EKS using steps:

Step 1: install aws cli

sudo apt install unzip

curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
unzip awscliv2.zip
sudo ./aws/install

```
#aws --version
#aws s3 ls
```

Step 2: configure AWS credentials

run aws configure command put your account access key and credentials

Step 3: install kubectl on ubuntu

URL: https://kubernetes.io/docs/tasks/tools/install-kubectl-linux/#install-kubectl-binary-with-curl-on-linux

```
# curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"
```

For check the linux file type
uname -m

If Linux x86-64:

```
curl -LO https://dl.k8s.io/release/v1.27.3/bin/linux/amd64/kubectl
```

or

if the linux is ARM64:

```
curl -LO https://dl.k8s.io/release/v1.27.0/bin/linux/arm64/kubectl
```

```
curl -LO "https://dl.k8s.io/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl.sha256"
```

```
echo "$(cat kubectl.sha256)  kubectl" | sha256sum –check
```

Install kubectl

```
sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl
```

Check installation:

```
# kubectl version --client

# kubectl version --client --output=yaml
```

Step :4 install eksctl

Run the following command to install eksctl

```
# for ARM systems, set ARCH to: `arm64`, `armv6` or `armv7`
ARCH=amd64
PLATFORM=$(uname -s)_$ARCH

curl -sLO https://github.com/eksctl-io/eksctl/releases/latest/download/eksctl_$PLATFORM.tar.gz

# (Optional) Verify checksum
curl -sL "https://github.com/eksctl-io/eksctl/releases/latest/download/eksctl_checksums.txt" | grep $PLATFORM | sha256sum –check

tar -xzf eksctl_$PLATFORM.tar.gz -C /tmp && rm eksctl_$PLATFORM.tar.gz

sudo mv /tmp/eksctl /usr/local/bin
```

Now check
eksctl version

Step:5 Now create a cluster by running the following command

```
eksctl create cluster \
--name test-cluster33 \
--version 1.26 \
--region us-east-1 \
--nodegroup-name linux-nodes \
--node-type t2.micro \
--nodes 2
```

after install check the node
#kubectl get nods

Step :5 create a pod in this eks node

Now can run any pod to this container

#kubectl create -f web2023.yaml

#kubectl create -f web2023-service.yaml

#kubectl get pod,svc

Step: 6 Delete eks cluster

After done all work delete the cluster by running the following command

#eksctl delete cluster --name test-cluster

EKS managed cluster tools

https://nirmata.com/