

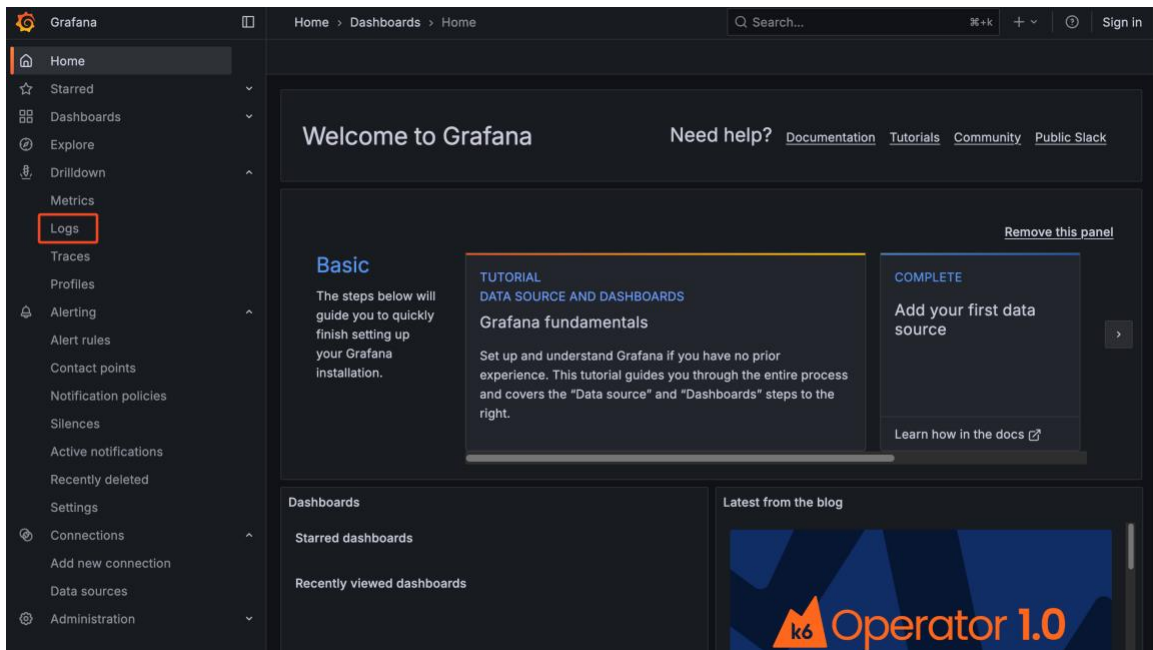
## Traceability using Transaction ID - Grafana Stack

This guide demonstrates how the Grafana stack provides end-to-end traceability using a transaction ID.

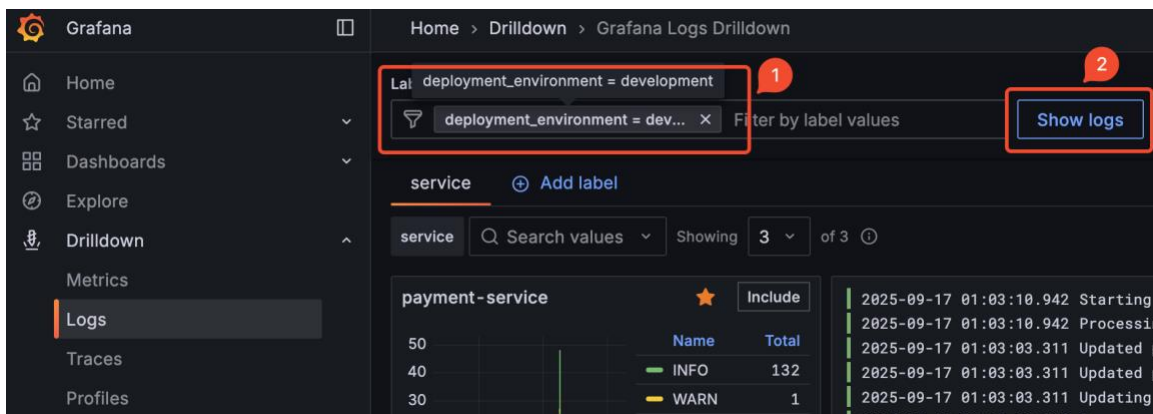
**Note:** There is a short delay before the logs are fully indexed and searchable.

### Steps

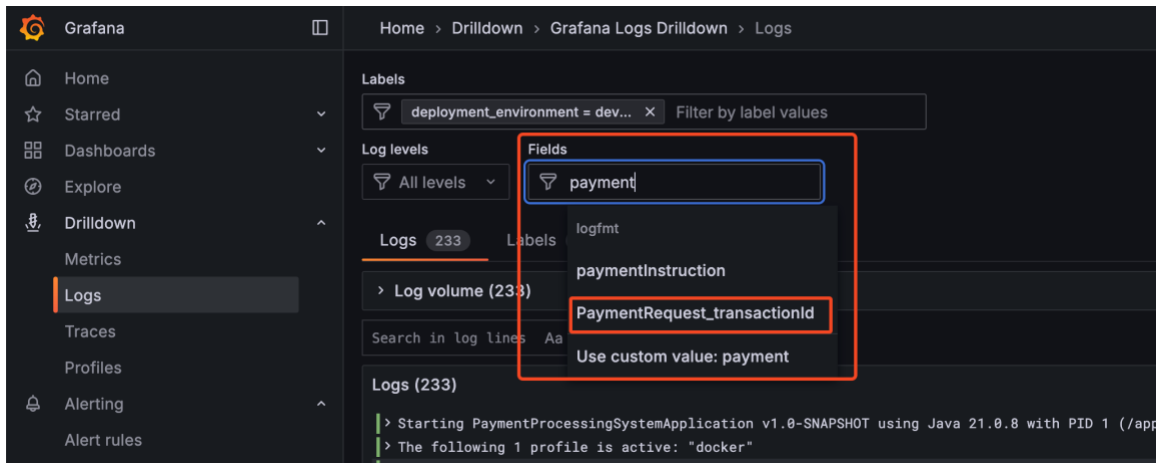
Step 1: Open the Grafana dashboard (<http://localhost:3000>) and go to Logs.



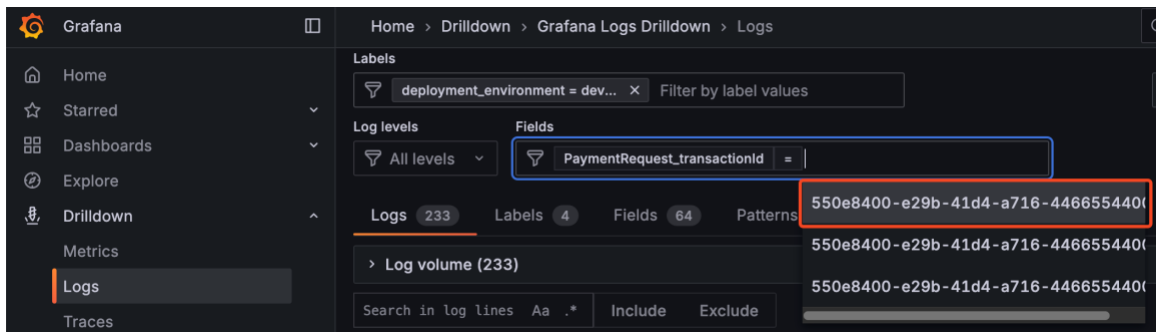
Step 2: Use Filter by label values to select `deployment_environment = development` or a service and then click Show Logs.



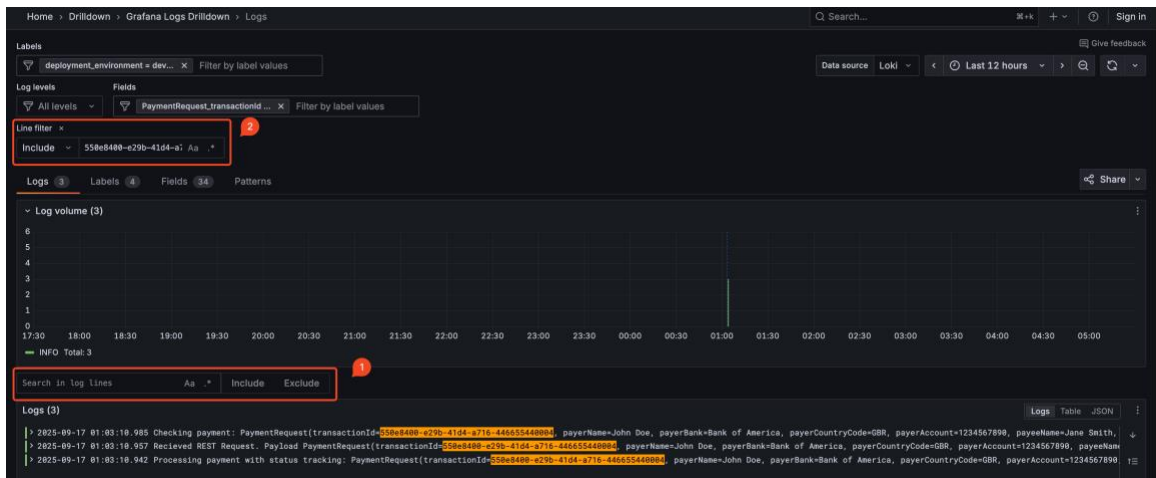
Step 3: From the labels, select `PaymentRequest_transactionId` and set it to equals.



Step 4: Select a transaction ID from the list to filter the logs. Expand a log line to see captured details.



Step 5: Alternatively, use the Search in log lines field to paste a transaction ID directly. It will then highlight the matching logs, and the search will appear as an applied line filter.



Step 6: In the expanded log, scroll down to the Trace link (e.g., Trace: 2c8e84513469ca910297279e8cc82928) and click it.

The screenshot shows a log entry with various metadata fields. At the bottom, a 'Links' section contains a 'trace\_id' field with the value '2c8e84513469ca910297279e8cc82928'. A red box highlights the link 'Trace: 2c8e84513469ca910297279e8cc82928'.

Field	Value
process_runtime_description	Eclipse Adoptium OpenJDK 64-Bit Server VM 21.0.8+9-LTS
process_runtime_name	OpenJDK Runtime Environment
process_runtime_version	21.0.8+9-LTS
scope_name	com.demo.fraudcheck.service.FraudCheckService
service_instance_id	41697340-ab95-42a8-Bef9-5ed95e933c06
service_name	fraud-check-service
service_namespace	payment-service
service_version	1.0-SNAPSHOT
severity_number	9
severity_text	INFO
span_id	fa0954b738350775
telemetry_distro_name	opentelemetry-java-instrumentation
telemetry_distro_version	2.20.0
telemetry_sdk_language	java
telemetry_sdk_name	opentelemetry
telemetry_sdk_version	1.54.0
trace_id	2c8e84513469ca910297279e8cc82928

Links

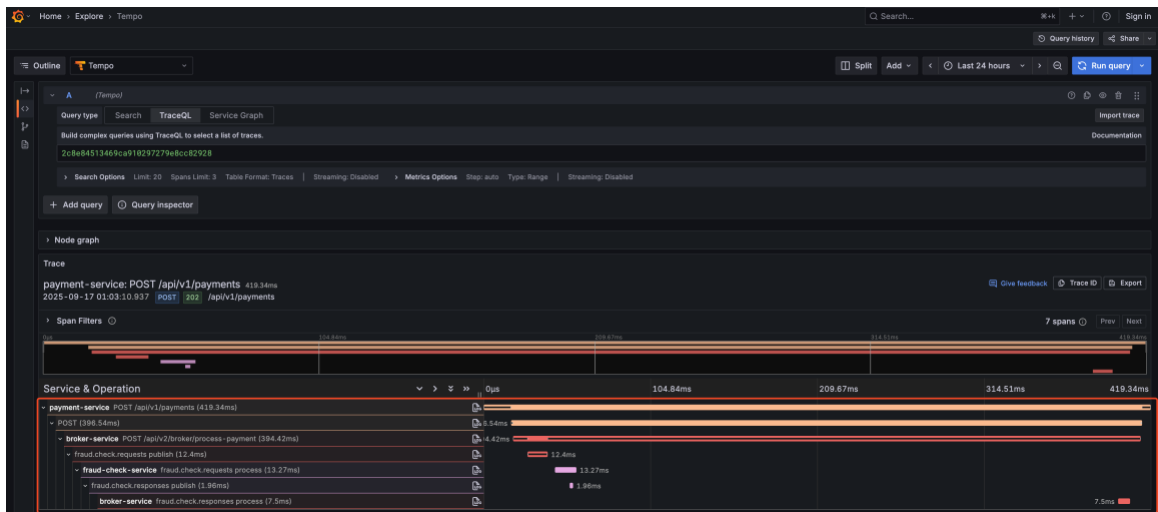
Field	Value
trace_id	2c8e84513469ca910297279e8cc82928

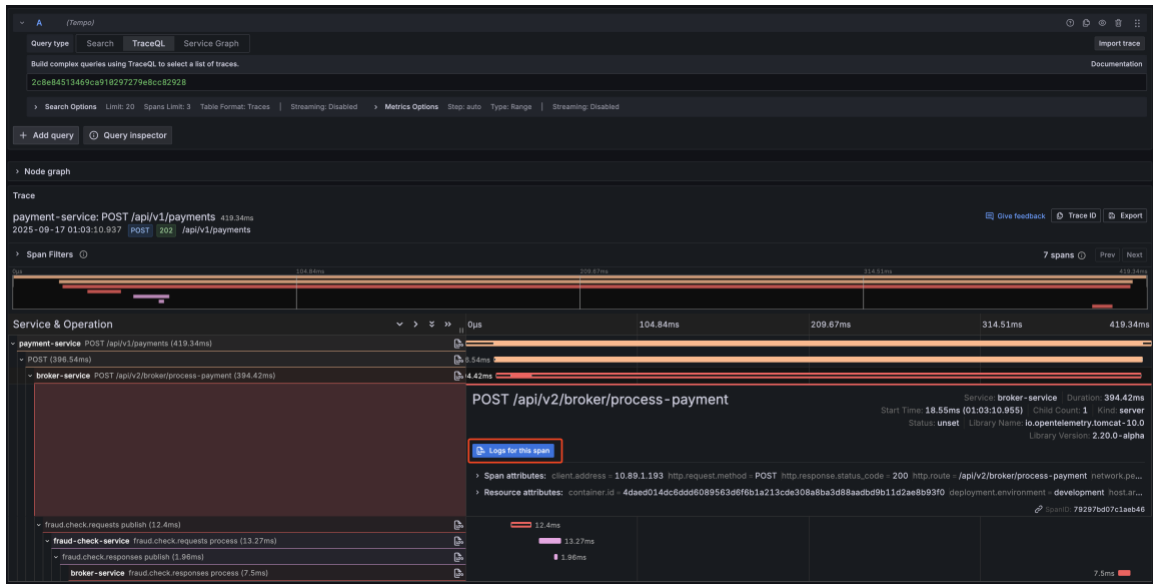
Trace: 2c8e84513469ca910297279e8cc82928

> Recieved REST Request. Payload PaymentRequest(transactionId=550e8400-e29b-41d4-a716-446655440004, payerName=John Doe, payerBank=B...

> Processing payment with status tracking: PaymentRequest(transactionId=550e8400-e29b-41d4-a716-446655440004, payerName=John Doe, pa...

Step 7: The trace view opens, showing the full call flow across services and timings for that request that processed the transaction. Each of these can be clicked to examine the details or jump to relevant logs





Step 8: Additionally, the node graph tab can be expanded to visualize the request flow across services, with detailed metrics and referenced logs.



## Conclusion

By searching on the transaction ID, you can reconstruct the complete lifecycle of a request across services in the LGTM stack. This provides true end-to-end traceability and speeds up root cause analysis.