Kube2SONiC

Grafana Setup

October 2023

Revision History

Revision No.	Description	Editor	Date
1.0	Document Creation	Saba Akram	Oct 06, 2023

Table of Contents

Introduction

K8s Cluster

Node	OS version
Master	Ubuntu 22.0
Worker	SONiC

The kubernetes cluster should be deployed with at least one master and one worker node.

Verify k8s Installation

Check and verify all nodes are in Ready state

```python
kubectl get nodes
```

Check and verify all the k8s pods are up and running

```python
kubectl get pods -n kube-system
```

Verify Prometheus Installation

 # Verify that the Prometheus deployment is up and running

```Python
kubectl get deployments  -n monitoring
```

Grafana Setup

To get the kubernetes grafana configurations clone the following repo

<link to be added >

 # Get the prometheus endpoints

```Python
kubectl get ep -n monitoring
```

 # Edit the   grafana config-map manifest

```Python
vi grafana-datasource-config.yaml
```

Add the prometheus end points to the url tag in the config manifest file.

 # Create the config map using the updated manifest

```Python
kubectl create -f grafana-datasource-config.yaml
```

Create the Deployment

```python
kubectl create -f deployment.yaml
```

Create the Service to expose the endpoints

```python
kubectl create -f service.yaml
```

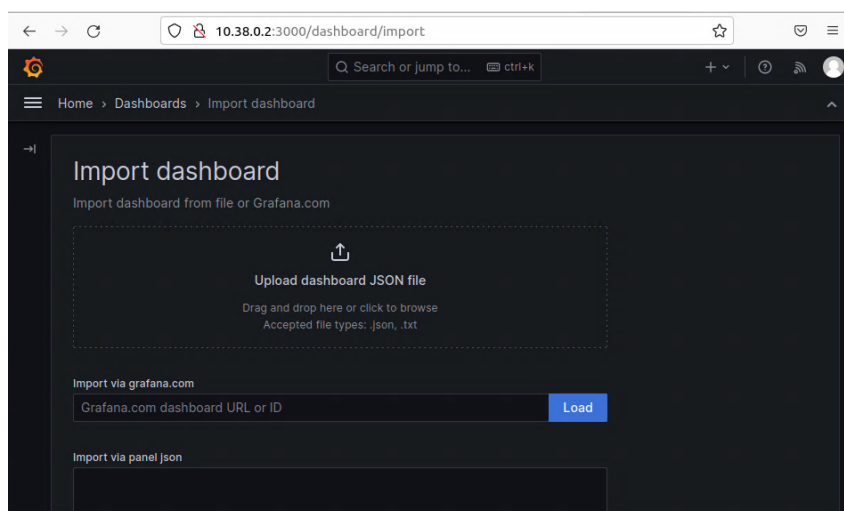# Get the endpoints and navigate to web browser

```python
kubectl get ep -n monitoring
```

Paste the endpoints to the web browser

http://<endpoint>:port

Navigate to the Dashboard -> import the dashboard from Json or using the grafana ID.

After loading the graph it will look like this, you can customise the graph with queries .