**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:

**Step 1 : Deploy a Spring Boot application on Kubernetes and expose actuator endpoints**

#### **Step:2: Create separate namespace for Monitoring**

#### **Step 3: Deploy Prometheus using Helm Chart**

#### **Cmd:- Helm install Prometheus stable/prometheus --namespace monitoring**

#### **Step 4:- Deploy Grafana using Helm Chart**

## 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**