

curl "https://awscli.amazonaws.com/awscli-exe-linux-x86\_64.zip" -o "awscliv2.zip"

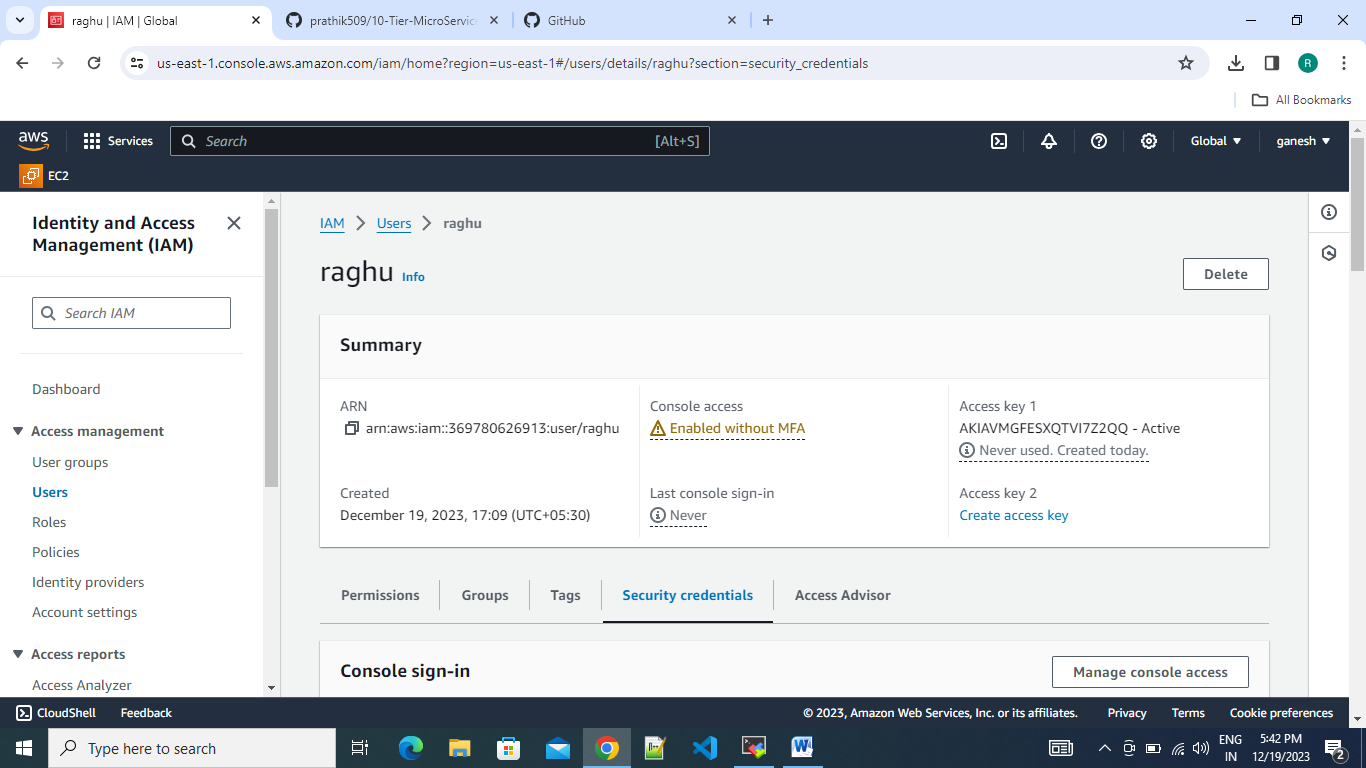
unzip awscliv2.zip

sudo apt install unzip

unzip awscliv2.zip

sudo ./aws/install

aws configure



Click on **create access key** --🡪 select CLI -🡪 Click on I Understand --🡪 download ..csv file into local.

**ubuntu@ip-172-31-18-141:~$ aws configure**

AWS Access Key ID [None]: AKIAVMGFESXQTVI7Z2QQ

AWS Secret Access Key [None]: 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

Default region name [None]: us-east-1

Default output format [None]:

**ubuntu@ip-172-31-18-141:~$ aws configure list**

Name Value Type Location

---- ----- ---- --------

profile <not set> None None

access\_key \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*Z2QQ shared-credentials-file

secret\_key \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*5gsK shared-credentials-file

region us-east-1 config-file ~/.aws/conf

curl -o kubectl https://amazon-eks.s3-us-west-2.amazonaws.com/1.19.6/2021-01-05/bin/linux/amd64/kubectl

% Total % Received % Xferd Average Speed Time Time Time Current

Dload Upload Total Spent Left Speed

100 57.4M 100 57.4M 0 0 19.5M 0 0:00:02 0:00:02 --:--:-- 19.5M

ubuntu@ip-172-31-18-141:~$ ls

aws awscliv2.zip kubectl

ubuntu@ip-172-31-18-141:~$ chmod +x ./kubectl

ubuntu@ip-172-31-18-141:~$ sudo mv ./kubectl /usr/local/bin

ubuntu@ip-172-31-18-141:~$ kubectl version --short --client

Client Version: v1.19.6-eks-49a6c0

**Link to install eksctl:**

<https://linux.how2shout.com/how-to-install-eksctl-cli-tool-on-ubuntu-linux/>

curl --silent --location "https://github.com/weaveworks/eksctl/releases/latest/download/eksctl\_$(uname -s)\_amd64.tar.gz" | tar xz -C /tmp

ubuntu@ip-172-31-18-141:~$ sudo mv /tmp/eksctl /usr/local/bin

ubuntu@ip-172-31-18-141:~$ eksctl version

0.166.0

**Creating the EKS cluster:**

**For zones vpc-subnets-**

**eksctl create cluster --name=my-eks8 --region=us-east-1 --zones=us-east-1a,us-east-1c --without-nodegroup**

**Jenkins:**

**sudo apt install openjdk-17-jre-headless**

**sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \**

**https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key**

**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 jenkins**

**setup Jenkins completely.**

**Setting up the Sonarqube:**

For that we need to install the docker

sudo apt install docker.io –y

sudo usermod -G docker Ubuntu

sudo newgrp docker

sudo chmod 666 /var/run/docker.sock

**docker run -d -p 9000:9000 sonarqube:latest**

**docker ps**

**installation done for sonar qube .**

**eksctl utils associate-iam-oidc-provider --region us-east-1 --cluster my-eks8 –approve**

**eksctl create nodegroup --cluster=my-eks8 --region=us-east-1 --name=node2 --node-type=t3.medium --nodes=2 --nodes-min=2 --nodes-max=3 --node-volume-size=20 --ssh-access --ssh-public-key=key --managed --asg-access --external-dns-access --appmesh-access --alb-ingress-access**

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