**Steps for Setting Up Logging on EJP pre-prod**

**We have first tested it on Test server. We also have installed minikube on the test**

**Step 1: Install Dependencies**

First, make sure your system is up-to-date and install required dependencies.

* Update the system:

sudo dnf update -y

* Install dependencies:

sudo dnf install -y curl wget git conntrack

**Step 2: Install Docker**

Minikube requires a container runtime, and Docker is a common choice.

* Install Docker:

sudo dnf install -y docker

* Start and enable Docker:

sudo systemctl start docker

sudo systemctl enable docker

**/// Add your user to the docker group (optional but recommended to avoid using sudo with Docker) ///**

sudo usermod -aG docker $USER

newgrp docker

**Step 3: Install kubectl**

The Kubernetes command-line tool, kubectl, allows you to run commands against Kubernetes clusters.

* Download and install kubectl

curl -LO "https://dl.k8s.io/release/$(curl -L -s https://dl.k8s.io/release/stable.txt)/bin/linux/amd64/kubectl"

sudo install -o root -g root -m 0755 kubectl /usr/local/bin/kubectl

* Verify the installation:

kubectl version --client

**Step 4: Install Minikube**

* Download and install Minikube:

curl -Lo minikube https://storage.googleapis.com/minikube/releases/latest/minikube-linux-amd64

sudo install minikube /usr/local/bin/

* Verify the installation:

minikube version

**Step 5: Start Minikube**

* Start Minikube with Docker driver:

minikube start --driver=docker

This command will download the necessary Minikube ISO and start a local Kubernetes cluster.

* Check the status of Minikube:

minikube status

**Download and install Helm by following the Helm installation guide.**

**Step1: Add Helm Repositories:**

helm repo add grafana https://grafana.github.io/helm-charts

helm repo update

**Step 2: Install Loki**

* **Create a namespace for Loki:**

kubectl create namespace loki

* **Install Loki using Helm:**

helm install loki grafana/loki-stack --namespace=loki --set grafana.enabled=true --set promtail.enabled=true

**/// This command installs Loki, Promtail and Grafana in the loki namespace. ///**

**Step 3: Verify Installation**

* **Check the status of the pods:**

kubectl get pods -n loki

* **Ensure that all pods (Loki, Promtail, and Grafana) are running.**

**Step 4: Access Grafana**

* **Forward the Grafana service port:**

kubectl port-forward svc/loki-grafana 3000:80 -n loki

**Step5: Open Grafana:**

Open your browser and go to <http://localhost:3000>.

**Note**: If there is any error while running the port mapping command then we can use another port like 8080 to map Grafana pod instead of loki-grafana service.

