1. Install AWS Cli

#!/bin/bash

sudo apt update -y

# Download the installer

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

sudo apt install unzip -y

# Unzip the package

unzip awscliv2.zip

# Run the installer

sudo ./aws/install

# Verify installation

aws --version

# Clean up

rm -rf awscliv2.zip aws

A screenshot of a computer program

AI-generated content may be incorrect.

1. Install eks

#!/bin/bash

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

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

eksctl version

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1. Install kubectl

#!/bin/bash

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

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

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

A screen shot of a computer

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1. Create EKS Cluster

apiVersion: eksctl.io/v1alpha5

kind: ClusterConfig

metadata:

name: solon-app-cluster

region: ap-south-1

version: "1.28"

nodeGroups:

- name: ng-1

instanceType: t3.medium

desiredCapacity: 2

minSize: 1

maxSize: 3

eksctl create cluster -f cluster.yaml

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A close-up of a computer screen

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1. Creating Deployment

apiVersion: apps/v1

kind: Deployment

metadata:

name: nginx-deployment

spec:

selector:

matchLabels:

app: nginx

replicas: 2

template:

metadata:

labels:

app: nginx

spec:

containers:

- name: nginx

image: nginx:latest

ports:

- containerPort: 80

kubectl apply -f nginx-deployment.yaml

A screenshot of a computer program

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1. Create a LoadBalancer service

apiVersion: v1

kind: Service

metadata:

name: nginx-service

spec:

selector:

app: nginx

ports:

- protocol: TCP

port: 80

targetPort: 80

type: LoadBalancer

kubectl apply -f nginx-service.yaml

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A screenshot of a computer

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