**To create a S3 bucket in private via AWS CLI:**

aws s3api create-bucket \

--bucket <your-bucket-name> \

--region <your-region> \

--create-bucket-configuration LocationConstraint=<your-region>

**To access the key Id:**

aws iam list-access-keys

**To keep the bucket only in private access to block public access:**

aws s3api put-public-access-block --bucket devops-s3-4954 --public-access-block-configuration BlockPublicAcls=true,IgnorePublicAcls=true,BlockPublicPolicy=true,RestrictPublicBuckets=true

**To Launch EC2 instance via AWS CLI:**

1) to List all the AMIs available:

aws ec2 describe-images --owners amazon --filters "Name=name,Values=amzn2-ami-hvm-\*-x86\_64-gp2" --query "Images[\*].[ImageId,Name]" --output text

2) to create a key pair:

aws ec2 create-key-pair --key-name xfusion-kp --query 'KeyMaterial' --output text > xfusion-kp.pem

chmod 400 MyKeyPair.pem

**launching instance:**

aws ec2 run-instances --image-id ami-0cd59ecaf368e5ccf --count 1 --instance-type t2.micro --key-name xfusion-kp --security-group-ids sg-0a96284fc4fc2d4a2 --subnet-id subnet-08a8d092b703cb5e9 --tag-specifications 'ResourceType=instance,Tags=[{Key=Name,Value=xfusion-ec2}]'

**to find the default security group:**

aws ec2 describe-security-groups --filters Name=vpc-id,Values=vpc-0ce08bdf4c114f268 Name=group-name,Values=default --query 'SecurityGroups[\*].GroupId' --output text

**to find the default VPC:**

aws ec2 describe-vpcs --filters "Name=isDefault,Values=true" --query "Vpcs[\*].VpcId" --output text

**Filter Subnets by VPC ID:**

aws ec2 describe-subnets --filters "Name=vpc-id,Values= vpc-0ce08bdf4c114f268" --query "Subnets[\*].[SubnetId, CidrBlock, AvailabilityZone]" --output table

**to stop the instances:**

aws ec2 stop-instances --instance-ids i-039c2340b956b4734

**find the instance id by using tag:**

aws ec2 describe-instances --filters "Name=tag:Name,Values=MyInstanceName" --query 'Reservations[\*].Instances[\*].InstanceId' --output text

**Modify the instance type:**

aws ec2 modify-instance-attribute --instance-id i-039c2340b956b4734 --instance-type "{\"Value\": \"t2.nano\"}"

**start the instance:**

aws ec2 start-instances --instance-ids i-039c2340b956b4734

**verify instance:**

aws ec2 describe-instances --instance-ids i-039c2340b956b4734 --query 'Reservations[\*].Instances[\*].[InstanceId,InstanceType]' --output table

**check the status of an instance:**

aws ec2 describe-instances --instance-ids i-03ce750726548ec3d --query 'Reservations[\*].Instances[\*].[InstanceId,State.Name]' --output table

**Terminate a Specific Instance:**

aws ec2 terminate-instances --instance-name datacenter-ec2

aws ec2 describe-instances --filters "Name=tag:Name,Values=datacenter-ec2" --query 'Reservations[\*].Instances[\*].InstanceId' --output text