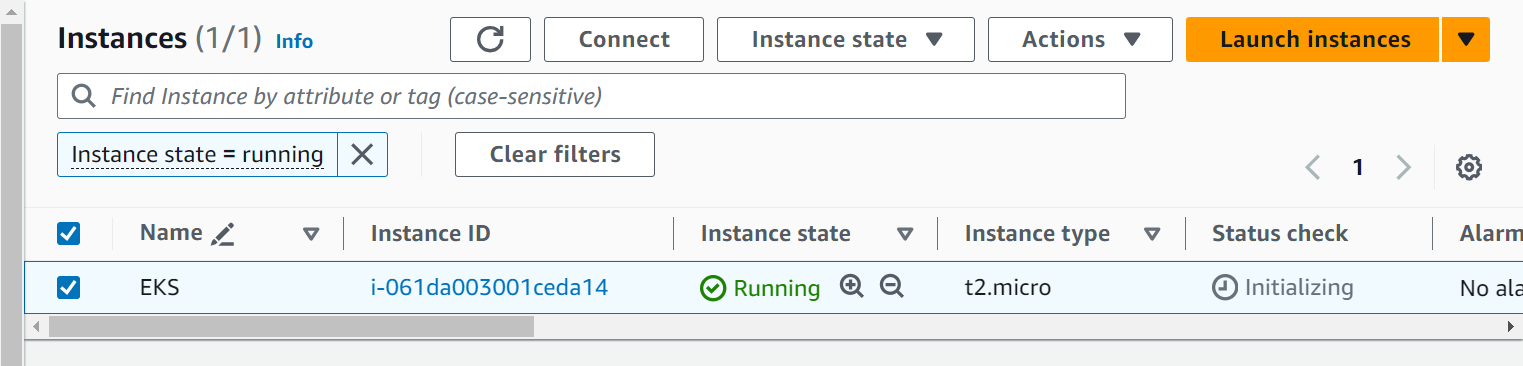
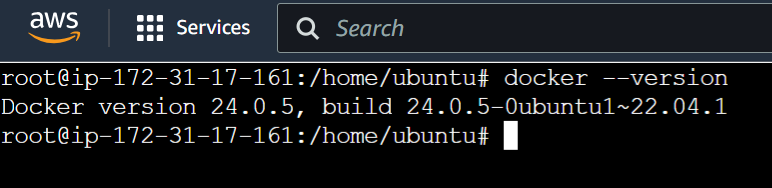
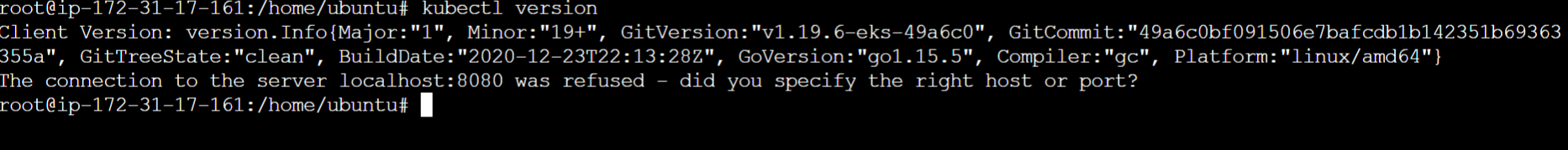
Solution:

**Creating EC2 Instance**

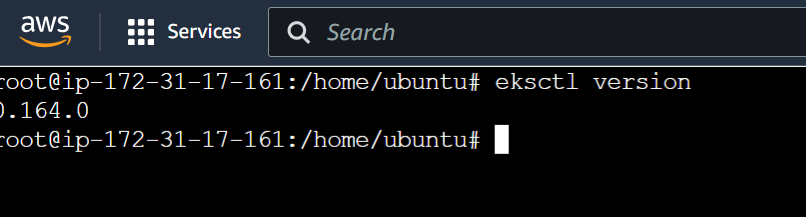
  
**Installing docker**



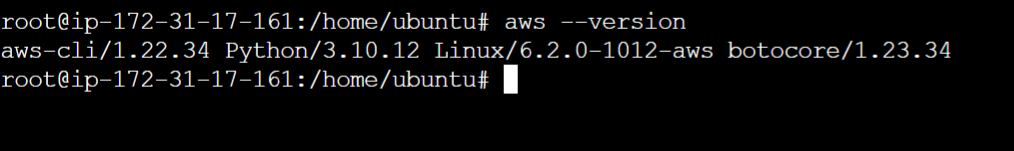
**Installing kubectl**

****

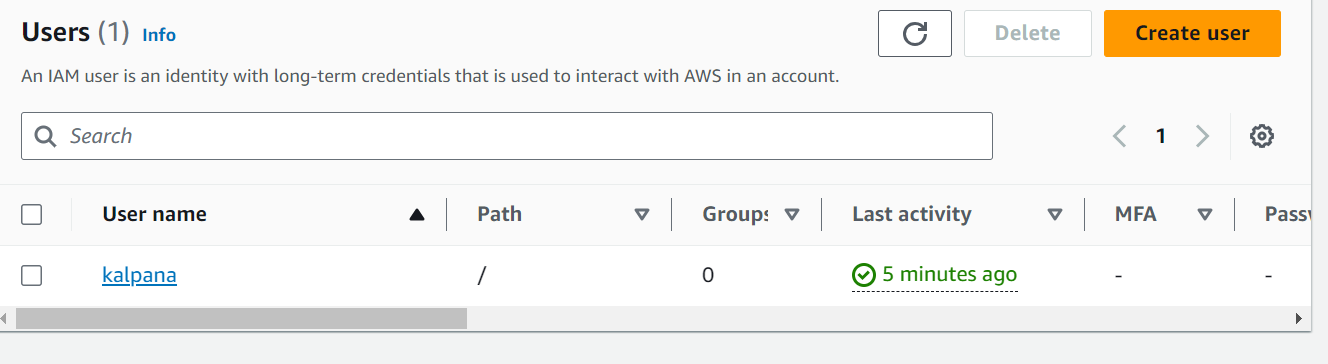
**Installing eksctl**

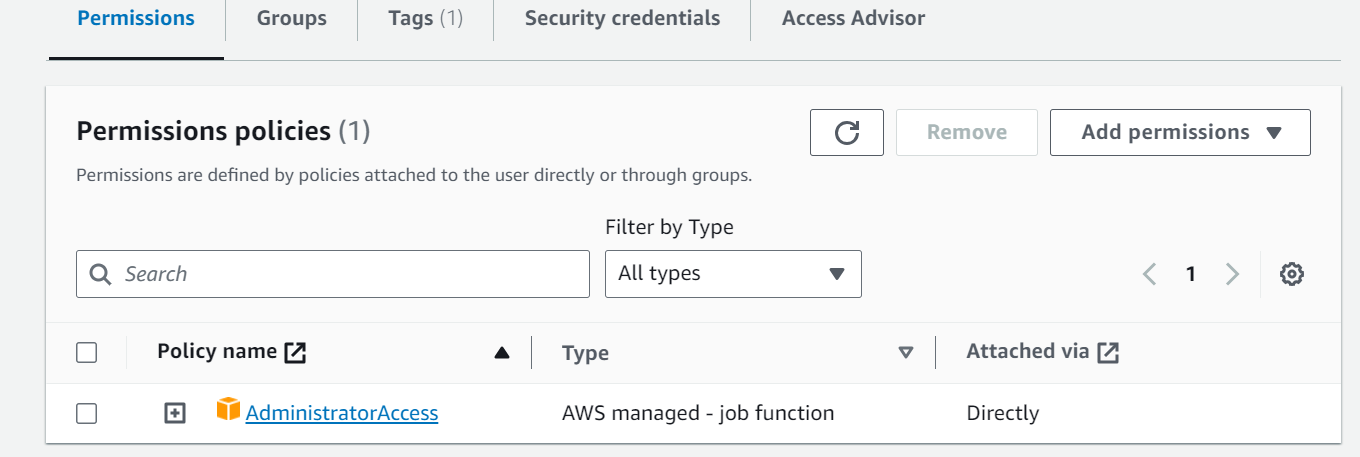
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**Installing AWSCLI**

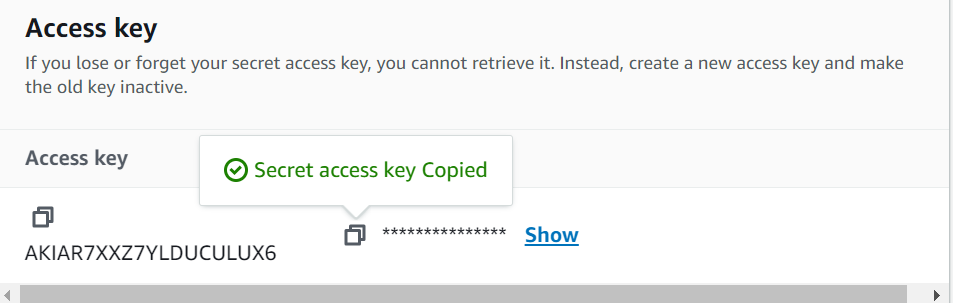
****

**Creating an IAM user**

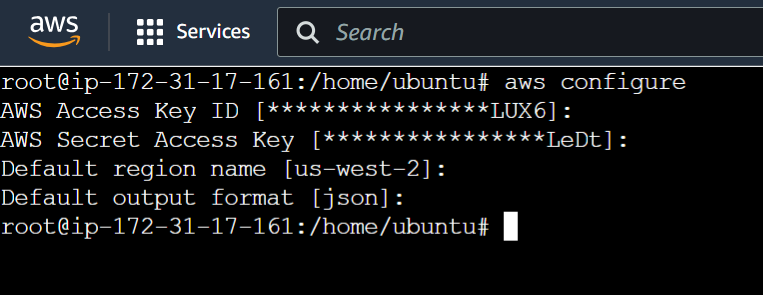
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**Creating a access key and secret key from IAM user**

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**Configuring aws credentials**

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**Creating a cluster via eksctl**

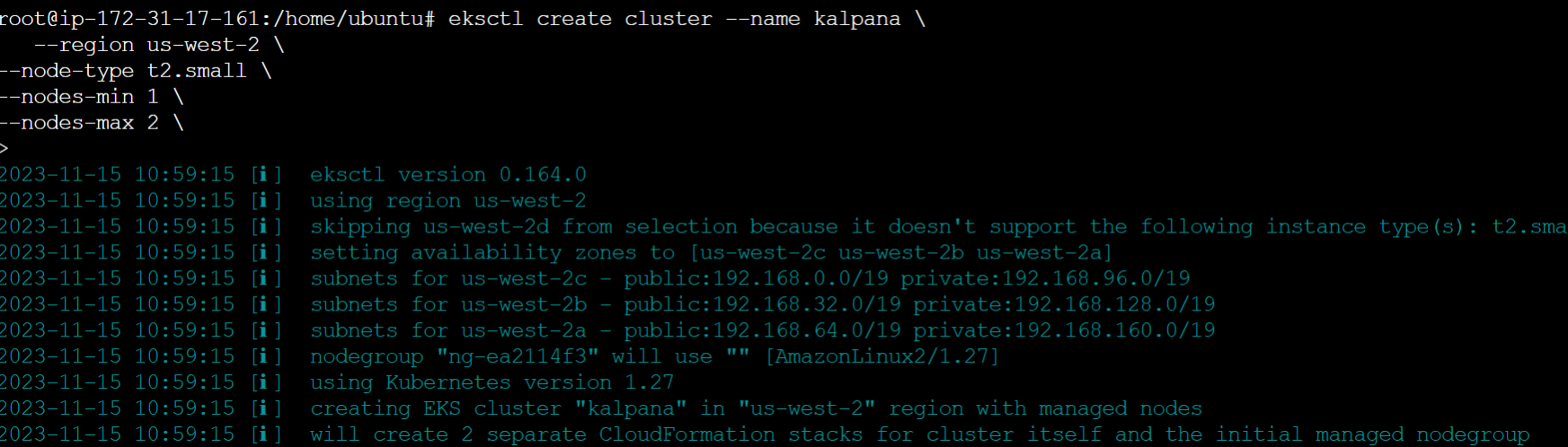
**eksctl create cluster --name kalpana \**

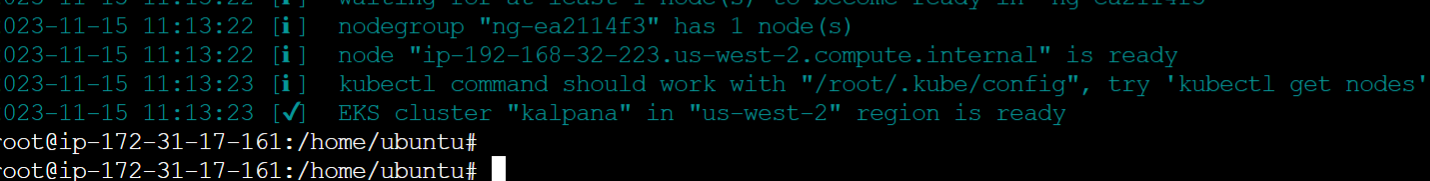
**--region us-west-2 \**

**--node-type t2.small \**

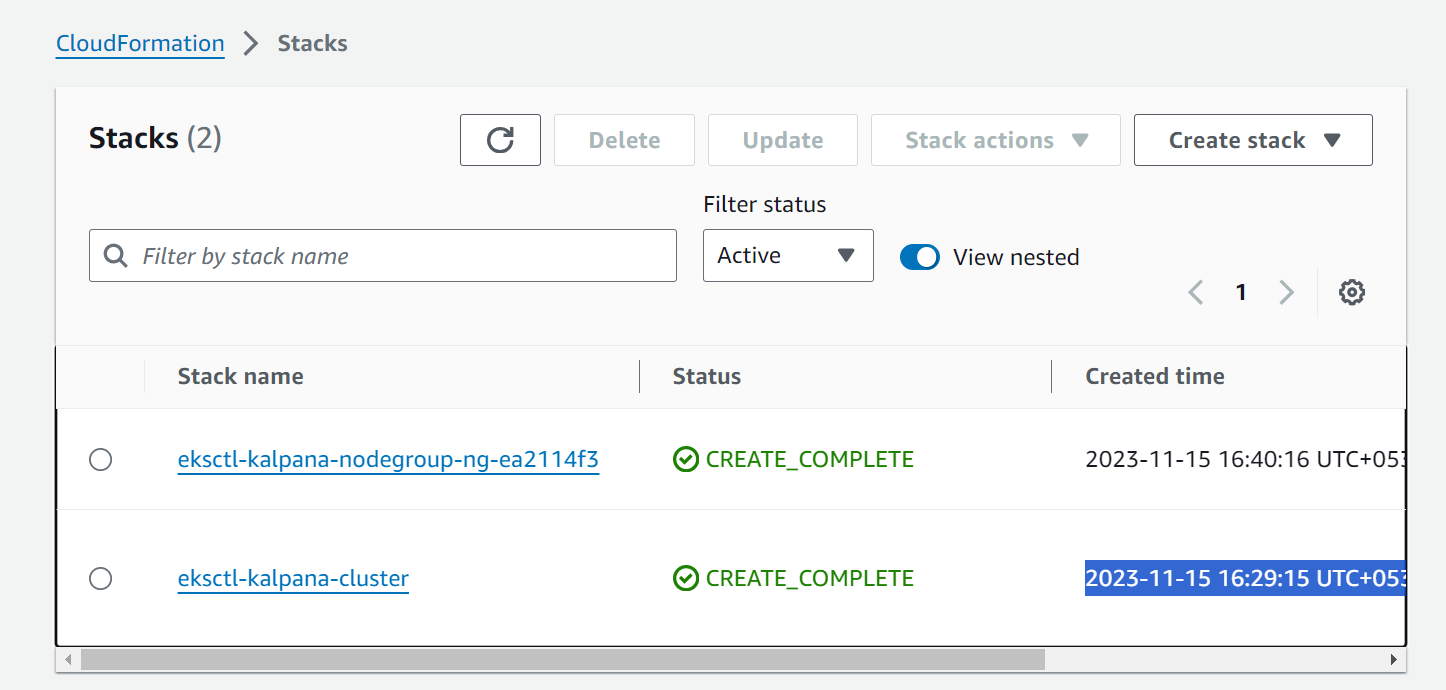
**--nodes-min 1 \**

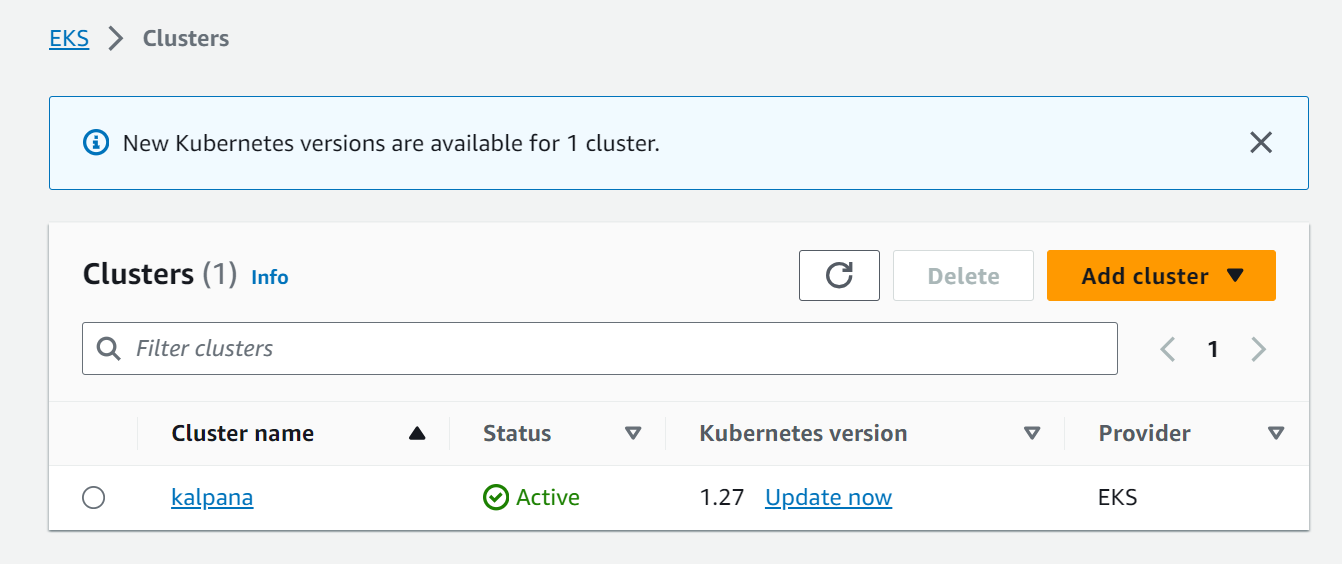
**--nodes-max 2 \**

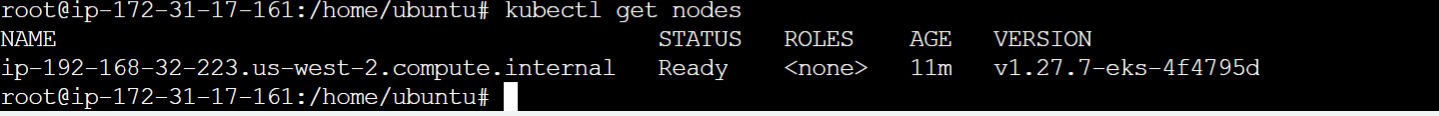
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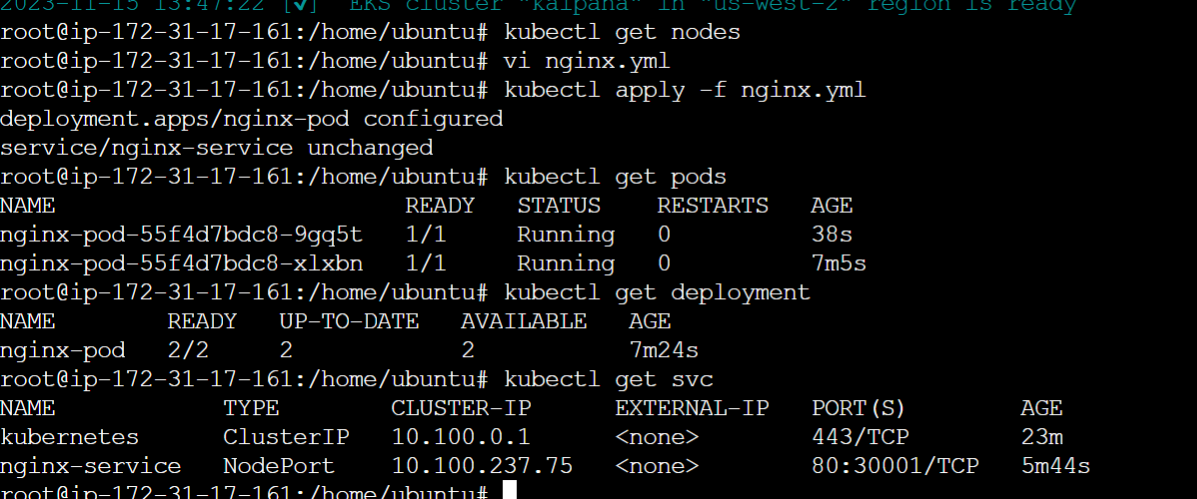
**Checking the cluster results**

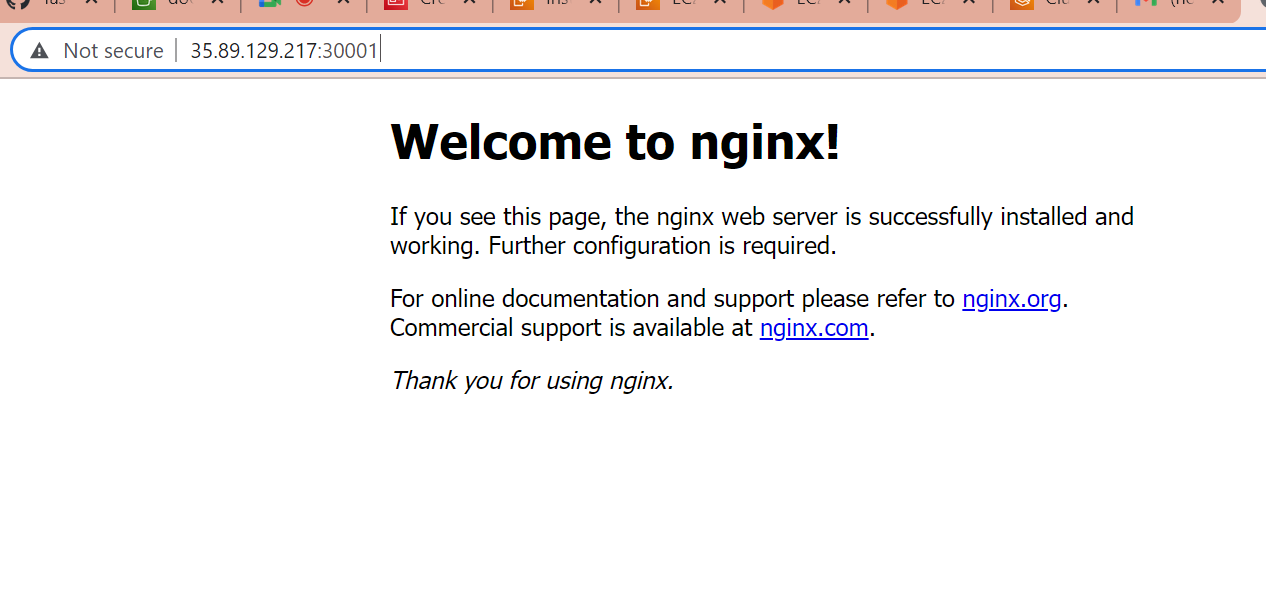
****

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**Nginx deployment**

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**Source code**

apiVersion: apps/v1

kind: Deployment

metadata:

  name: nginx-pod

spec:

  replicas: 2

  selector:

    matchLabels:

      app: nginx

  template:

    metadata:

      labels:

        app: nginx

    spec:

      containers:

      - name: nginx-container

        image: nginx

        ports:

         - containerPort: 80

---

apiVersion: v1

kind: Service

metadata:

  name: nginx-service

spec:

  type: NodePort

  selector:

    app: nginx

  ports:

  - port: 80

    targetPort: 80

    nodePort: 30001