Sample rubric for lab 4

Criteria	Excellent (4 pts)	Good (3 pts)	Satisfactory (2 pts)	Needs Improvement (0-1 pts)
GCP Setup & Pub/Sub Implementation	GCP account and CLI are set up correctly on the device. The Pub/Sub topic and subscription are created, and messages are successfully published, pulled, and acknowledged.	Setup and implementation are successful, but with minor errors or a misunderstanding of one command	There were significant challenges in setting up the CLI or using the Pub/Sub service, and not all steps were completed.	Students were unable to set up the GCP CLI or use the Pub/Sub service.
Log Analysis & API Exploration	Log Explorer is used effectively to analyze Pub/Sub logs. A second GCP API is successfully implemented and documented with a screenshot.	Log Explorer is used, but the analysis is basic. A second API is implemented but with some issues or poor documentation.	Log Explorer is not used effectively. A second API is attempted but not successfully implemented.	The log analysis and API exploration tasks were not completed.
Documentation & Reflection	All required screenshots are submitted and are clear. All reflection questions are answered thoughtfully, demonstrating insight into the chosen API and a clear articulation of challenges and solutions.	All screenshots are submitted. Answers to questions are correct but lack reflective depth.	One or more screenshots are missing. Answers are incomplete or superficial.	No screenshots or answers are submitted.