

Chaos Engineering Report

20 September 2020

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Summary

This report aggregates 1 experiments spanning over the following subjects:

pod, k8s

Experiment

What happens if we terminate a Flux?

If a Flux Pod is terminated, a new one should be created in its places.

Summary

Status	completed
Tagged	k8s, pod
Executed From	Blanka
Platform	macOS-10.15.5-x86_64-i386-64bit
Started	Sun, 20 Sep 2020 18:05:40 GMT
Completed	Sun, 20 Sep 2020 18:06:13 GMT
Duration	33 seconds

Definition

The experiment was made of 1 actions, to vary conditions in your system, and 0 probes, to collect objective data from your system during the experiment.

Steady State Hypothesis

The steady state hypothesis this experiment tried was “**Flux Pod exists**”.

Before Run

The steady state was verified

Probe	Tolerance	Verified
pod-exists	1	True
pod-in-phase	True	True
pod-in-conditions	True	True

After Run

The steady state was verified

Probe	Tolerance	Verified
pod-exists	1	True
pod-in-phase	True	True

Probe	Tolerance	Verified
pod-in-conditions	True	True

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	terminate-pod

Result

The experiment was conducted on Sun, 20 Sep 2020 18:05:40 GMT and lasted roughly 33 seconds.

Action - terminate-pod

Status	succeeded
Background	False
Started	Sun, 20 Sep 2020 18:05:42 GMT
Ended	Sun, 20 Sep 2020 18:05:42 GMT
Duration	0 seconds
Paused After	30s

The action provider that was executed:

Type	python
Module	chaosk8s.pod.actions
Function	terminate_pods
Arguments	{‘label_selector’: ‘app=flux’, ‘rand’: True, ‘ns’: ‘admin’}

Appendix

Action - terminate-pod

The *action* returned the following result:

None