**EKS Setup**

Terraform Repo: <https://github.com/jaiswaladi246/Mega-Project-Terraform.git>

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# Install AWS CLI

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

sudo apt install unzip

unzip awscliv2.zip

sudo ./aws/install

aws configure

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#Install Terraform

sudo apt-get update && sudo apt-get install -y gnupg software-properties-common curl

curl -fsSL https://apt.releases.hashicorp.com/gpg | sudo gpg --dearmor -o /usr/share/keyrings/hashicorp-archive-keyring.gpg

echo "deb [signed-by=/usr/share/keyrings/hashicorp-archive-keyring.gpg] https://apt.releases.hashicorp.com $(lsb\_release -cs) main" | sudo tee /etc/apt/sources.list.d/hashicorp.list

sudo apt-get update && sudo apt-get install terraform -y

terraform -version

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# Kubeconfig

aws eks --region ap-south-1 update-kubeconfig --name devopsshack-cluster

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# Kubectl

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

kubectl version --client

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curl -sLO "https://github.com/weaveworks/eksctl/releases/latest/download/eksctl\_$(uname -s)\_amd64.tar.gz"

tar -xzf eksctl\_$(uname -s)\_amd64.tar.gz

sudo mv eksctl /usr/local/bin

eksctl version

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eksctl utils associate-iam-oidc-provider --region ap-south-1 --cluster devopsshack-cluster --approve

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eksctl create iamserviceaccount \

--region ap-south-1 \

--name ebs-csi-controller-sa \

--namespace kube-system \

--cluster devopsshack-cluster \

--attach-policy-arn arn:aws:iam::aws:policy/service-role/AmazonEBSCSIDriverPolicy \

--approve \

--override-existing-serviceaccounts

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kubectl apply -k "github.com/kubernetes-sigs/aws-ebs-csi-driver/deploy/kubernetes/overlays/stable/ecr/?ref=release-1.11"

kubectl apply -f <https://raw.githubusercontent.com/kubernetes/ingress-nginx/main/deploy/static/provider/cloud/deploy.yaml>

kubectl apply -f <https://github.com/cert-manager/cert-manager/releases/download/v1.12.0/cert-manager.yaml>

Manifest File Added Below

Added in Folder **Manifest Yaml Files**