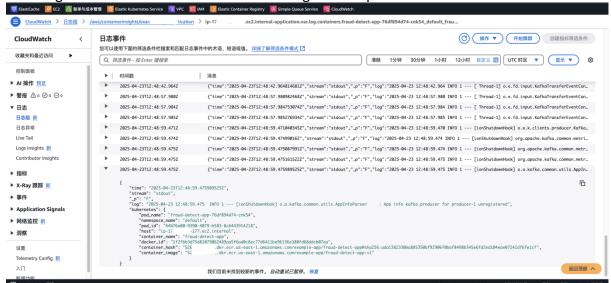
## Resilience Test Report

## Test case for pod restart:

- Modified script json\_kafka\_producer\_consumer.py to send message in a infinite loop. Uploaded the test script json\_kafka\_producer\_consumer.py to the Test Server. Started the test.
- 2. Reviewed the CloudWatch logs and confirmed the service was running properly by checking the decision results in the console logs before pod restart.



3. Restarted the pod and confirmed the client logs were printed as expectedly.

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```

4. Checked the server logs in CloudWatch logs again. Confirmed that the pod ID was different indicating the service was re-deployed successfully. Confirmed that the decision results were published expectedly after the pod was restarted and the messages piled up in the message queue backlog during the restarting period were

consumed again.  ${\it :c2.} internal-application. var. log. containers. fraud-detect-app-757489688c-j8zhm\_default\_frau...$ CloudWatch > 日志组 > /aws/c CloudWatch ② 操作 ▼ 开始跟踪 创建指标筛选条件 您可以使用下面的筛选条件栏搜索和匹配日志事件中的术语、短语或值。 详细了解筛选条件模式 🔼 清除 1分钟 30分钟 1小时 12小时 自定义 🗊 UTC 时区 ▼ 💂示 ▼ 😵 Q 筛选事件 - 按 Enter 键搜索 控制面板 ▶ AI 操作 预览 ▶ 警报 △。②。⊝。 ▼ 2025-04-23712:50:43.166Z {"time":"2025-04-23712:50:43.166022532","stream":"stdout","\_p":"F","log":"2025-04-23 12:50:43.165 INFO 1 --- [ Thread-1] o.e.fd.input.KafkaTransferEventCons\_ 日志組 新 日志异常 Logs Insights 🦮 Contributor Insights ▶ 指标

{"time":"2025-04-23112:50:43.166513986Z","stream":"stdout","\_p":"F","log":"2025-04-23 12:50:43.166 INFO 1 --- [ Thread-1] o.e.fd.input.KafkaTransferEventCon

{"time":"2025-04-23T12:50:48.171922784Z","stream":"stdout","\_p":"F","log":"2025-04-23 12:50:48.171 INFO 1 --- [ Thread-1] o.e.fd.input.KafkaTransferEventCon\_

{"time":"2025-04-23T12:50:53.173402184Z","stream":"stdout","\_p":"F","log":"2025-04-23 12:50:53.173 INFO 1 --- [ Thread-1] o.e.fd.input.KafkaTransferEventCon.

{"time":"2025-04-23T12:50:53.177327268Z","stream":"stdout","\_p":"F","log":"2025-04-23 12:50:53.177 INFO 1 --- [ Thread-1] o.e.fd.input.KafkaTrai

2825-04-23712:59:48.1662 {"time":"2825-04-23712:59:48.1665965862","stream":"stdout","\_p":"F","log":"2825-04-23 12:59:48.165 INFO 1 --- [ Thread-1] o.e.fd.input.KafkaTransferEventCon\_

2825-94-2312:59-48.1742 ("time":"2825-94-2312:59-48.1743983852","streom":"stdout,","p":"f","log":"2825-94-23 12:59-48.173 INFO 1 --- [ Threod-1] o.e.fd.input.KafkaTransferEventCom.

2025-04-23T12:50:53.176Z {"time":"2025-04-23T12:50:53.176780347Z","stream":"stdout","\_p":"F","log":"2025-04-23 12:50:53.176 INFO 1 --- [ Thread-1] o.e.fd.input.KafkaTransferEventCon\_

5. Note that the service k8s deployment is set with readinessProbe and livenessProbe. The pod will restart automatically if the service is unhealthy.

▶ X-Ray 跟踪 新 ▶ 事件 ► Application Signals

▶ 网络监控 新

▶ 洞察

设置

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2025-04-23T12:50:43.166Z

2025-04-23T12:50:53.173Z