Monitoring-Stack Doc

Note: To setup Monitoring-Stack in Cluster First Install Loki after install Loki move towards installation of Grafana and Prometheus

➤ Installing Loki

Follow the Step to install Loki Monitoring Stack (Log)

Link: https://artifacthub.io/packages/helm/kube-ops/loki

- Open Loki Helm-Chart and change Values.yaml as shown below.
- Installing the Chart use following command:
 - ➤ helm repo add kube-ops https://charts.kube-ops.io
 - > helm repo update
 - ➤ helm upgrade --install [RELEASE_NAME] kube-ops/loki -n monitoring -f values.yaml

Changes made in *loki* Helm Chart are listed Below.

1. Adding Node-Selector in Values.yaml

```
nodeSelector:
pv: "monitoring"
```

2. Enable **persistence**(**pvc**) for Loki Values.yaml

```
persistence:
    ## If true, use a Persistent Volume Claim, If false, use emptyDir
    ##
    enabled: true
    storageClassName: ""
    size: 10Gi
    accessModes: [ ReadWriteOnce ]
    volumeMode: Filesystem
```

3. Enable Promtail Values.yaml

```
promtail:
enabled: true
```

4. Setting Log Retention Period Values.yaml

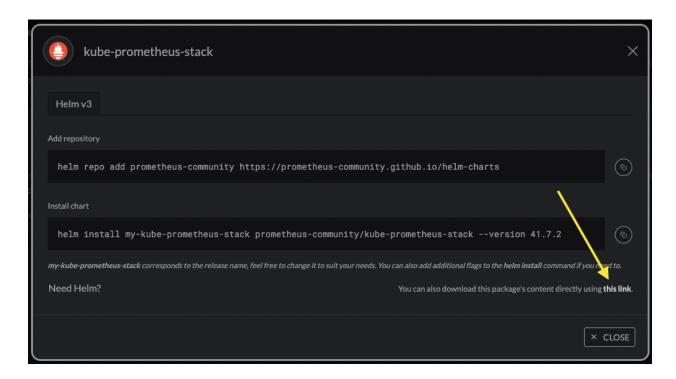
```
tableManager:
   retentionDeletesEnabled: true
   retentionPeriod: 6d
   throughputUpdatesDisabled: false
   pollInterval: 2m
   creationGracePeriod: 10m
```

➤ Installing Grafana and Prometheus

Follow the Step to install Monitoring Stack

Link: https://artifacthub.io/packages/helm/prometheus-community/kube-prometheus-stack

→ Go to above link and Download kube-prometheus-stack Helm-Chart.



- → Open Helm-Chart and change Values.yaml and Grafane Values.yaml as shown below.
- → After doing all the changes now install it using following command.

helm install [RELEASE_NAME] kube-prometheus-stack - n monitoring

Changes made in kube-prometheus-stack Helm Chart are listed Below

To add ScrapeConfigs
 Search for "additionalScrapeConfigs" in main Values.yaml of Helm Chart
 And add following content

```
additionalScrapeConfigs:
#1

- job_name: fantasy-node-dev-pm2-metrics
    scrape_interval: 10s
    scrape_timeout: 10s
    metrics_path: /metrics
    scheme: http
    static_configs:
    - targets:
        - fantasy-node-dev-pm2.dev.svc.cluster.local:9209
```

2. Change **Service-Type** for Grafana in Grafana Values.yaml You will Find this Values.yaml in *Charts/grafana/values.yaml*.

```
enabled: true
type: NodePort
port: 80
targetPort: 3000
```

3. Change Service-Type for Grafana in Grafana Service.yaml You will Find this Values.yaml in *Charts/grafana/templates/service.yaml*.

```
spec:
{{- if (or (eq .Values.service.type "ClusterIP") (empty
.Values.service.type)) }}
type: NodePort
```

4. Enable **persistence**(**pvc**) for Grafana in Grafana Values.yaml

```
persistence:

type: pvc

enabled: true
```

5. To Enable **SMTP** in Grafana add ENV in Grafana Values.yaml

```
env:

GF_SMTP_ENABLED: "true"

GF_SMTP_HOST: "smtp.gmail.com:587"

GF_SMTP_USER: "support@yudiz.com"

GF_SMTP_PASSWORD: "Yudiz@2022"
```

6. Add **Datasources** in Grafana Values.yaml

```
datasources:
datasources.yaml:
    apiVersion: 1
    datasources:
    - name: Loki
        type: loki
        url: http://loki
        - name: CloudWatch
        type: cloudwatch
        jsonData:
            authType: keys
            defaultRegion: ap-south-1
        secureJsonData:
            accessKey: 'accesskey'
            secretKey: 'secretkey'
```

 To Change admin Password, Login to Grafana Using Default Password and go to Server admin at bottom Left corner and click on admin and Edit Password and save it. 8. Add Dashboards in Grafana Values.yaml, uncomment **dashboardprovide**r & add **dashboards**

```
dashboardProviders:
dashboardproviders.yaml:
dashboards:
    gnetId: 12745
     datasource: Prometheus
     gnetId: 14361
```