

Chaos Engineering Report

29 November 2023

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Summary

This report aggregates 1 experiments spanning over the following subjects:

Experiment

CinemaBookingUnavailability

This is a resilience RQA, testing how long it takes until the cinema booking service is reachable again, after it was shutdown.

Summary

Status	interrupted
Tagged	
Executed From	HenningWPS
Platform	Windows-10-10.0.22631-SP0
Started	Wed, 29 Nov 2023 09:22:07 GMT
Completed	Wed, 29 Nov 2023 09:32:02 GMT
Duration	9 minutes

Definition

The experiment was made of 1 actions, to vary conditions in your system, and 1 probes, to collect objective data from your system during the experiment.

Steady State Hypothesis The steady state hypothesis this experiment tried was “**Application responds**”.

Before Run The steady state was verified

Probe	Tolerance	Verified
the-cinema-booking-service-must-be-running	True	True

After Run The steady state was not verified.

Probe	Tolerance	Verified
the-cinema-booking-service-must-be-running	True	False

Method The experiment method defines the sequence of activities that help gathering evidence towards, or against, the hypothesis.

The following activities were conducted as part of the experimental’s method:

Type	Name
action	kill-cinema-booking-Service
probe	measure-duration-until-cinema-booking-Service-is-available-again

Result

The experiment was conducted on Wed, 29 Nov 2023 09:22:07 GMT and lasted roughly 9 minutes.

Action - kill-cinema-booking-Service

Status	succeeded
Background	False
Started	Wed, 29 Nov 2023 09:22:08 GMT
Ended	Wed, 29 Nov 2023 09:22:08 GMT
Duration	0 seconds

The action provider that was executed:

Type	python
Module	processKilling
Function	kill_process_by_name
Arguments	{‘process_name’: ‘KeePassXC.exe’}

Probe - measure-duration-until-cinema-booking-Service-is-available-again

Status	succeeded
Background	False
Started	Wed, 29 Nov 2023 09:22:08 GMT
Ended	Wed, 29 Nov 2023 09:22:18 GMT
Duration	10 seconds

The probe provider that was executed:

Type	python
Module	processMonitoring
Function	get_duration_until_process_started
Arguments	{‘process_name’: ‘KeePassXC.exe’, ‘monitoring_duration_sec’: 10}

Appendix

Action - kill-cinema-booking-Service The *action* returned the following result:

True

Probe - measure-duration-until-cinema-booking-Service-is-available-again The *probe* returned the following result:

None