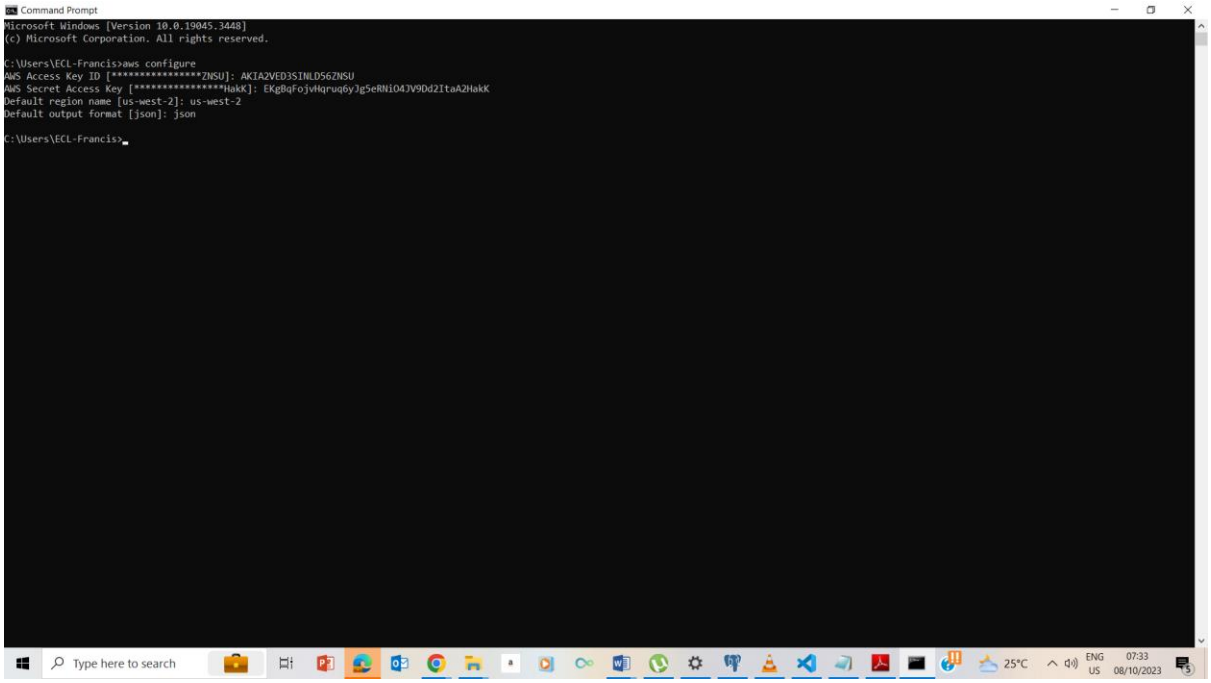
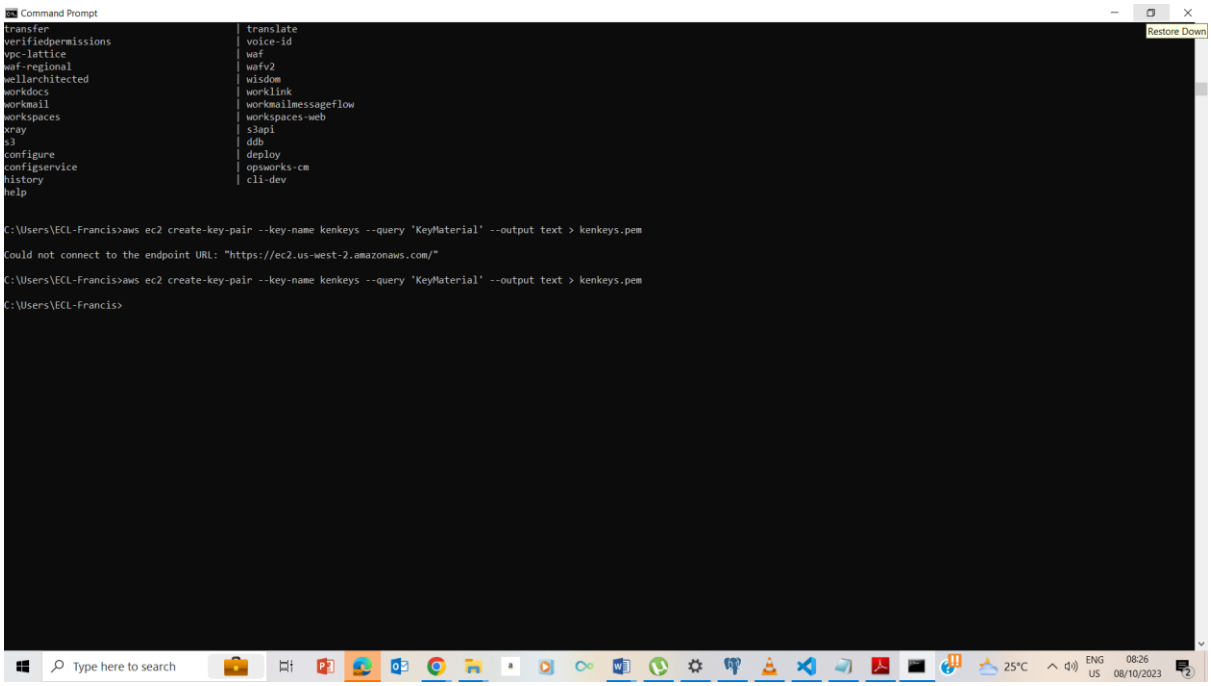
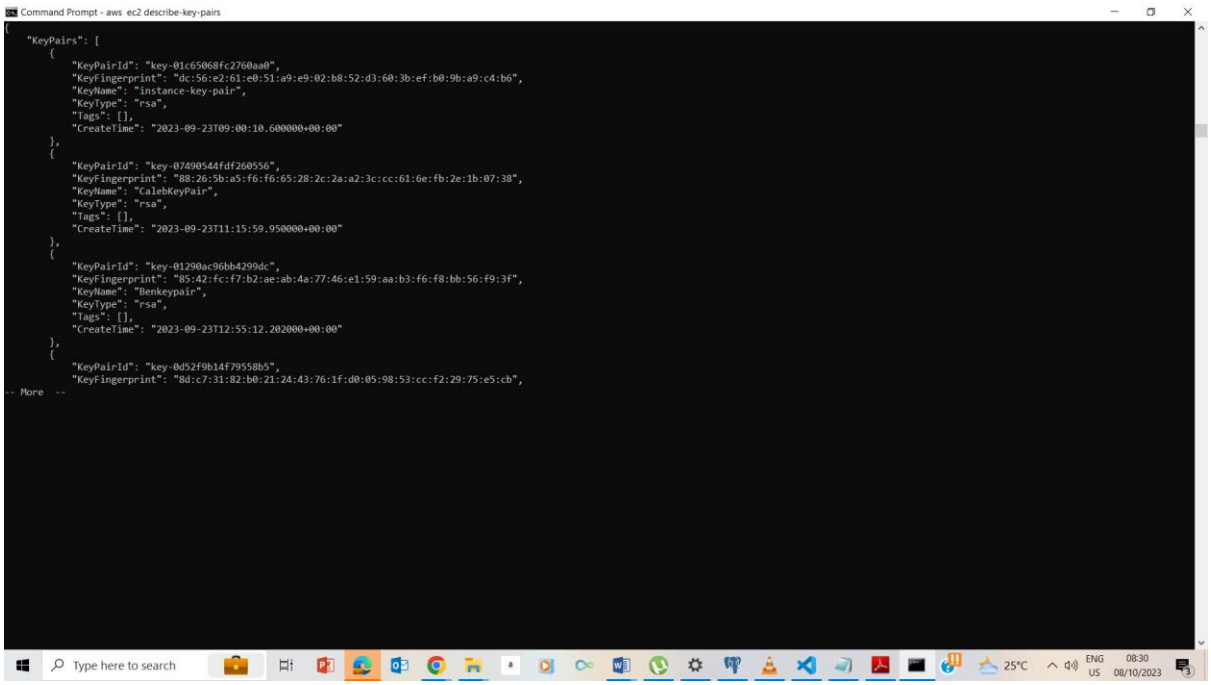
STEP 1 – Configure AWS Credentials, using the “aws configure” command and then proceeding to supply the “Access Key ID and Secret Access Key ID” as well as the region Region name of the AWS and default format.



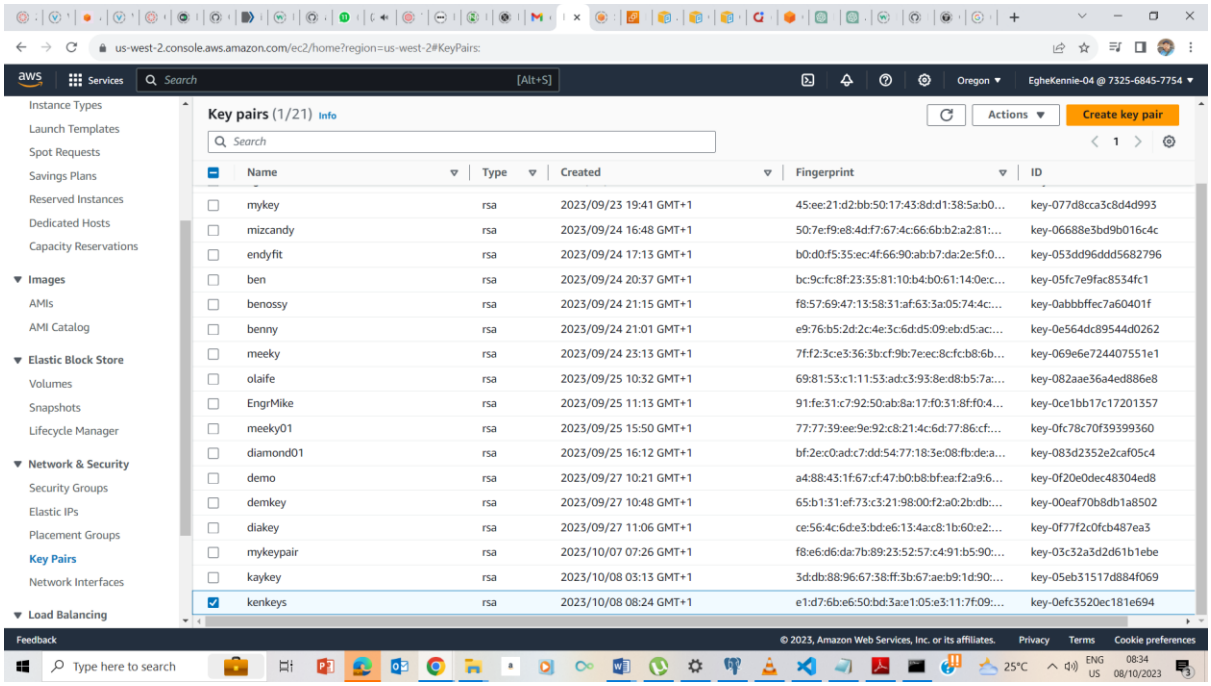
Create Key Pair



Describe Key Pairs with the command aws ec2 describe-key-pairs

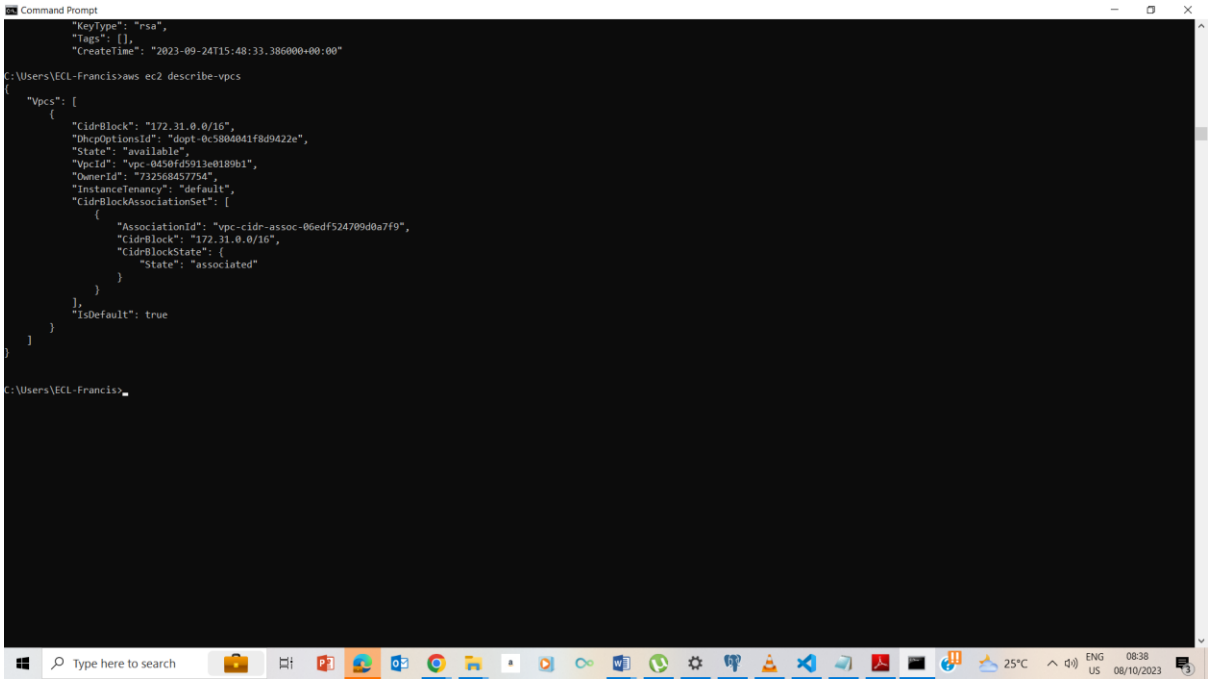


Confirm that the Key pair is created on the AWS Management Console

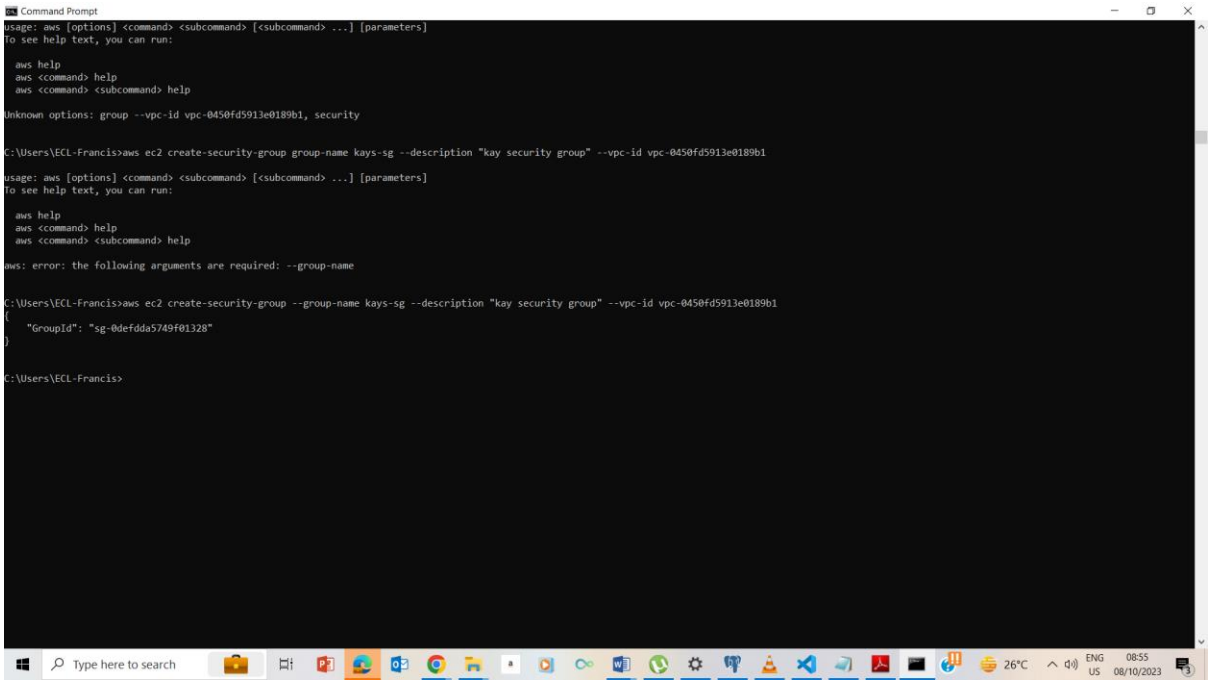


STEP 2 CREATE SECURITY GROUP

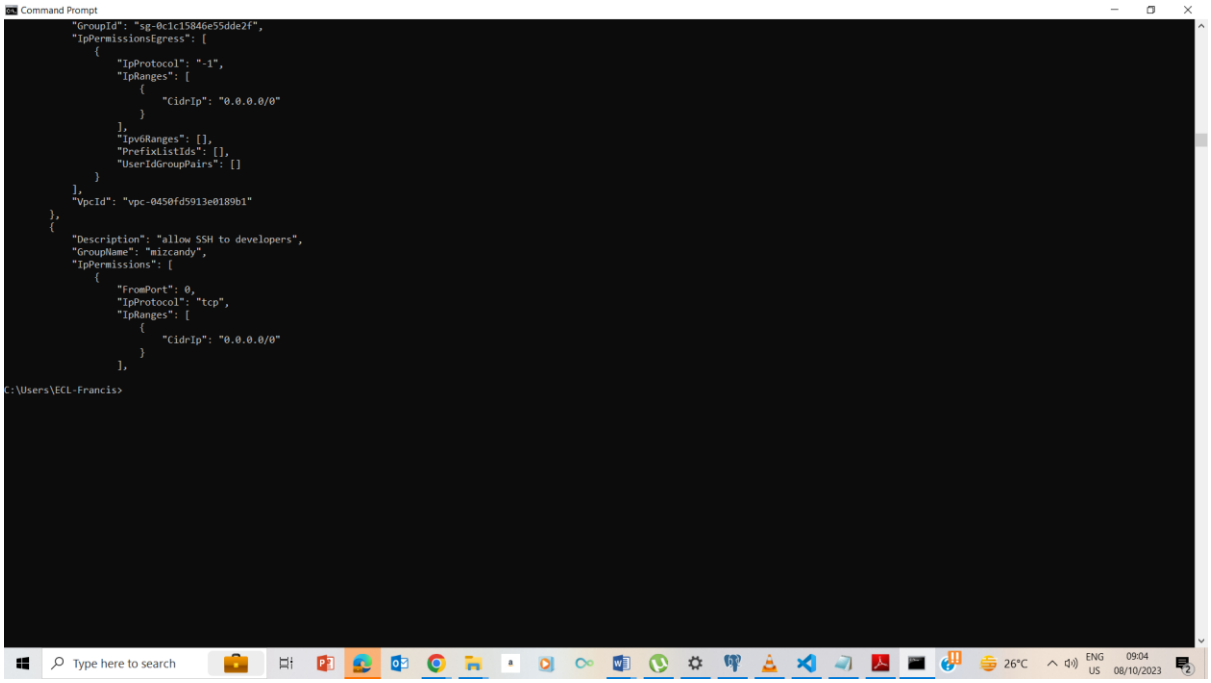
1, We first check for the VPC with the command aws ec2 describe-vpcs

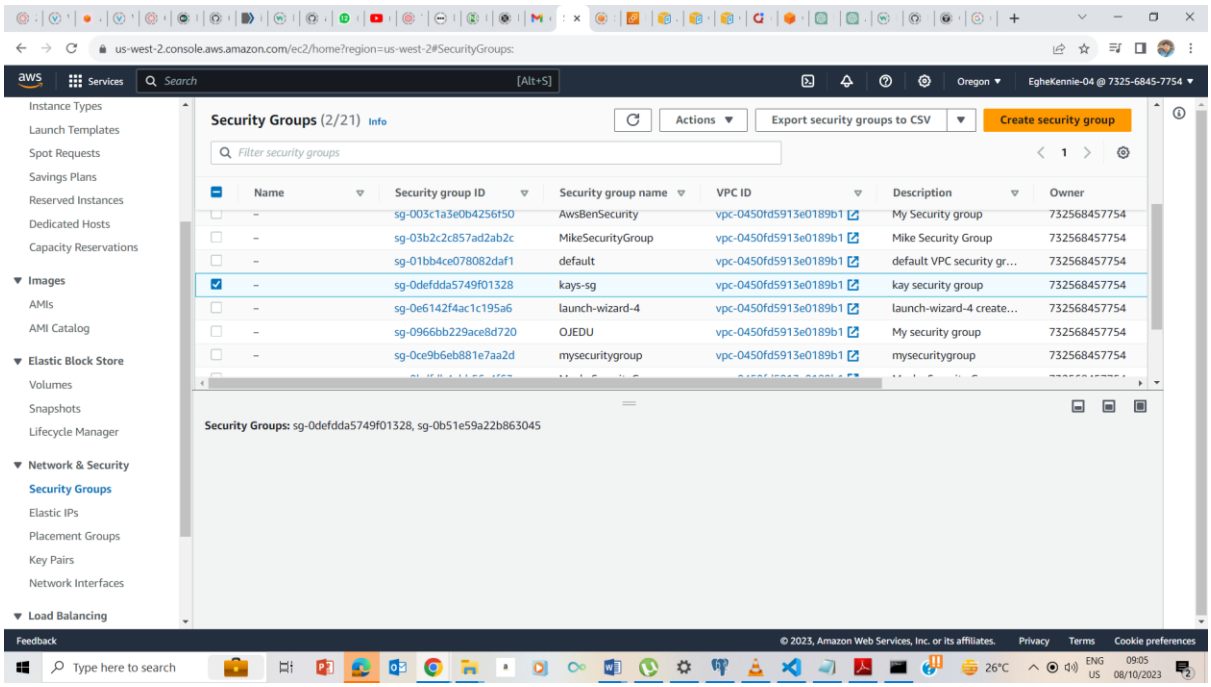


Copy the vpc id and input it in the create security group command and the security group id is revealed.



To confirm the creation of the security Grup we just created, we use the command “aws ec2 describe-security-groups”. And also confirm from the AWS Management console Security Groups


Command Prompt
"GroupId": "sg-0c1c15846e55dde2f",
"IpPermissionsEgress": [
{
"IpProtocol": "-1",
"IpRanges": [
{
"CidrIp": "0.0.0.0/0"
}
],
"Ipv6Ranges": [],
"PrefixListIds": [],
"UserIdGroupPairs": []
}
],
"VpcId": "vpc-0450fd5913e0189b1"
},
{
"Description": "allow SSH to developers",
"GroupName": "mizcandy",
"IpPermissions": [
{
"FromPort": 0,
"IpProtocol": "tcp",
"IpRanges": [
{
"CidrIp": "0.0.0.0/0"
}
],
C:\Users\ECL-Francis>
Type here to search
26°C
ENG
US
09:04
08/10/2023


us-west-2.console.aws.amazon.com/ec2/home?region=us-west-2#SecurityGroups:
aws
Services
Search
[Alt+S]
Oregon
EgheKennie-04 @ 7325-6845-7754
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Snapshots
Lifecycle Manager
Network & Security
Security Groups
Elastic IPs
Placement Groups
Key Pairs
Network Interfaces
Load Balancing
Security Groups (2/21) Info
Actions
Export security groups to CSV
Create security group
Filter security groups
Name
Security group ID
Security group name
VPC ID
Description
Owner
sg-003c1a3e0b4256f50 AwsBenSecurity vpc-0450fd5913e0189b1 My Security group 732568457754
sg-03b2c2c857ad2ab2c MikeSecurityGroup vpc-0450fd5913e0189b1 Mike Security Group 732568457754
sg-01bb4ce078082daf1 default vpc-0450fd5913e0189b1 default VPC security gr... 732568457754
sg-0defdda5749f01328 kays-sg vpc-0450fd5913e0189b1 kay security group 732568457754
sg-0e6142f4ac1c195a6 launch-wizard-4 vpc-0450fd5913e0189b1 launch-wizard-4 create... 732568457754
sg-0966bb229ace8d720 OJEDU vpc-0450fd5913e0189b1 My security group 732568457754
sg-0ce9b6eb881e7aa2d mysecuritygroup vpc-0450fd5913e0189b1 mysecuritygroup 732568457754
Security Groups: sg-0defdda5749f01328, sg-0b51e59a22b863045
Feedback
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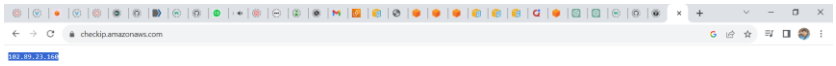
Privacy
Terms
Cookie preferences
Type here to search
26°C
ENG
US
09:05
08/10/2023

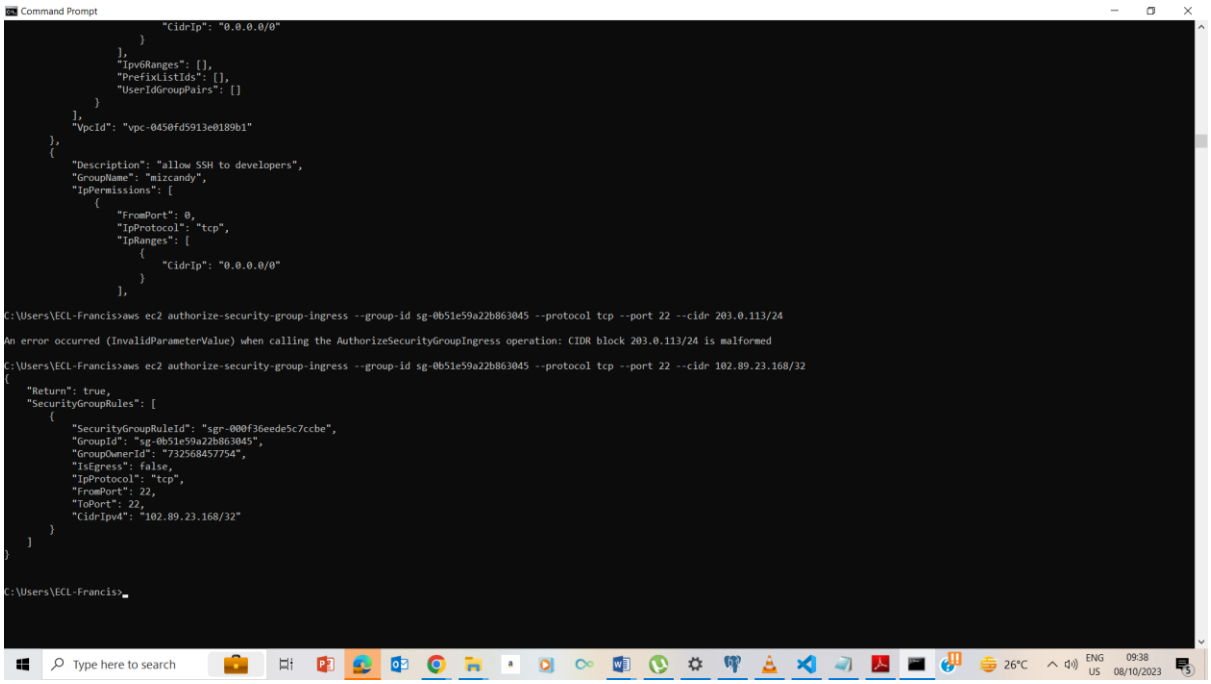
TO CREATE SECURITY GROUP

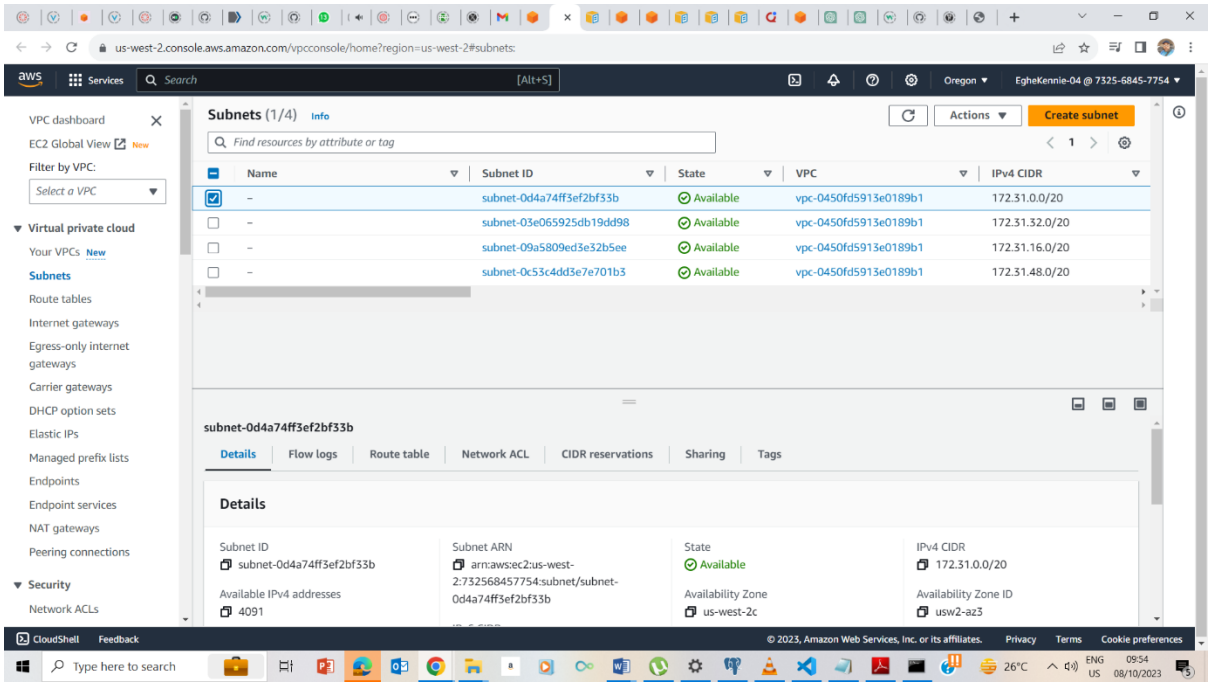
First Check Ip address using checkip.amazonaws.com



CREATE SECURITY GROUP

Create the Security group using aws ec2 authorize-security-group-ingress –group-id (security group id) –protocol tcp –port 22 –cidr(ip adresss got earlier)


Command Prompt
"CidrIp": "0.0.0.0/0"
"Ipv6Ranges": [],
"PrefixListIds": [],
"UserIdGroupPairs": []
"VpcId": "vpc-0450fd5913e0189b1"
"Description": "allow SSH to developers",
"GroupName": "mizcandy",
"IpPermissions": [
"FromPort": 0,
"IpProtocol": "tcp",
"IpRanges": [
"CidrIp": "0.0.0.0/0"
C:\Users\ECL-Francis>aws ec2 authorize-security-group-ingress --group-id sg-0b51e59a22b863045 --protocol tcp --port 22 --cidr 203.0.113/24
An error occurred (InvalidParameterValue) when calling the AuthorizeSecurityGroupIngress operation: CIDR block 203.0.113/24 is malformed
C:\Users\ECL-Francis>aws ec2 authorize-security-group-ingress --group-id sg-0b51e59a22b863045 --protocol tcp --port 22 --cidr 102.89.23.168/32
"Return": true,
"SecurityGroupRules": [
"SecurityGroupRuleId": "sgr-000f36eede5c7ccbe",
"GroupId": "sg-0b51e59a22b863045",
"GroupOwnerId": "732568457754",
"IsEgress": false,
"IpProtocol": "tcp",
"FromPort": 22,
"ToPort": 22,
"CidrIpv4": "102.89.23.168/32"
C:\Users\ECL-Francis>
Type here to search
26°C
ENG US
09:38
08/10/2023


us-west-2.console.aws.amazon.com/vpcconsole/home?region=us-west-2#subnets:
Services
Search
[Alt+S]
Oregon
EgheKennie-04 @ 7325-6845-7754
VPC dashboard
EC2 Global View
New
Filter by VPC:
Select a VPC
Virtual private cloud
Your VPCs
New
Subnets
Route tables
Internet gateways
Egress-only internet gateways
Carrier gateways
DHCP option sets
Elastic IPs
Managed prefix lists
Endpoints
Endpoint services
NAT gateways
Peering connections
Security
Network ACLs
Subnets (1/4)
Info
Actions
Create subnet
Find resources by attribute or tag
Name
Subnet ID
State
VPC
IPv4 CIDR
subnet-0d4a74ff3ef2bf33b
Available
vpc-0450fd5913e0189b1
172.31.0.0/20
subnet-03e065925db19dd98
172.31.32.0/20
subnet-09a5809ed3e32b5ee
172.31.16.0/20
subnet-0c53c4dd3e7e701b3
172.31.48.0/20
subnet-0d4a74ff3ef2bf33b
Details
Flow logs
Route table
Network ACL
CIDR reservations
Sharing
Tags
Subnet ID
subnet-0d4a74ff3ef2bf33b
Subnet ARN
arn:aws:ec2:us-west-2:732568457754:subnet/subnet-0d4a74ff3ef2bf33b
State
Available
IPv4 CIDR
172.31.0.0/20
Available IPv4 addresses
4091
Availability Zone
us-west-2c
Availability Zone ID
usw2-az3
CloudShell
Feedback
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Terms
Cookie preferences
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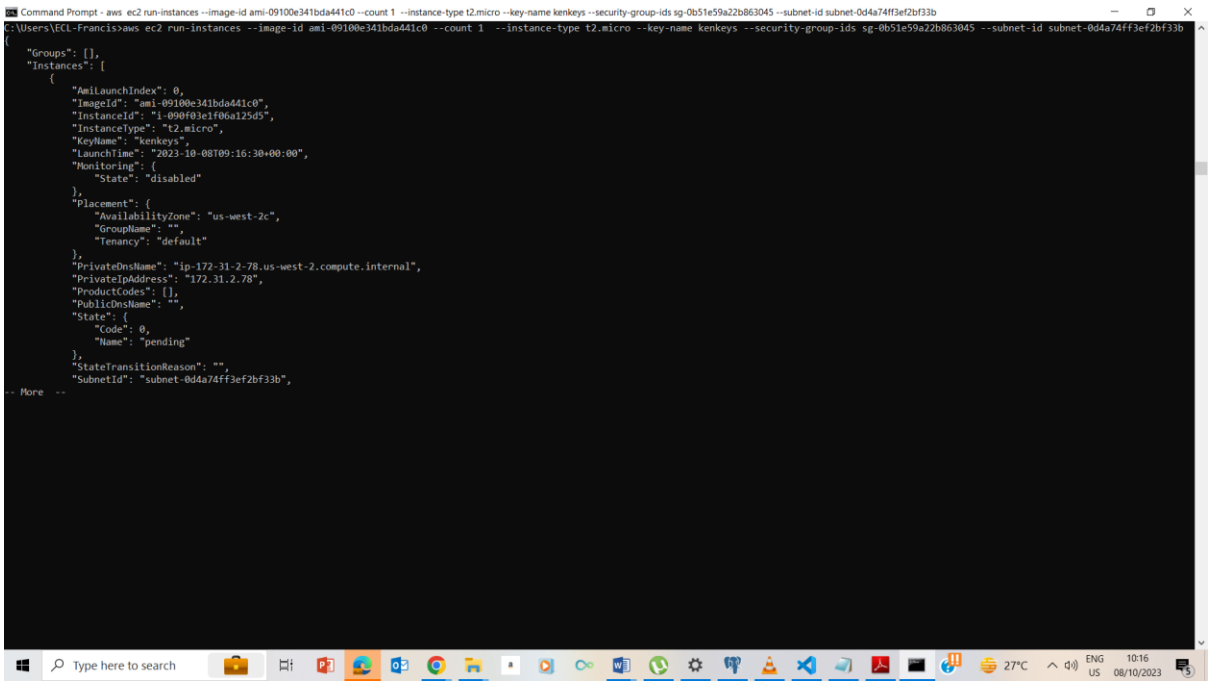
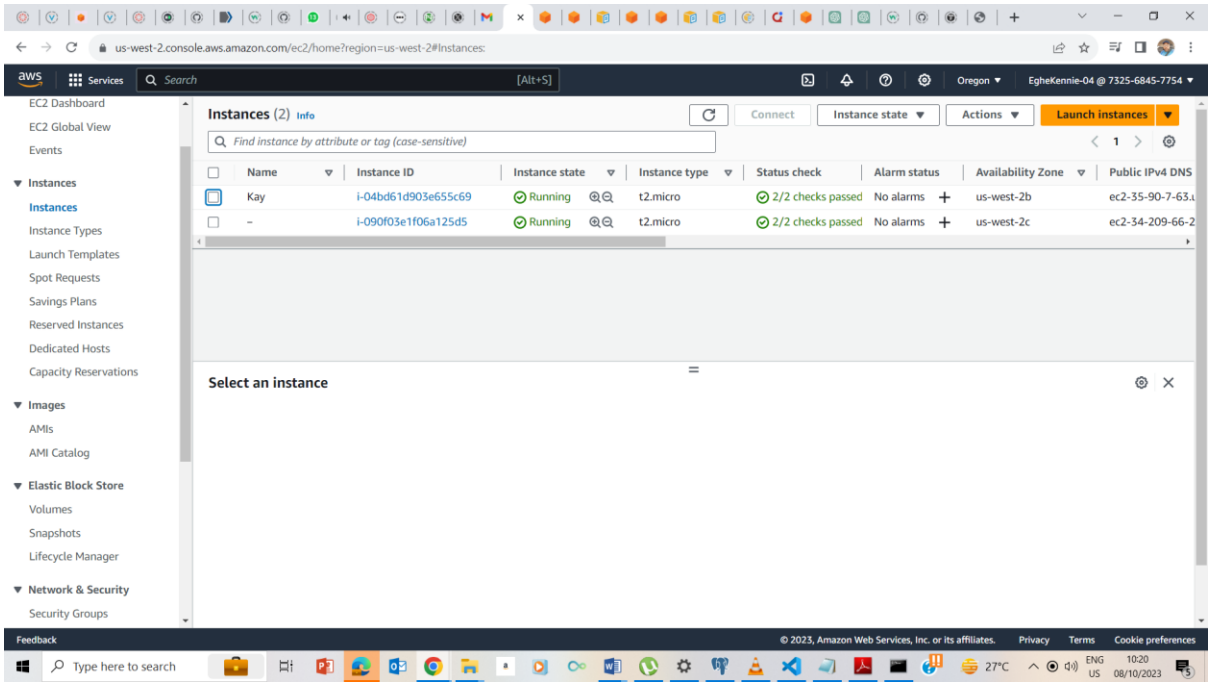
ENG US
09:54
08/10/2023

CREATING EC2 INSTANCE

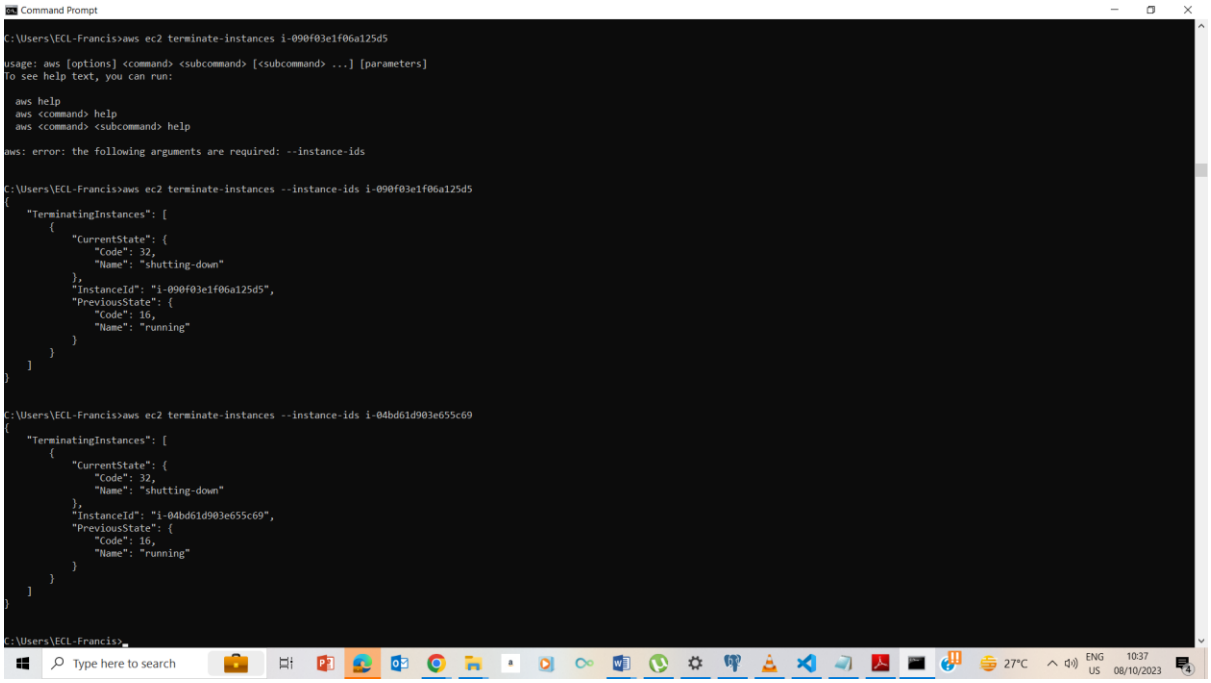


CONFIRM THE INSTANCE

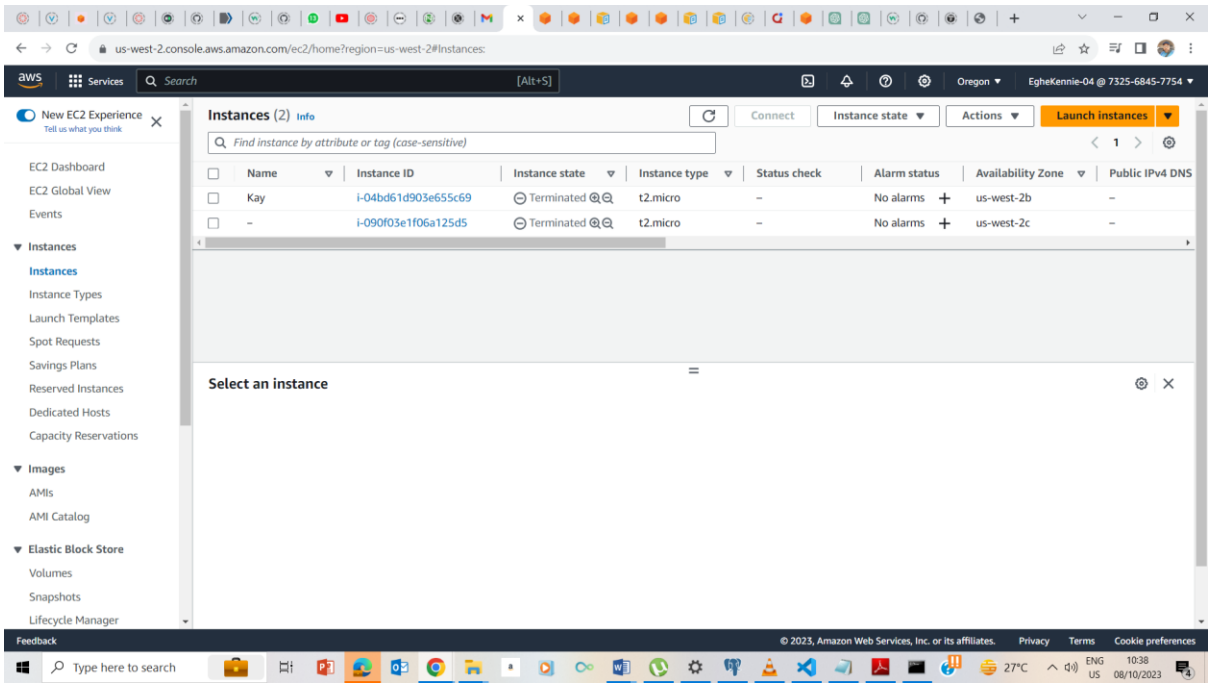


We have successfully created and ran and EC2 Instance using CLI

TERMINATING INSTANCES

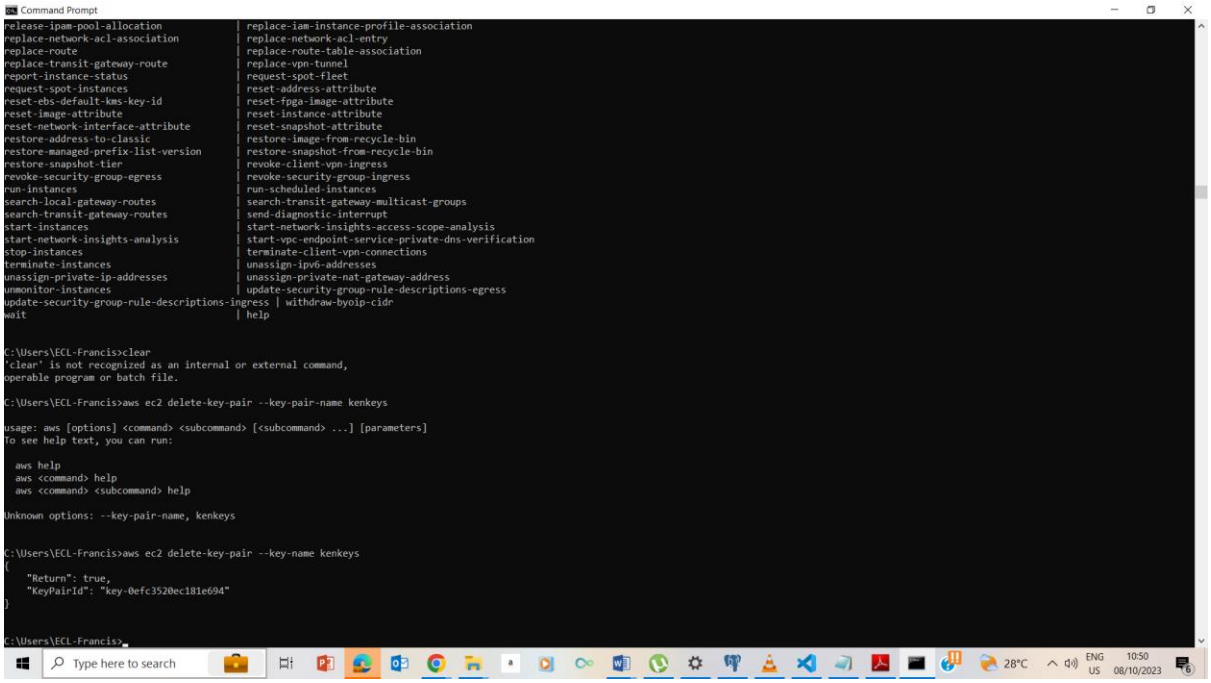


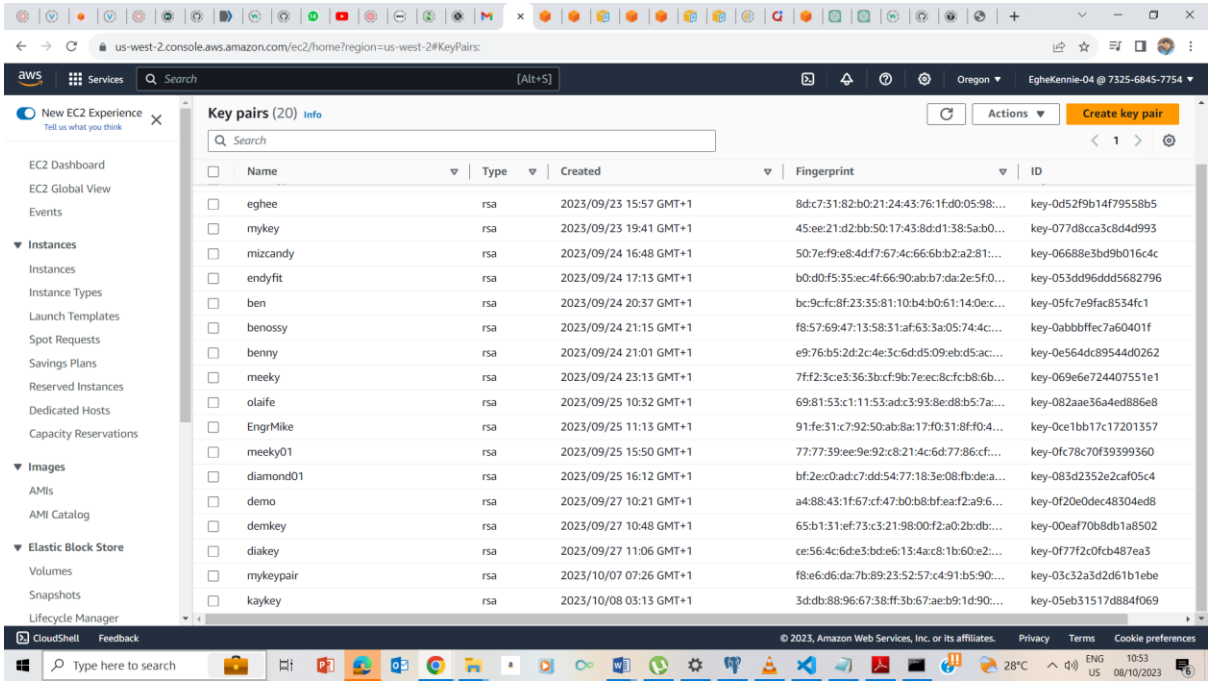
We terminate by using aws ec2 terminate-instances - - instance id (instance id number)



Confirmation that the Instance has been terminated.

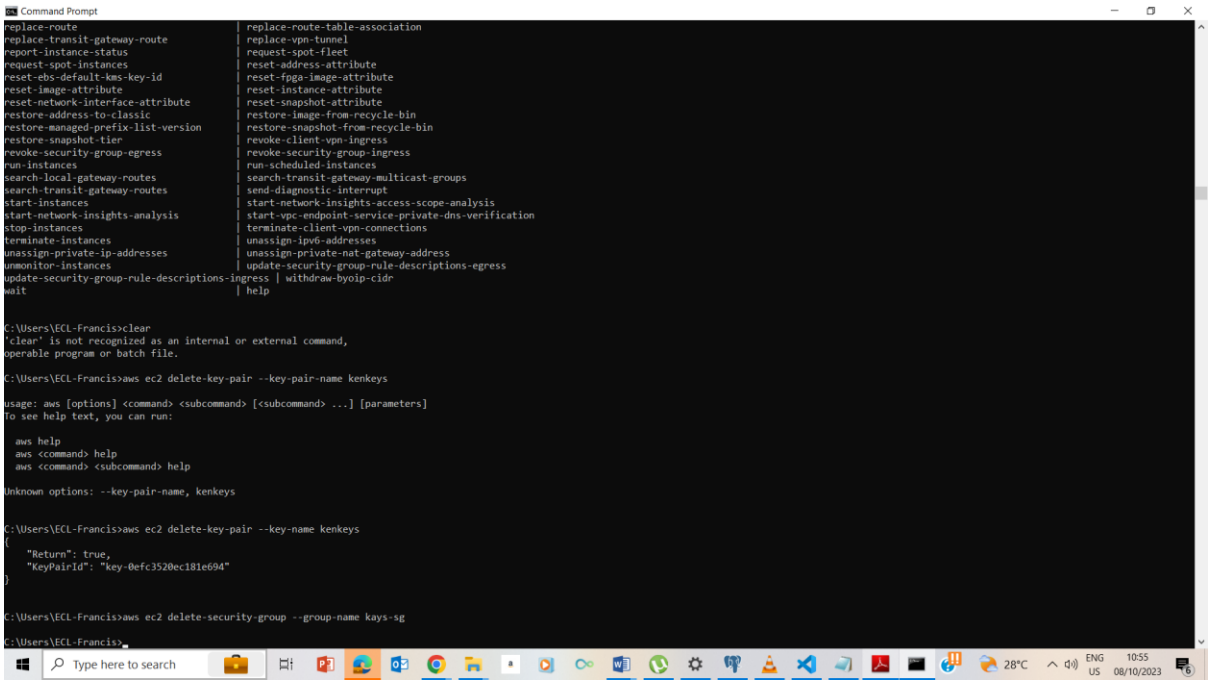
DELETE KEY PAIR USING THE COMMAND aws ec2 delete-key-pair –keyname (name of key)

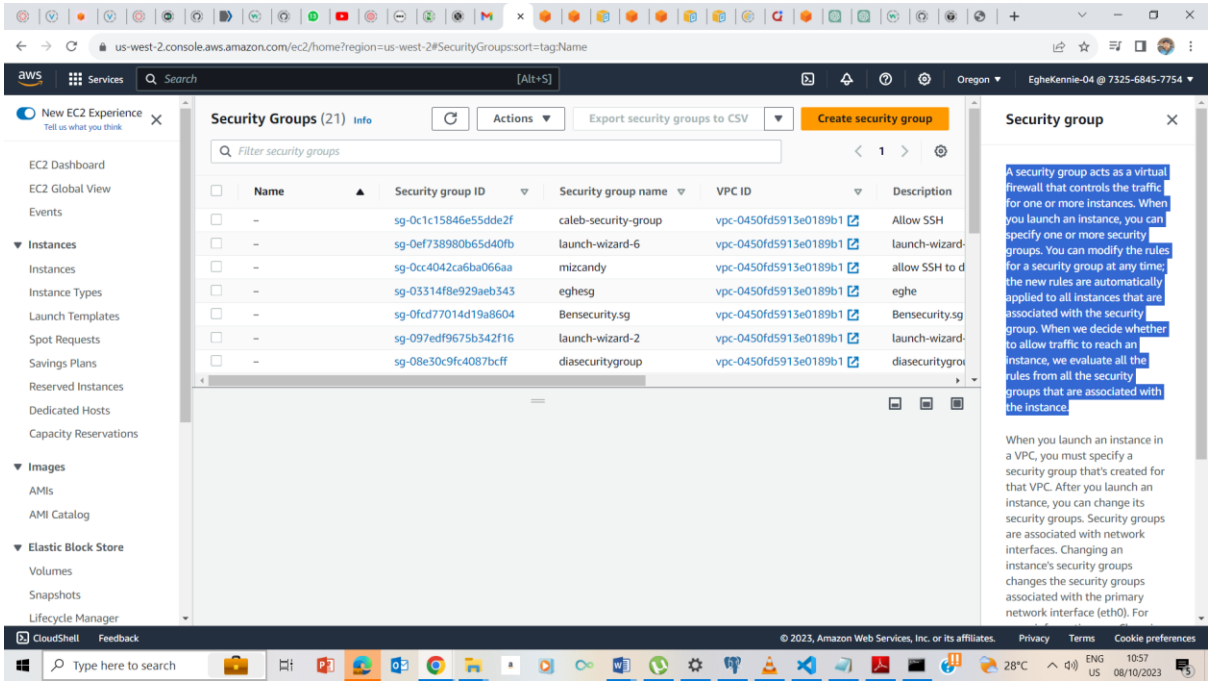




Kenkeys key pair deleted

DELETE SECURITY GROUPS by the command aws ec2 delete-security-group –group-name (name of group)





Confirmation of the security group deleted.