1.What is AWS CLI? Give the procedure to install CLI on Windows and Linux Machines.

A) The [AWS Command Line Interface](https://aws.amazon.com/cli) (AWS CLI) is a unified tool to manage your AWS services. With just one tool to download and configure.

* Go to google AWS cli windows
* Download and install go to command prompt
* Type on AWS and next go to AWS console search on AMI click on AMI
* Create to user name and password
* Open to command prompt type on user name and password

2.Create an EC2 instance using CLI for the below specifications.

Amazon Linux AMI, Keypair, VPC and subnet, with and EIP attached to it.

Give the command to create an EC2, and show the same on AWS Console.

A) manually creating EC2, VPC, KEYPAIR and Subnet

After then get id’s all

After go to Virtual studio code open and pat it

After then go to AWS console open to CloudFormation

Create an stack open and upload the Ymal file after then submit

One by one creating.

3.Give the command to describe all the EC2 instance in your AWS account.

A) A quick bash oneliner command to print all the instance IDs in all regions: $ aws ec2 describe-regions --query "Regions[]. {Name:RegionName}" --output text |xargs -I {} aws ec2 describe-instances --query Reservations[\*]. Instances[\*].

4. Give the command to describe a Security Group that is already created in your account.

A) By default, if you create a member account as part of your organization, AWS automatically creates a role in the account that grants administrator permissions to IAM users in the management account who can assume the role.

Listing available security groups (Console)  
Sign in to the AWS Management Console and open the Amazon EC2 console . In the navigation pane, choose Security Groups. The available security groups appear in the Security Groups list.

5.What is Cloud formation? What are the benefits of Cloud formation?

AWS CloudFormation is an infrastructure service provided by Amazon Web Services (AWS) that allows users to create and manage a collection od AWS resources by provisioning and updating them in a complete infrastructure or AWS resources in a text file. CloudFormation **allows developers to defines and provision AWS infrastructure as Code (Iac) template.**

**Benefits of CloudFormation**

* Deployment speed. ...
* Scaling up. ...
* Service integration. ...
* Security. ...
* Easy updates. ...
* Template.

6.What is infrastructure as Code and its Benefits?

A) Infrastructure as code (IaC) helps organizations achieve their DevOps goals of automation and self-service by maintaining declaration files in version control that define your application environments.

* Benfits: Better security: The older your software and hardware are, the riskier it is to keep on using them. ...
* Improved speed and reliability: Using the most current technologies ensures your employees are able to do their jobs more efficiently, with fewer interruptions.

7.What is AWS CloudFormation Template?

A) [AWS CloudFormation](https://aws.amazon.com/cloudformation/) simplifies provisioning and management on AWS. You can create templates for the service or application architectures you want and have AWS CloudFormation use those templates for quick and reliable provisioning of the services or applications (called “stacks”).

8.Using CloudFormation (yaml templates) created an EC2 instance in existing VPC and Subnet. Identify details of Events and Resources created on CloudFormation.

A) manually creating EC2, VPC and Subnet

After then get id’s all

After go to Virtual studio code open and pat it

After then go to AWS console open to CloudFormation

Create an stack open and upload the Ymal file after then submit

One by one creating.

open on cloud formation and create to stack after then give the information.

9. Using CloudFormation create a new VPC Public and Private Subnet, Route tables.

A) manually creating VPC Public and Private Subnet

After then get id’s all

After go to Virtual studio code open and pat it

After then go to AWS console open to CloudFormation

Create an stack open and upload the Ymal file after then submit

One by one creating.

10. Using CloudFormation (json templates) create an EC2 instance in an existing VPC and subnet.

A) manually creating EC2, using on existing VPC and subnet

After then get id’s all

After go to Virtual studio code open and pat it

After then go to AWS console open to CloudFormation

Create an stack open and upload the Ymal file after then submit

One by one creating.