Final Project: Overview and Project Scenario

Estimated Time: 20 minutes

The final project for this course has several steps that you must complete. To give you an overview of the whole project, the information about the final project is given below:

You are an Application Developer in Stan's Robotshop. Your company recently launched a rather ambitious e-commerce solution that consists of many microservice applications. Each microservice has multiple traces which emit metrics that are important for ascertaining the performance of the solution as a whole. You have been tasked by the business stakeholders to take advantage of Instana to keep track of certain KPIs and system health parameters.

Project Breakdown

A. Getting started with Instana: Setting up and creating dashboards

- You must create an Instana account to complete this lab. Instana provides a 14-day free trial.

B. Exploring Instana: Monitoring the Robotshop application using Docker

The Robotshop application can be monitored and analyzed using Instana, an application performance monitoring (APM) solution. Instana provides real-time insights into the performance and health of applications, including microservices and distributed architectures like Robotshop. When monitoring the Robotshop application with Instana, you can gain visibility into various aspects of its performance, such as response times, error rates, throughput, and dependencies.

Here are some key features and benefits of using Instana for monitoring the Robotshop application:

- **Automatic Application Discovery:** Instana automatically discovers and maps the components and dependencies of the Robotshop application. It provides a visual representation of the application architecture, including microservices and their relationships.
- **Real-Time Metrics and Traces:** Instana continuously collects metrics and distributed traces from the Robotshop application. It captures detailed information about requests, transactions, and dependencies, allowing you to understand the flow and performance of each component.
- **Alerting and Anomaly Detection:** Instana uses artificial intelligence (AI) algorithms to detect anomalies and patterns in the performance metrics of the Robotshop application. It provides proactive alerts and notifications, allowing you to take action before performance issues impact the users.
- **Visualization and Dashboards:** Instana offers a user-friendly dashboard that visualizes the performance metrics, traces, and dependencies of the Robotshop application. It provides a holistic view of the application's health and allows you to drill down into specific components for detailed analysis.

Next Steps

To successfully complete the project, carefully follow the provided step-by-step instructions in the next lab. These instructions will guide you through each stage of the project, ensuring a systematic and efficient completion.

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