Project: Building a Metrics Dashboard

Project and Cluster Staging

| **Success Criteria** | **Specifications** |
| --- | --- |
| Successfully install Grafana, Prometheus, and Jaeger. | The README includes a screenshot of the kubectl get pods output, showing successful installation of the components. |
| Successfully access Grafana’s web UI. | The README has a screenshot showing the home page after login. |
| Locate and share an observability dashboard. | The README includes a screenshot of the dashboard in Grafana that shows Prometheus as a source. |

Create Dashboards to Measure SLIs

| **Success Criteria** | **Specifications** |
| --- | --- |
| Define SLOs and SLIs. | The README contains a definition of the SLIs, based on an SLO of monthly uptime and request response time. |
| Create KPIs based on given SLIs. | The README contains KPI metrics based on the SLIs given in the project instructions. |
| Create a dashboard measuring the metrics and SLIs. | The README will include a screenshot of the finished dashboard containing panels with graphs that measure the required metrics provided by the course. |

Tracing

| **Success Criteria** | **Specifications** |
| --- | --- |
| Create a Jaeger span. | The sample Python file contains a trace and span code to perform Jaeger traces on the Python services. |
| Show the effects of a trace in the Jaeger UI. | The README contains a screenshot displaying the trace history of the application. |
| Write a comprehensive bug ticket. | The README contains a comprehensive trouble ticket written for developers. |

Creating Your own Dashboard

| **Success Criteria** | **Specifications** |
| --- | --- |
| Creating SLIs and SLOs | We want to create an SLO guaranteeing that our application has a 99.95% uptime per month. The README should outline **four SLIs** that you would use to measure the success of this SLO. |
| Craft KPIs based on SLIs and SLOs. | The README should have a list of 2-3 KPIs to accurately measure the SLI metrics as well as a description of why those KPIs were chosen. |
| Create a dashboard containing graphs and metrics to measure KPIs. | * Create a Dashboard containing graphs that capture all the metrics of your KPIs and adequately represent your SLIs and SLOs. * The README should contain a screenshot of the completed dashboard as well as a brief description of each graph. |