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Steps to implement blue green deployment model

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Step-0: Clone below git repo

https://github.com/suffixscope/Blue-Green-Model.git

Step-1: Navigate into Blue-Green-Model directory

Step-2 Create the blue pod deployment(Pod label v1)

Step-3 Create the live service to expose the blue pods

Step-4 Access your application using aws load balancer DNS url

(blue pods deployed application through the browser)

Step-5 Create the Green pods deployment

Step-6 check all the pods are running in our cluster

# kubectl get pods

Step-7 Create the pre prod service to expose the green pods

Step-8 Access the green pods using pre prod service using node port service

eg : <Nodepoblicip:Nodeportnumber>

Step-9 check both the url's are available in our browser (blue pods and green pods)

Step10 - To access the green pods deployed application for the live users

we need to change the v1 to v2 in the live service yml file

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Package manager

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In linux o/s we have package manager to install the required software’s/packages

eg: yum,dnf and apt etc

If you are using amazon linux

- sudo yum install java

- sudo yum install git

- sudo yum install maven

- sudo yum install tomcat

If you are using ubuntu linux

- sudo apt install java

- sudo apt install maven

- sudo apt install git

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What is HELM

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Helm is a package manager which is used to install some software in k8s cluster

Helm will use helm charts to install the required packages

If i want to install a software like Grafana, Prometheus, efk in the k8s cluster we use helm charts

Grafana - resource monitoring

Prometheus - collecting the metrics of k8s cluster

efk - to monitor the logs of our application

charts were used to install packages using helm charts

Chart is a collection of files organized in a specific directory structure