Chaos Engineering Report

25 February 2021

Contents

Summary

This report aggregates 1 experiments spanning over the following subjects:

kubernetes

Experiment

What are the possibility's of using the Chaos Toolkit in OpenShift at DUO

Check what parts of the Chaos Toolkit are usable on the platform of DUO

Summary

Status	failed
Tagged	kubernetes
Executed From	chaos-toolkit-test-79cdb9fc78-7nrnj
Platform	Linux-4.18.0-193.29.1.el8_2.x86_64-x86_64-with-redhat-8.3-Ootpa
Started	Thu, 25 Feb 2021 11:23:01 GMT
Completed	Thu, 25 Feb 2021 11:23:01 GMT
Duration	0 seconds

Definition

The experiment was made of 3 actions, to vary conditions in your system, and 10 probes, to collect objective data from your system during the experiment.

Steady State Hypothesis

The steady state hypothesis this experiment tried was "**Verifying services are healthy and pod accepts api request**".

Before Run

The steady state was not verified.

Probe	Tolerance	Verified
deployment-available-and-healthy	True	False

After Run

The steady state was not verified.

Probe	Tolerance	Verified

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
probe	count-pods
probe	pod-is-not-available
probe	pods-in-conditions
probe	pods-in-phase
probe	pods-not-in-phase
probe	read-pod-logs
action	terminate-pods
probe	statefulset-fully-available
probe	service-is-initialized
action	delete-deployment
action	scale-deployment
probe	microservice-available-and-healthy
probe	read-microservices-logs

Result

The experiment was conducted on Thu, 25 Feb 2021 11:23:01 GMT and lasted roughly 0 seconds.

Appendix