# **Question 1:**

# Create an EC2 instance for a Reactjs application and deploy the application and provide public ip for it and also enable the cloud monitoring on this instance.

**EC2 CREATION:**

STEP 1:

Open Amazon EC2 and Click on launch instance.

STEP 2:

Type the instance name. Choose the AMI. Here we choosing Amazon Linux 2 AMI(HVM)- Free tier. Choose the instance type.

STEP 3:

Now choose the existing key pair or create a new key pair.

STEP 4:

Now edit the network settings. Edit the VPC and choose the inbound rules.

STEP 5:

Now configure the other settings and launch the instance.

STEP 6:

Connect to the instance.

**DEPLOYING THE REACT APP:**

After connecting the instance ,execute the following commands

STEP 1:

**sudo yum update** to update the packages.

STEP 2:

**sudo yum install node. js** to install nodejs

STEP 3:

**curl -o-https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.3/install.sh | bash** to install content in the github repository.

STEP 4:

**. ~/.nvm/nvm.sh** to manage node versions in our device.

STEP 5: **nvm install --lts** to install specific version of a node.

STEP 6:

**nvm install 16** to install the 16th version of the node.

STEP 7:

**node –version** to check the version of the node with command

STEP 8:

**npx create-react-app my-app** to install the react js application

STEP 9: **sudo yum install git** to install git to take the reactjs application from guthub.

STEP 10:

**git clone** [**https://github.com/ItzDerock/youtube-downloader-website**](https://github.com/ItzDerock/youtube-downloader-website) to clone the application which is in the repository.

STEP 11:

**cd youtube-downloader-website** to go to the directory of the application.

STEP 12:

**npm install** to install npm

STEP 13:

**npm run build** to build the application.

STEP 14:

**npm run start** to run the application.

**Cloud Monitoring on the instance:**

STEP 1:

Select instance that we want to monitor.

STEP 2:

Select the drop down menu of actions.

STEP 3:

Select monitoring and troubleshoot. In that, choose detailed monitoring.

STEP 4:

Then check the enable box.

STEP 5:

Now , we can able to see the monitoring of EC2 instance.