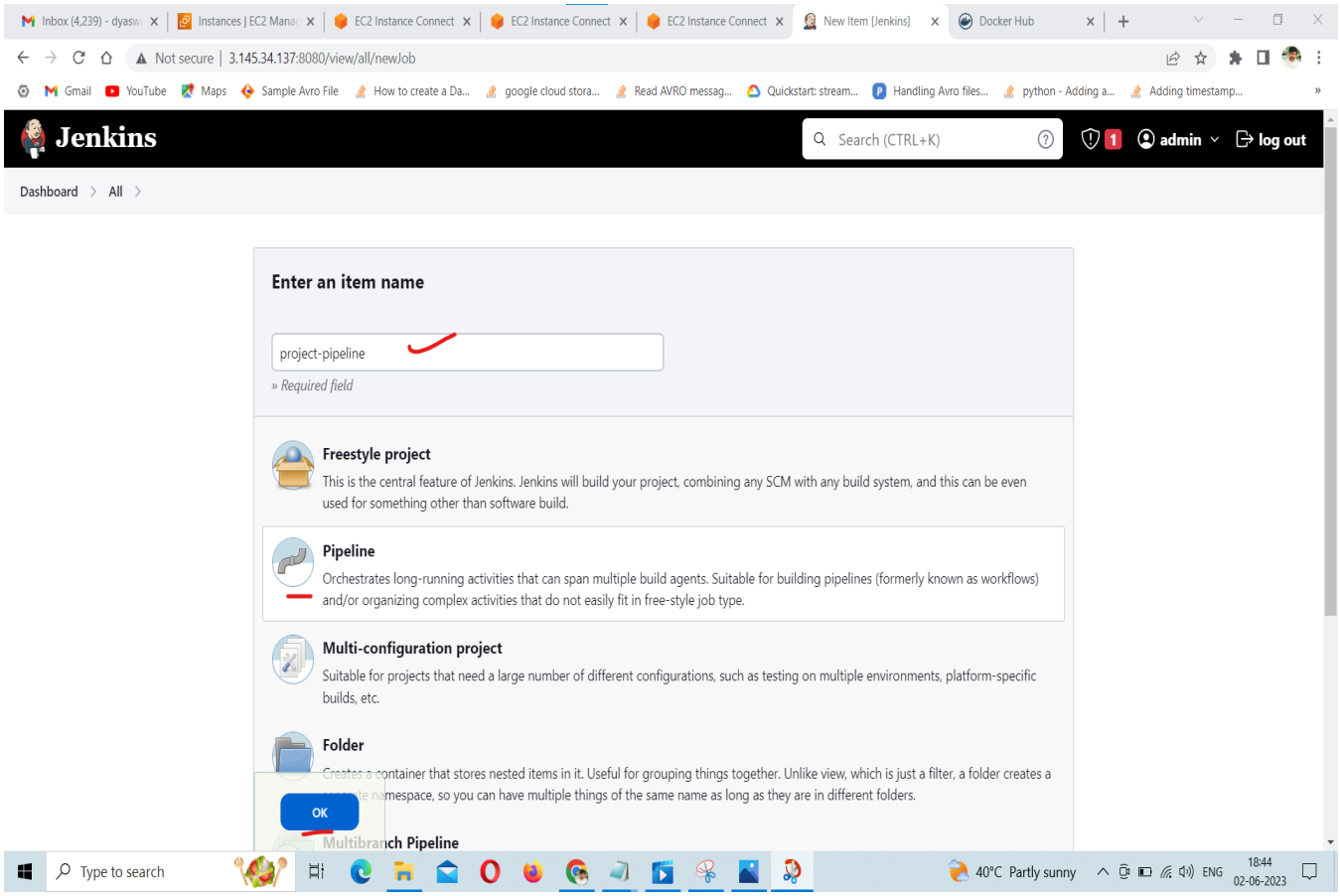

Not secure | 3.145.34.137:8080/manage/computer/createItem
Dashboard > Manage Jenkins > Nodes >
/home/ubuntu/jenkins/
Labels
Usage
Use this node as much as possible
Launch method
Launch agents via SSH
Host
172.31.7.239
Credentials
ubuntu (anything)
Add
Save
Type to search
40°C Partly sunny
ENG
18:00
02-06-2023

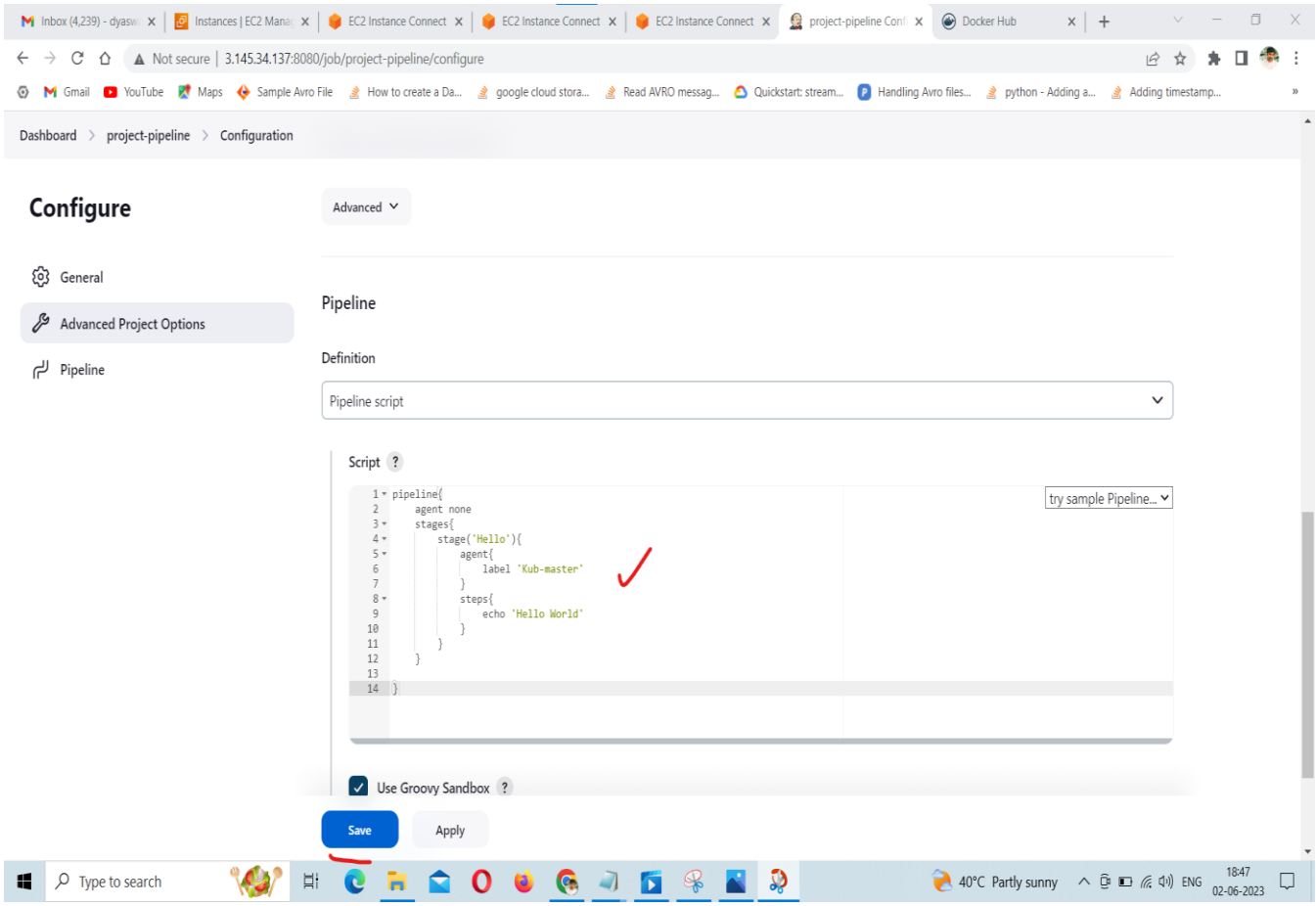

Inbox (4,239) - dyaswanthk
Instances | EC2 Manageme
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
Nodes [Jenkins]
Not secure | 3.145.34.137:8080/computer/
Gmail
YouTube
Maps
Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
Jenkins
Search (CTRL+K)
admin
log out
Dashboard
Nodes
Clouds
Node Monitoring
Build Queue
No builds in the queue.
Build Executor Status
Built-In Node
1 Idle
2 Idle
kub-master
1 Idle
Nodes
New Node
S
Name
Architecture
Clock Difference
Free Disk Space
Free Swap Space
Free Temp Space
Response Time
Built-In Node
Linux (amd64)
In sync
4.29 GB
0 B
4.29 GB
0ms
kub-master
Linux (amd64)
In sync
3.12 GB
0 B
3.12 GB
481ms
Data obtained
0.34 sec
0.34 sec
0.34 sec
0.34 sec
0.34 sec
0.34 sec
REST API
Jenkins 2.401.1
Type to search
40°C Partly sunny
ENG
18:02
02-06-2023

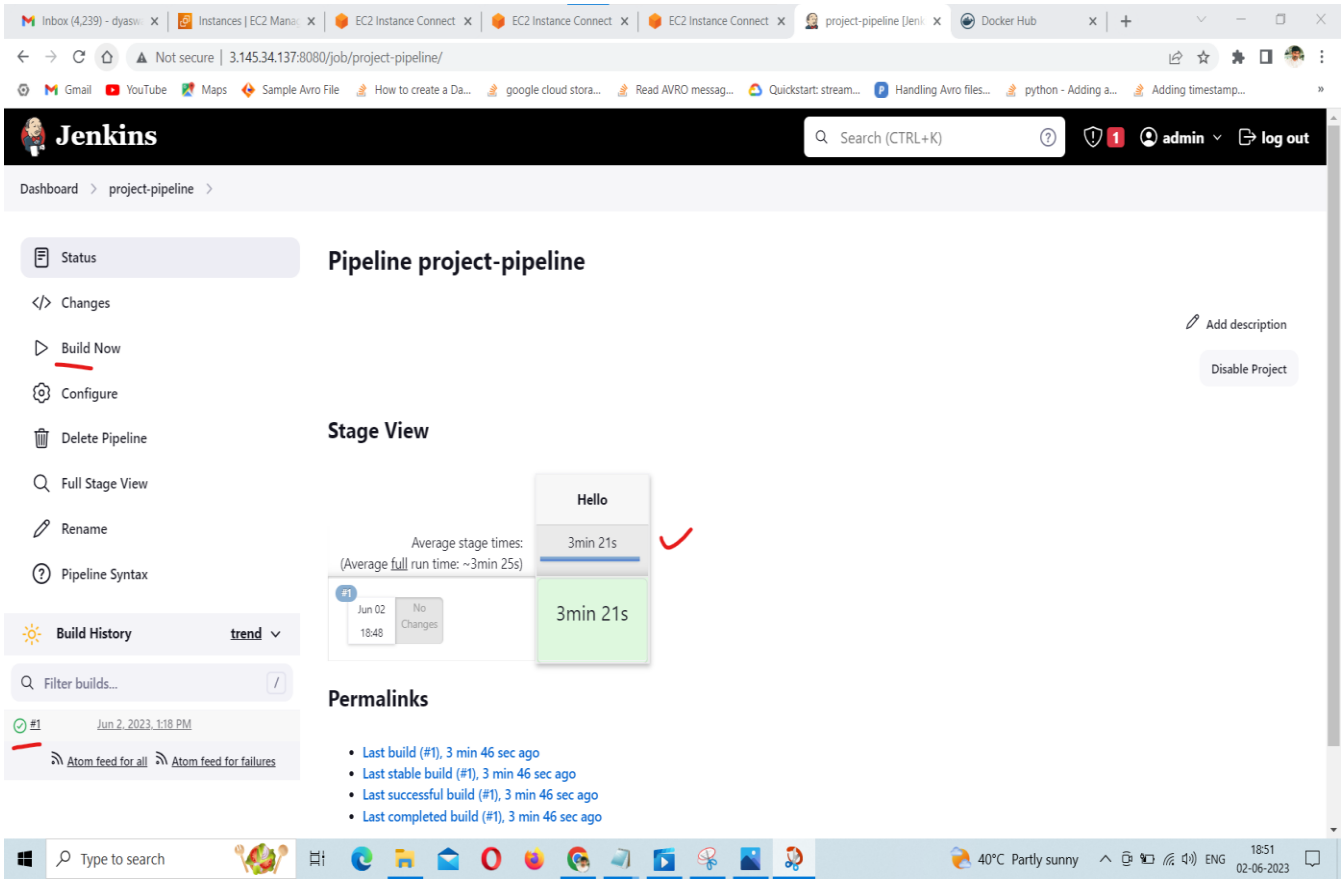

Not secure | 3.145.34.137:8080/manage/credentials/store/system/domain/_/
Open the home page
Jenkins
Search (CTRL+K)
admin
log out
Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) >
Global credentials (unrestricted)
+ Add Credentials
Credentials that should be available irrespective of domain specification to requirements matching.
ID
Name
Kind
Description
anything
ubuntu (anything)
SSH Username with private key
anything
Icon: S M L
REST API
Jenkins 2.401.1
Type to search
Very hot weather
ENG
18:37
02-06-2023

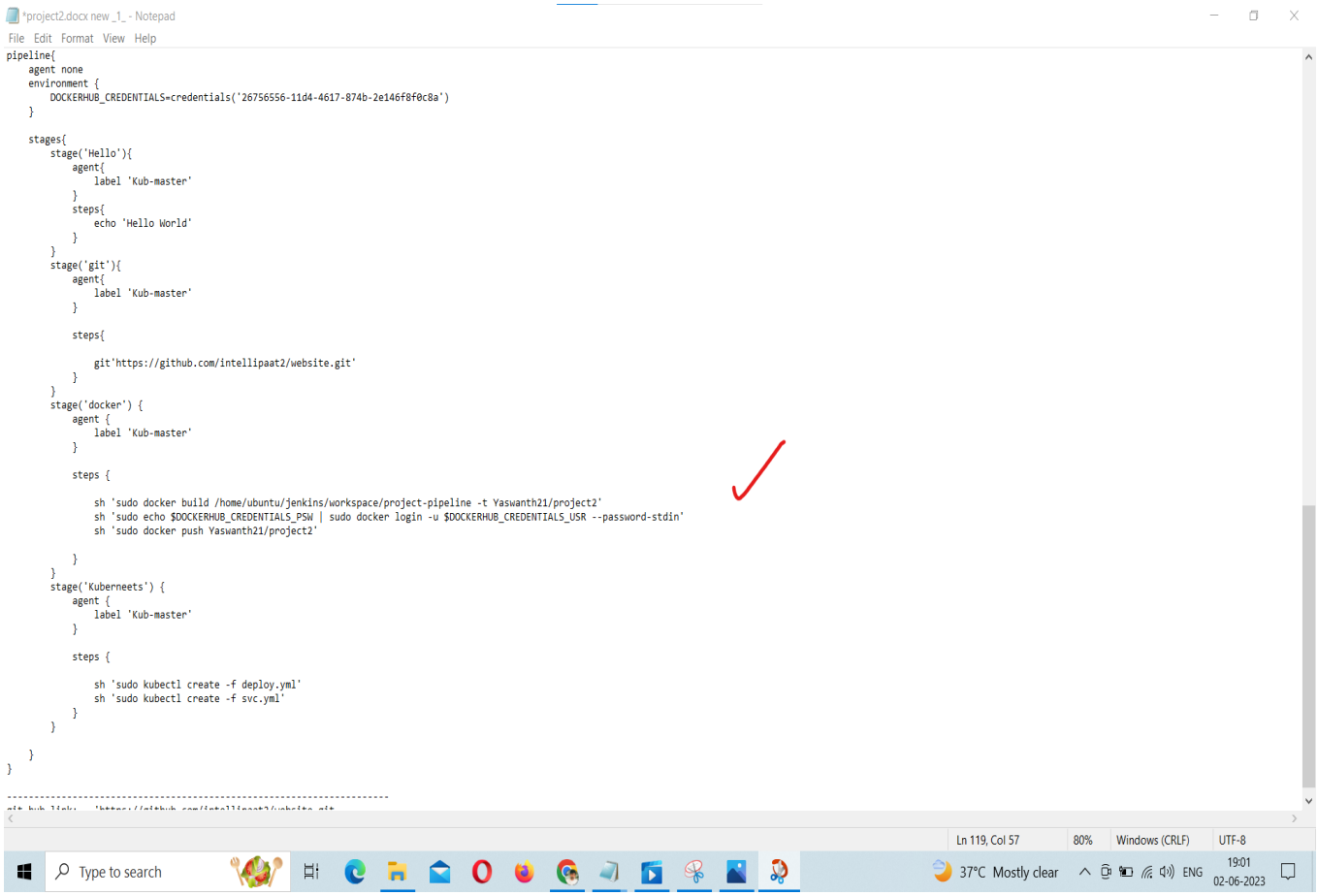

Jenkins
Search (CTRL+K)
admin
log out
Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted)
Global credentials (unrestricted)
+ Add Credentials
Credentials that should be available irrespective of domain specification to requirements matching.
ID
Name
Kind
Description
anything
ubuntu (anything)
SSH Username with private key
anything
26756556-11d4-4617-874b-2e146f8f0c8a
Yaswanth21/******
Username with password
Icon: S M L
REST API
Jenkins 2.401.1
Type to search
Very hot weather
ENG
18:38
02-06-2023

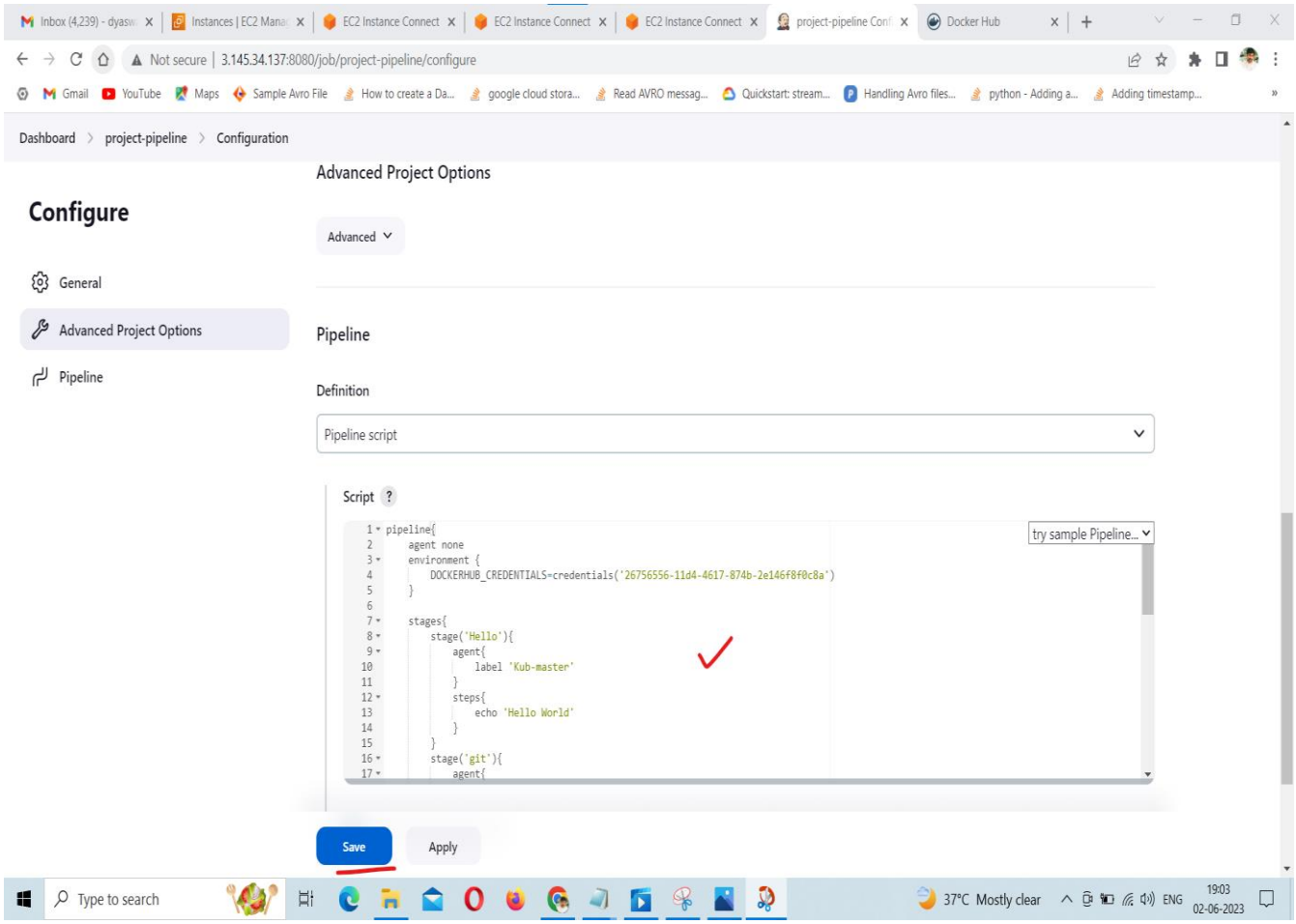

Jenkins
Search (CTRL+K)
admin
log out
Dashboard > Manage Jenkins > Credentials > System > Global credentials (unrestricted) > Yaswanth21/******
Update
Delete
Move
Update credentials
Scope
Global (Jenkins, nodes, items, all child items, etc)
Username
Yaswanth21
Treat username as secret
Password
Concealed
Change Password
ID
26756556-11d4-4617-874b-2e146f8f0c8a
Save

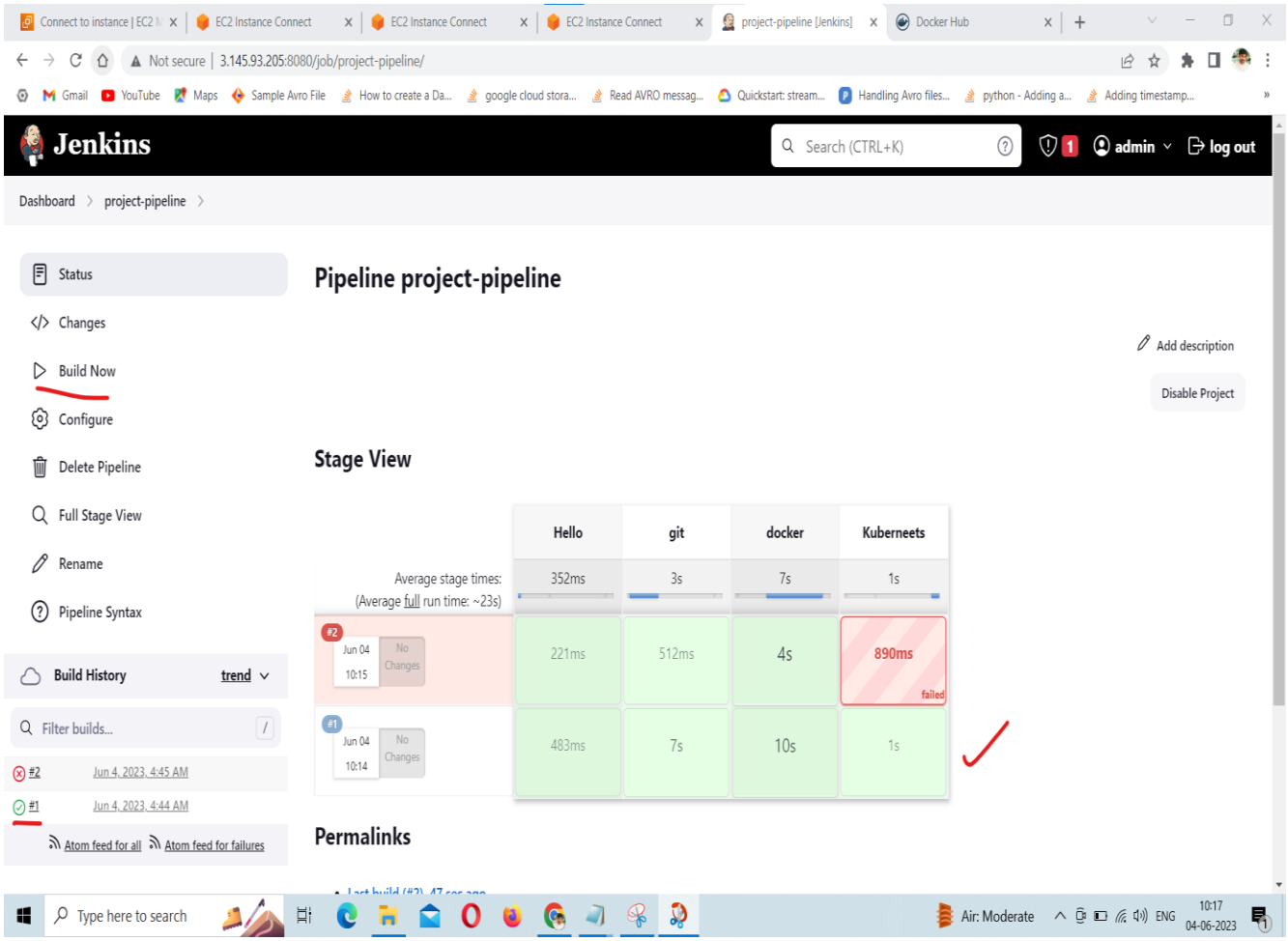

Jenkins
Search (CTRL+K)
admin
log out
Dashboard
All
Enter an item name
project-pipeline
» Required field
Freestyle project
This is the central feature of Jenkins. Jenkins will build your project, combining any SCM with any build system, and this can be even used for something other than software build.
Pipeline
Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.
Multi-configuration project
Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.
Folder
OK
Type to search
40°C Partly sunny
ENG
18:44
02-06-2023

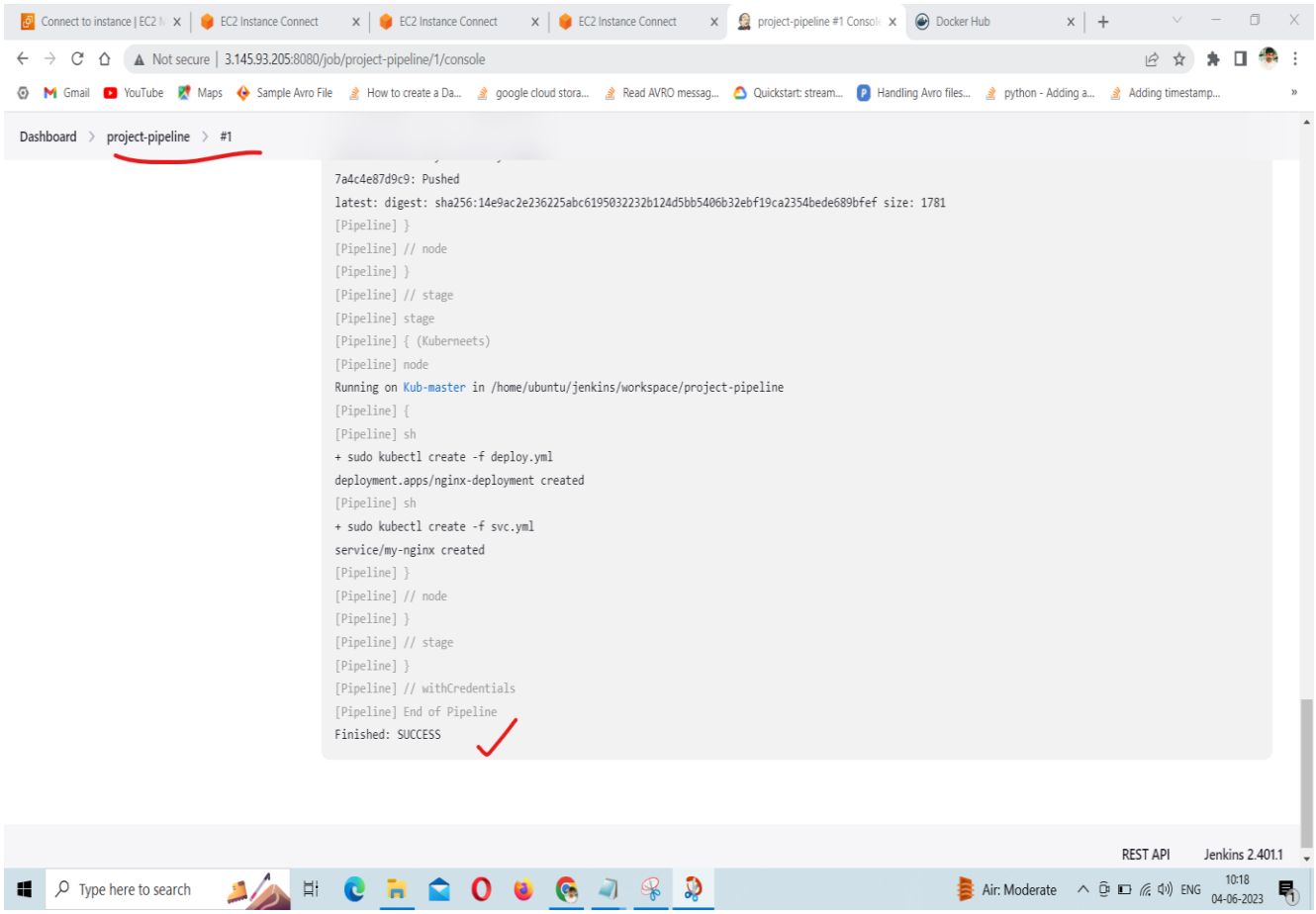

Not secure | 3.145.34.137:8080/job/project-pipeline/configure
Dashboard > project-pipeline > Configuration
Configure
Advanced
General
Advanced Project Options
Pipeline
Pipeline
Definition
Pipeline script
Script
try sample Pipeline...
pipeline{
agent none
stages{
stage('Hello'){
agent{
label 'Kub-master'
}
steps{
echo 'Hello World'
}
}
}
}
Use Groovy Sandbox
Save
Apply
Type to search
40°C Partly sunny
ENG
18:47
02-06-2023

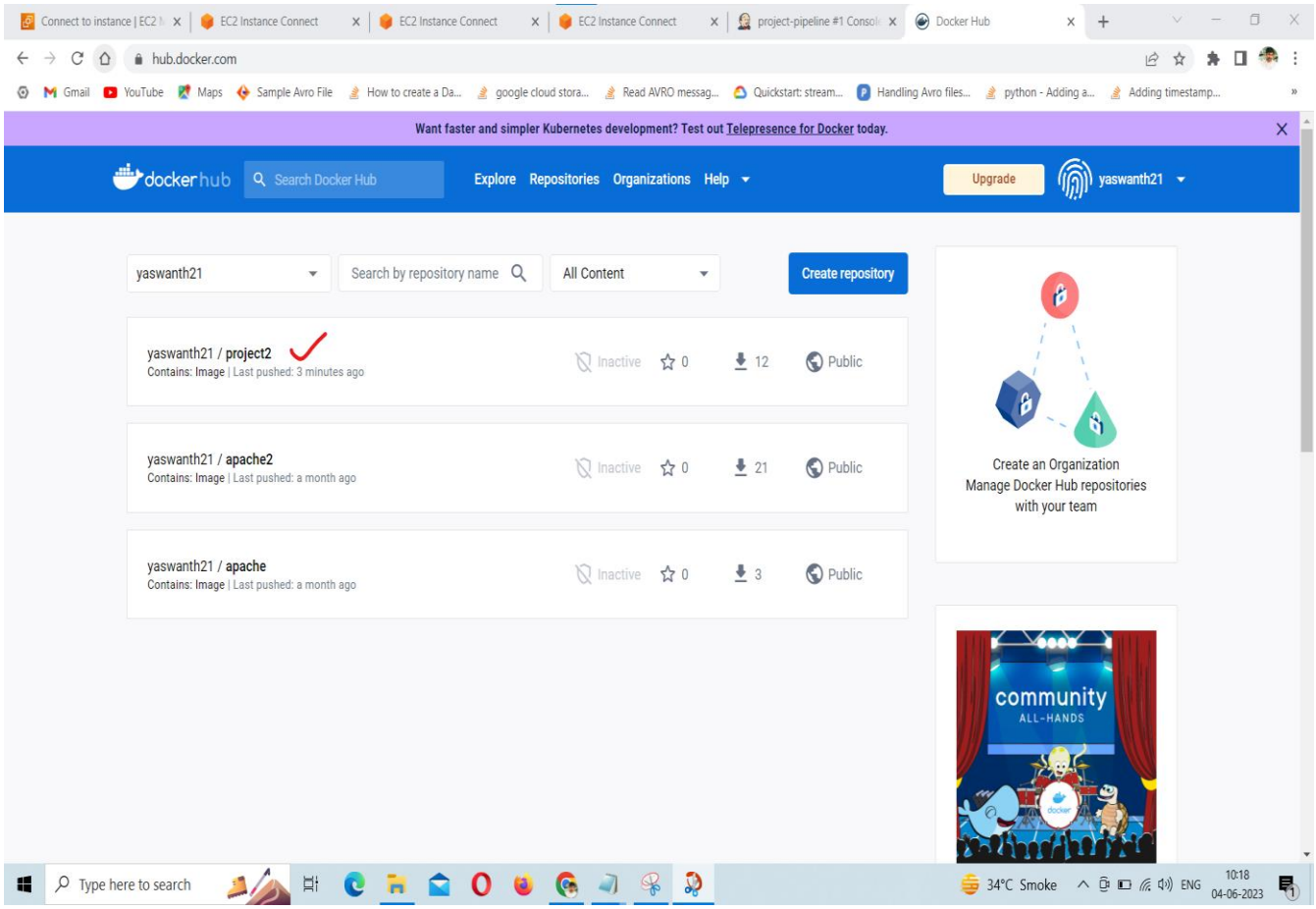

Jenkins
Search (CTRL+K)
admin
log out
Dashboard
project-pipeline
Status
Changes
Build Now
Configure
Delete Pipeline
Full Stage View
Rename
Pipeline Syntax
Build History
trend
Filter builds...
#1
Jun 2, 2023, 1:18 PM
Atom feed for all
Atom feed for failures
Pipeline project-pipeline
Add description
Disable Project
Stage View
Hello
Average stage times:
(Average full run time: ~3min 25s)
3min 21s
#1
Jun 02
18:48
No Changes
3min 21s
Permalinks
Last build (#1), 3 min 46 sec ago
Last stable build (#1), 3 min 46 sec ago
Last successful build (#1), 3 min 46 sec ago
Last completed build (#1), 3 min 46 sec ago
Type to search
40°C Partly sunny
ENG
18:51
02-06-2023


*project2.docx new _1_ - Notepad
File Edit Format View Help
pipeline{
agent none
environment {
DOCKERHUB_CREDENTIALS=credentials('26756556-11d4-4617-874b-2e146f8f0c8a')
}
stages{
stage('Hello'){
agent{
label 'Kub-master'
}
steps{
echo 'Hello World'
}
}
stage('git'){
agent{
label 'Kub-master'
}
steps{
git'https://github.com/intellipaat2/website.git'
}
}
stage('docker') {
agent {
label 'Kub-master'
}
steps {
sh 'sudo docker build /home/ubuntu/jenkins/workspace/project-pipeline -t Yaswanth21/project2'
sh 'sudo echo $DOCKERHUB_CREDENTIALS_PSW | sudo docker login -u $DOCKERHUB_CREDENTIALS_USR --password-stdin'
sh 'sudo docker push Yaswanth21/project2'
}
}
stage('Kuberneets') {
agent {
label 'Kub-master'
}
steps {
sh 'sudo kubectl create -f deploy.yml'
sh 'sudo kubectl create -f svc.yml'
}
}
}
}
Ln 119, Col 57
80%
Windows (CRLF)
UTF-8
Type to search
37°C Mostly clear
ENG
19:01
02-06-2023


Inbox (4,239) - dyasw
Instances | EC2 Mana
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
project-pipeline Conf
Docker Hub
Not secure | 3.145.34.137:8080/job/project-pipeline/configure
Gmail
YouTube
Maps
Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
Dashboard
project-pipeline
Configuration
Configure
General
Advanced Project Options
Pipeline
Advanced Project Options
Advanced
Pipeline
Definition
Pipeline script
Script
try sample Pipeline...
pipeline{
agent none
environment {
DOCKERHUB_CREDENTIALS=credentials('26756556-11d4-4617-874b-2e146f8f0c8a')
}
stages{
stage('Hello'){
agent{
label 'Kub-master'
}
steps{
echo 'Hello World'
}
}
stage('git'){
agent{
Save
Apply
Type to search
37°C Mostly clear
ENG
19:03
02-06-2023


Connect to instance | EC2
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
project-pipeline [Jenkins]
Docker Hub
Not secure | 3.145.93.205:8080/job/project-pipeline/
Gmail
YouTube
Maps
Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
Jenkins
Search (CTRL+K)
admin
log out
Dashboard
project-pipeline
Status
Changes
Build Now
Configure
Delete Pipeline
Full Stage View
Rename
Pipeline Syntax
Build History
trend
Filter builds...
#2
Jun 4, 2023, 4:45 AM
#1
Jun 4, 2023, 4:44 AM
Atom feed for all
Atom feed for failures
Pipeline project-pipeline
Add description
Disable Project
Stage View
Hello
git
docker
Kuberneets
Average stage times:
(Average full run time: ~23s)
352ms
3s
7s
1s
#2
Jun 04
10:15
No Changes
221ms
512ms
4s
890ms
failed
#1
Jun 04
10:14
No Changes
483ms
7s
10s
1s
Permalinks
Type here to search
Air: Moderate
ENG
10:17
04-06-2023


Connect to instance | EC2 M
EC2 Instance Connect
EC2 Instance Connect
EC2 Instance Connect
project-pipeline #1 Consol
Docker Hub
Not secure | 3.145.93.205:8080/job/project-pipeline/1/console
Gmail
YouTube
Maps
Sample Avro File
How to create a Da...
google cloud stora...
Read AVRO messag...
Quickstart: stream...
Handling Avro files...
python - Adding a...
Adding timestamp...
Dashboard
project-pipeline
#1
7a4c4e87d9c9: Pushed
latest: digest: sha256:14e9ac2e236225abc6195032232b124d5bb5406b32ebf19ca2354bede689bfef size: 1781
[Pipeline] }
[Pipeline] // node
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Kuberneets)
[Pipeline] node
Running on Kub-master in /home/ubuntu/jenkins/workspace/project-pipeline
[Pipeline] {
[Pipeline] sh
+ sudo kubectl create -f deploy.yml
deployment.apps/nginx-deployment created
[Pipeline] sh
+ sudo kubectl create -f svc.yml
service/my-nginx created
[Pipeline] }
[Pipeline] // node
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withCredentials
[Pipeline] End of Pipeline
Finished: SUCCESS
REST API
Jenkins 2.401.1
Type here to search
Air: Moderate
ENG
10:18
04-06-2023


Want faster and simpler Kubernetes development? Test out Telepresence for Docker today.
docker hub
Search Docker Hub
Explore
Repositories
Organizations
Help
Upgrade
yaswanth21
yaswanth21
Search by repository name
All Content
Create repository
yaswanth21 / project2
Contains: Image | Last pushed: 3 minutes ago
Inactive
0
12
Public
yaswanth21 / apache2
Contains: Image | Last pushed: a month ago
Inactive
0
21
Public
yaswanth21 / apache
Contains: Image | Last pushed: a month ago
Inactive
0
3
Public
Create an Organization
Manage Docker Hub repositories
with your team
community
ALL-HANDS
Type here to search
34°C Smoke
ENG
10:18
04-06-2023