**Ass-4**

**How to monitoring spring boot application with prometheus and grafana on kubernets cluster**

Prerequisites:-

**Step:-1** We should download these tools to run the spring boot application

1. Java
2. Maven (or) Gradle (or) Ant

**Step:2** Install docker on system to run kubernets cluster

1. Docker login
2. Kubectl on cloud services
3. Minikube on local system

## Step:3 Prometheus install

## Step:4 Grafana Install

## Introduction: I going to run a basic application helloworld in spring boot application. Before going to install kubernets I want to install docker. And I will create a image in docker and then I will install kubernets.

## Buliding a Image in Kubernets:-

## $ kubectl cluster-info

## This command will help to where the kubernets master is running and KubeDNS is running

## First we should Bulid a Dockerfile which contain to run spring boot application.

## After creating Dockerfile we should the run the Docker file then image will be created.

## Image should push to Docker Hub repo

## Now we should Deploying our image with kubernets

## To do this we write basic .yaml file to deploy our image in kubernets

## Now we can install montoring Prometheus and check metrics

## Conclusion:-

Getting started with Kubernetes can be quite challenging. I think there are 3 main reasons for that:

* Writing a good YAML file is difficult
* Knowledge of networking is required
* There are a lot of small interconnected components such as Docker, Pods, Services, and ReplicaSets