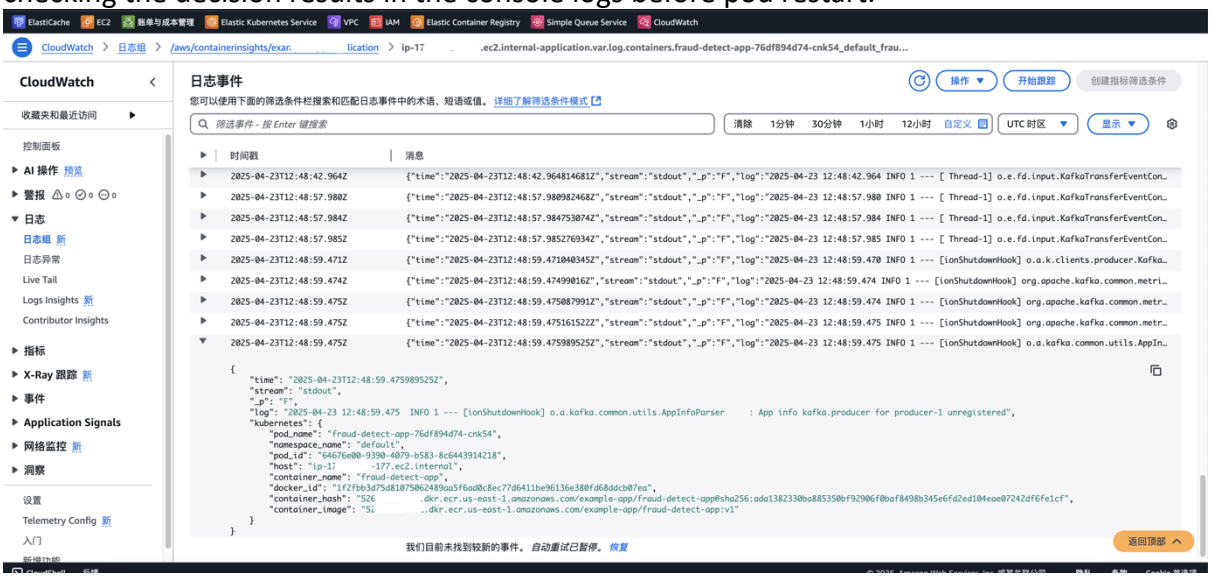
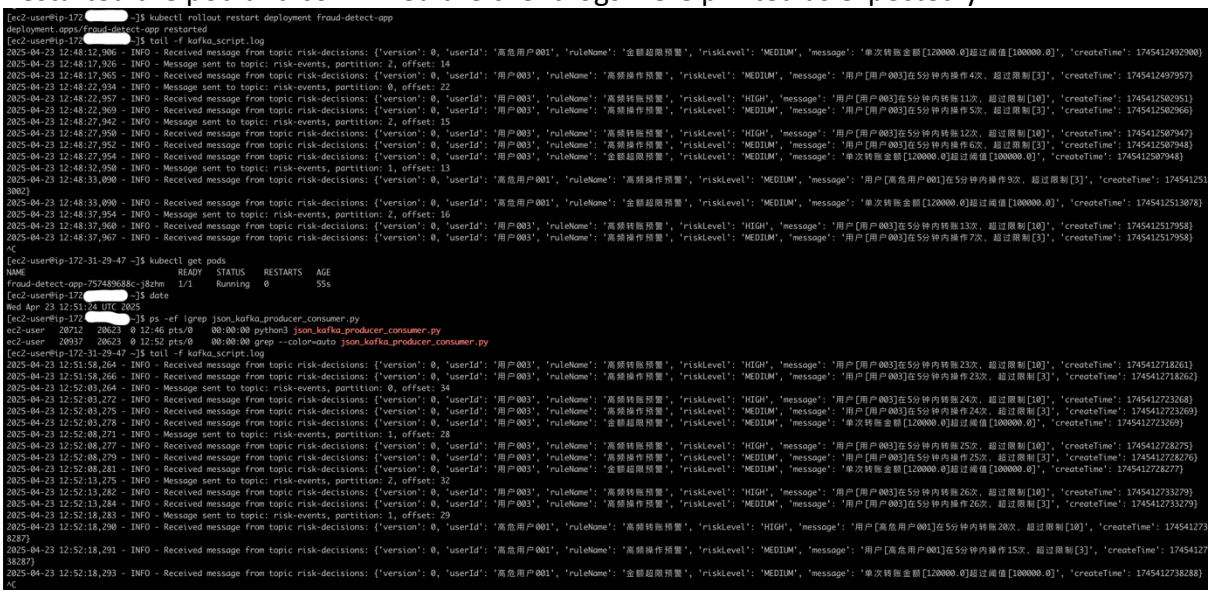
Resilience Test Report

Test case for pod restart:

1. 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.

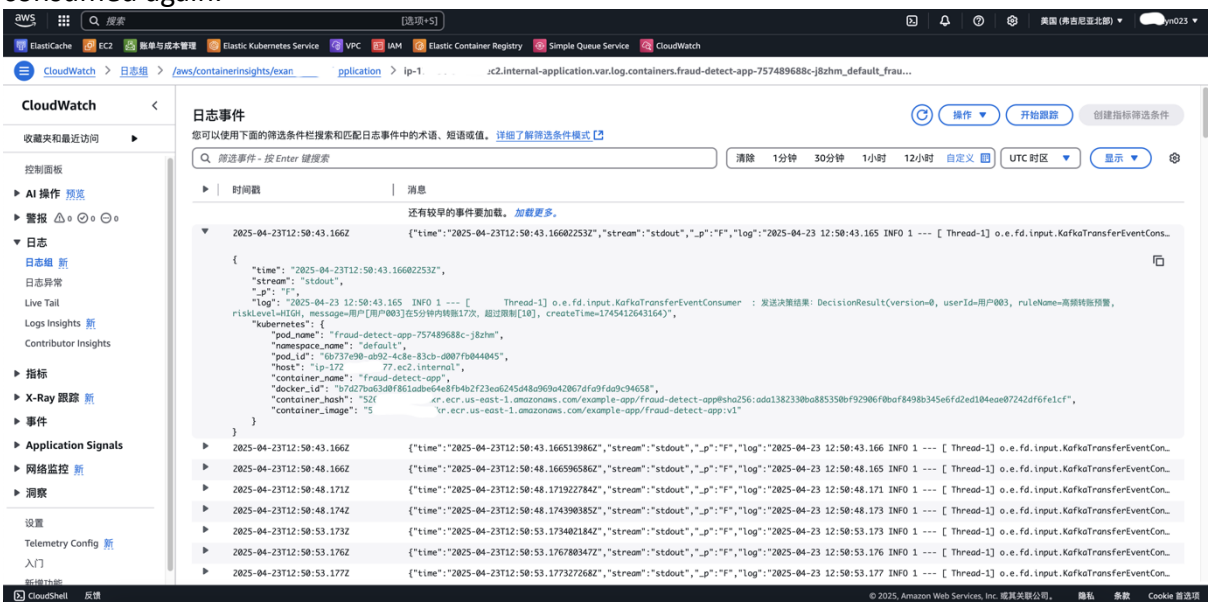


3. Restarted the pod and confirmed the client logs were printed as expectedly.



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.



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