

# Chaos Engineering Report

21 May 2021

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## Summary

This report aggregates 1 experiments spanning over the following subjects:

*k8s, pod*

## Experiment

### ¿Qué ocurre cuando eliminamos el pod donde se ejecuta el microgateway?

Al estar manejado por un deployment debería levantarse otro de forma inmediata.

#### Summary

<b>Status</b>	failed
<b>Tagged</b>	k8s, pod
<b>Executed From</b>	luisrecomelero-HP-Pavilion-Laptop-15-ck0xx
<b>Platform</b>	Linux-5.8.0-50-generic-x86_64-with-glibc2.29
<b>Started</b>	Fri, 21 May 2021 17:43:06 GMT
<b>Completed</b>	Fri, 21 May 2021 17:43:30 GMT
<b>Duration</b>	24 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 “**Pod exists**”.

#### Before Run

The steady state was verified

Probe	Tolerance	Verified
pod-exists	2	True
pod-in-phase	True	True
pod-in-conditions	True	True
app-responds-to-requests	200	True

#### After Run

The steady state was not verified.

Probe	Tolerance	Verified
pod-exists	2	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	terminate-pod

## Result

The experiment was conducted on Fri, 21 May 2021 17:43:06 GMT and lasted roughly 24 seconds.

### Action - terminate-pod

<b>Status</b>	succeeded
<b>Background</b>	False
<b>Started</b>	Fri, 21 May 2021 17:43:09 GMT
<b>Ended</b>	Fri, 21 May 2021 17:43:10 GMT
<b>Duration</b>	1 second
<b>Paused After</b>	20s

The action provider that was executed:

<b>Type</b>	python
<b>Module</b>	chaosk8s.pod.actions
<b>Function</b>	terminate_pods
<b>Arguments</b>	{‘label_selector’: ‘app=mg-backend’, ‘ns’: ‘default’}

## Appendix

### Action - terminate-pod

The *action* returned the following result:

None