#!/bin/bash

###################################################

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#

# Date: 18-8-2023  
#

# version: v1

#

# This job is to install all the required software’s for eks cluster

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set -x

# installing awscli

sudo apt-get update -y

sudo apt-get install zip unzip git -y

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

sudo unzip awscliv2.zip

sudo ./aws/install

/usr/local/bin/aws --version

# installing EKSCTL

curl --silent --location [https://github.com/weaveworks/eksctl/releases/latest/download/eksctl\_$(uname -s)\_amd64.tar.gz](https://github.com/weaveworks/eksctl/releases/latest/download/eksctl_$(uname%20-s)_amd64.tar.gz) | tar xz -C /tmp

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

eksctl version

# Install Kubectl

curl -o kubectl <https://amazon-eks.s3.us-west-2.amazonaws.com/1.21.2/2021-07-05/bin/linux/amd64/kubectl>

chmod +x ./kubectl

mkdir -p $HOME/bin && cp ./kubectl $HOME/bin/kubectl && export PATH=$PATH:$HOME/bin

kubectl

# Install terraform

# Amazon Linux based

# Install yum-config-manager to manage your repositories.  
# sudo yum install -y yum-utils

# Use yum-config-manager to add the official HashiCorp Linux repository.  
# sudo yum-config-manager --add-repo https://rpm.releases.hashicorp.com/AmazonLinux/hashicorp.repo

# Install.  
# sudo yum -y install terraform

# Ubuntu OS

curl -fsSL https://apt.releases.hashicorp.com/gpg | sudo apt-key add

sudo apt-add-repository "deb [arch=amd64] https://apt.releases.hashicorp.com $(lsb\_release -cs) main"

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

*# {adding a repository and update it to install the terraform}*

terraform –version

# Installing Helm Charts

curl https://baltocdn.com/helm/signing.asc | gpg --dearmor | sudo tee /usr/share/keyrings/helm.gpg > /dev/null

sudo apt-get install apt-transport-https --yes

echo "deb [arch=$(dpkg --print-architecture) signed-by=/usr/share/keyrings/helm.gpg] https://baltocdn.com/helm/stable/debian/ all main" | sudo tee /etc/apt/sources.list.d/helm-stable-debian.list

sudo apt-get update

sudo apt-get install helm

# install Git

# sudo yum install git -y

sudo apt-get install git -y

#Install prometheus using helm charts

helm repo add prometheus-community https://prometheus-community.github.io/helm-charts

helm repo add kube-state-metrics https://kubernetes.github.io/kube-state-metrics

helm repo update &amp;&amp; kubectl create ns infra

helm install prometheus prometheus-community/prometheus -n infra --set server.service.type=LoadBalancer

kubectl get all -n infra

# Install Grafana using helm charts

helm repo add bitnami https://charts.bitnami.com/bitnami &amp;&amp;

helm install grafana bitnami/grafana -n infra --set service.type=LoadBalancer –set service.ports.grafana=3200 &amp;&amp;

kubectl get all -n infra

# Install Sonarqube using helm charts

helm repo add sonarqube https://SonarSource.github.io/helm-chart-sonarqube

helm repo update

helm install sonarqube sonarqube/sonarqube -n infra --set service.type=LoadBalancer

kubectl get all -n infra

# Install Nexus using helm charts

helm repo add sonatype https://sonatype.github.io/helm3-charts/

helm repo update

helm install nexus-rm sonatype/nexus-repository-manager -n infra --set service.type=LoadBalancer

kubectl get all -n infra

# Install Jenkins using helm charts

helm repo add bitnami https://charts.bitnami.com/bitnami

helm install jenkins bitnami/jenkins -n infra --set service.type=LoadBalancer

kubectl get all -n infra

# Install Vault using helm charts

helm repo add hashicorp https://helm.releases.hashicorp.com

helm repo update

helm install vault hashicorp/vault -n infra --set server.service.type=LoadBalancer

kubectl get all -n infra

# Install EFK using helm charts

# stage("Deploy EFK") {

# sh """

# cat &lt;&lt; EOF &gt; kibana.yaml

# files:

# kibana.yml:

# server.name: kibana

# server.host: "0"

# elasticsearch.hosts: http://elasticsearch-client:9200

#service:

# type: LoadBalancer

# externalPort: 5601

helm repo add stable https://charts.helm.sh/stable

helm install elasticsearch stable/elasticsearch -n infra --set client.serviceType=LoadBalancer

helm install kibana stable/kibana -n infra -f kibana.yaml

helm install fluentd stable/fluentd-elasticsearch -n infra

kubectl get all -n infra

# Install Jaeger using helm charts

helm repo add jaegertracing https://jaegertracing.github.io/helm-charts

helm install jaeger jaegertracing/jaeger -n infra --set query.service.type=LoadBalancer

kubectl get all -n infra"

# Install Consul Deployment using helm charts

helm repo add hashicorp https://helm.releases.hashicorp.com

helm repo update

helm install consul hashicorp/consul --set global.name=consul -n infra --set server.replicas=1 --set ui.service.type=LoadBalancer

kubectl get all -n infra