Deploy Nginx Web Server on Kubernetes Cluster

Some of the Nautilus team developers are developing a static website and they want to deploy it on Kubernetes cluster. They want it to be highly available and scalable. Therefore, based on the requirements, the DevOps team has decided to create a deployment for it with multiple replicas. Below you can find more details about it:

1. Create a deployment using nginx image with latest tag only and remember to mention the tag i.e nginx:latest. Name it as nginx-deployment. The container should be named as nginx-container, also make sure replica counts are 3.
2. Create a NodePort type service named nginx-service. The nodePort should be 30011.

Note: The kubectl utility on jump\_host has been configured to work with the kubernetes cluster.

Kubectl get namespace

Kubectl get pods

Vi nginx.yml

apiVersion: v1

kind: Service

metadata:

name: nginx-service

spec:

type: NodePort

selector:

app: nginx-app

type: front-end

ports:

- port: 80

targetPort: 80

nodePort: 30011

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apiVersion: apps/v1

kind: Deployment

metadata:

name: nginx-deployment

labels:

app: nginx-app

type: front-end

spec:

replicas: 3

selector:

matchLabels:

app: nginx-app

type: front-end

template:

metadata:

labels:

app: nginx-app

type: front-end

spec:

containers:

- name: nginx-container

image: nginx:latest

kubectl create -f nginx.yml

kubectl get pods

kubectl exec nginx-deployment-ngnxc – curl <http://localhost>