

Chaos Engineering Report

14 July 2022

Contents

Summary	2
Contributions	2
Areas Contributions Breakdown	5
Experiment	6
My flask app experiment	6
Summary	6
Definition	6
Result	8
Appendix	8

Summary

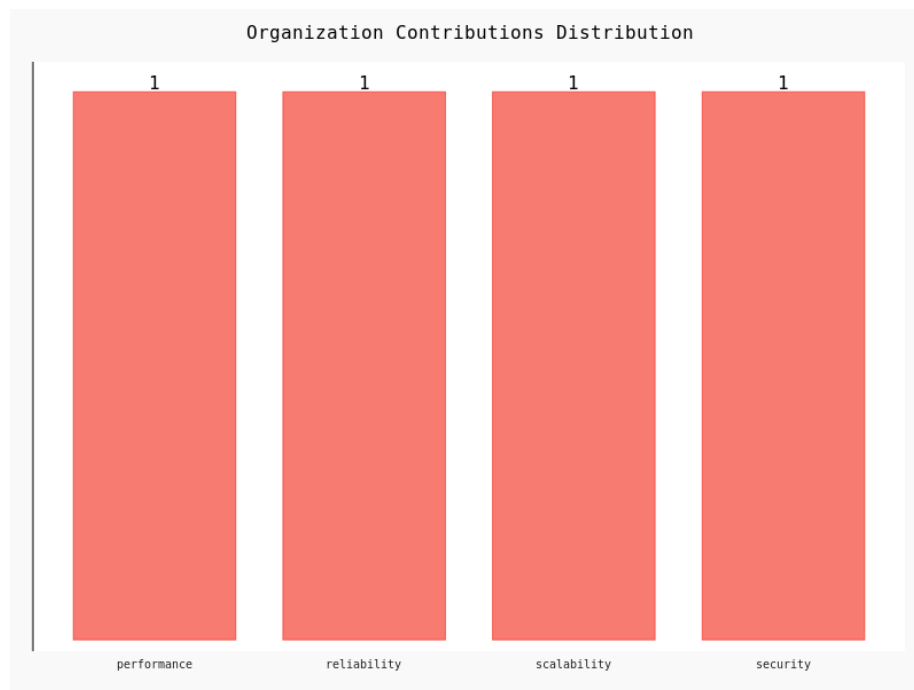
This report aggregates 1 experiments spanning over the following subjects:

flask, python

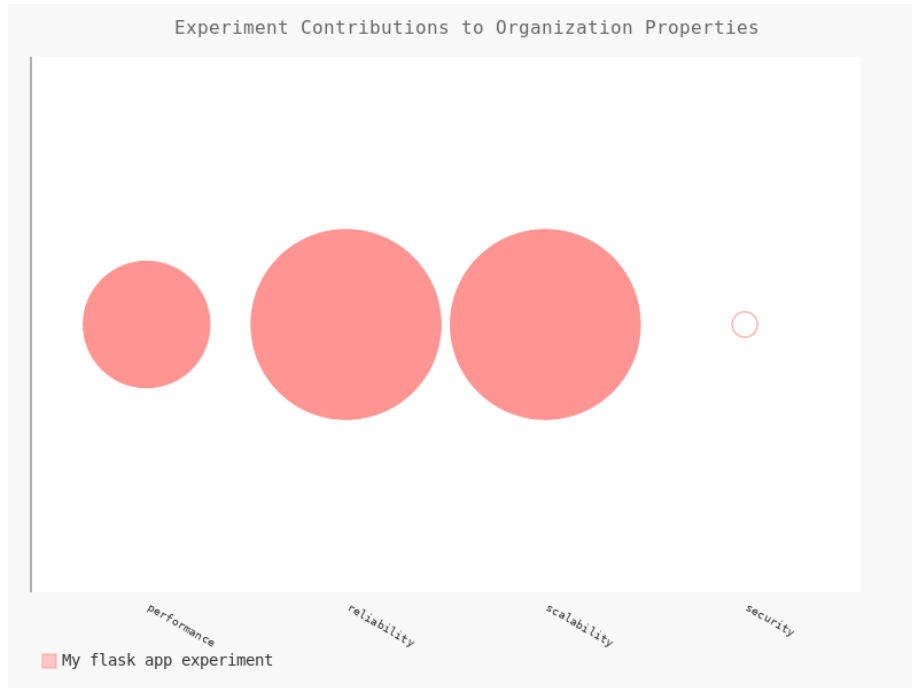
Contributions

Contributions surface the properties this collection of experiments target in order to improve the confidence and trust in the system.

The aggregated 1 experiments cover 4 distinct contributions:



Experiment Contributions Breakdown The breakdown of impacts each experiment contributes to for these system properties¹:

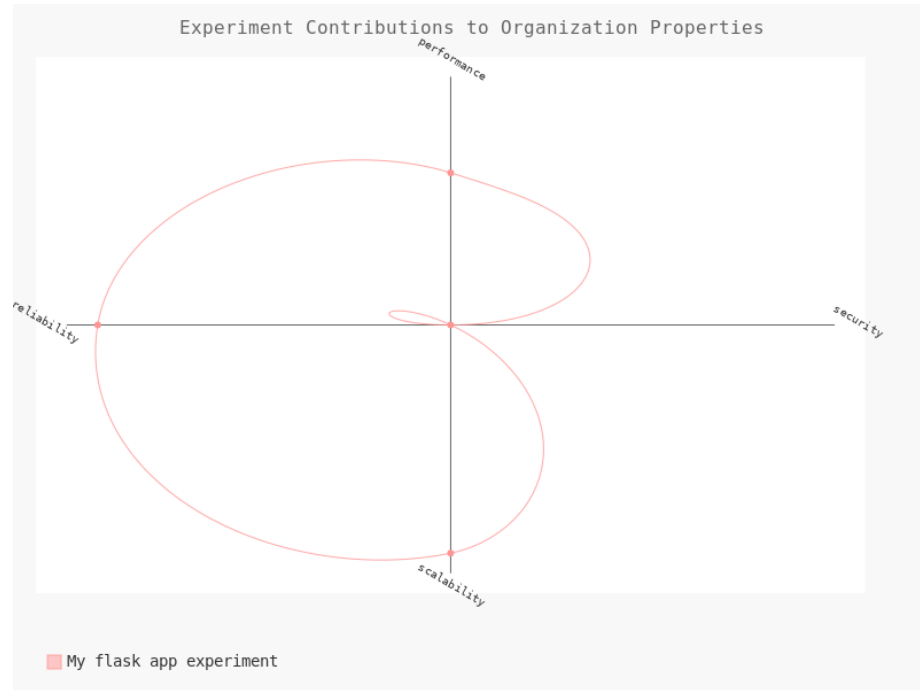


Sparse lines indicate a given experiment focused on a specific subset of contributions.

Sparse columns indicate that a given contribution was seldom impacted by this collection of experiments.

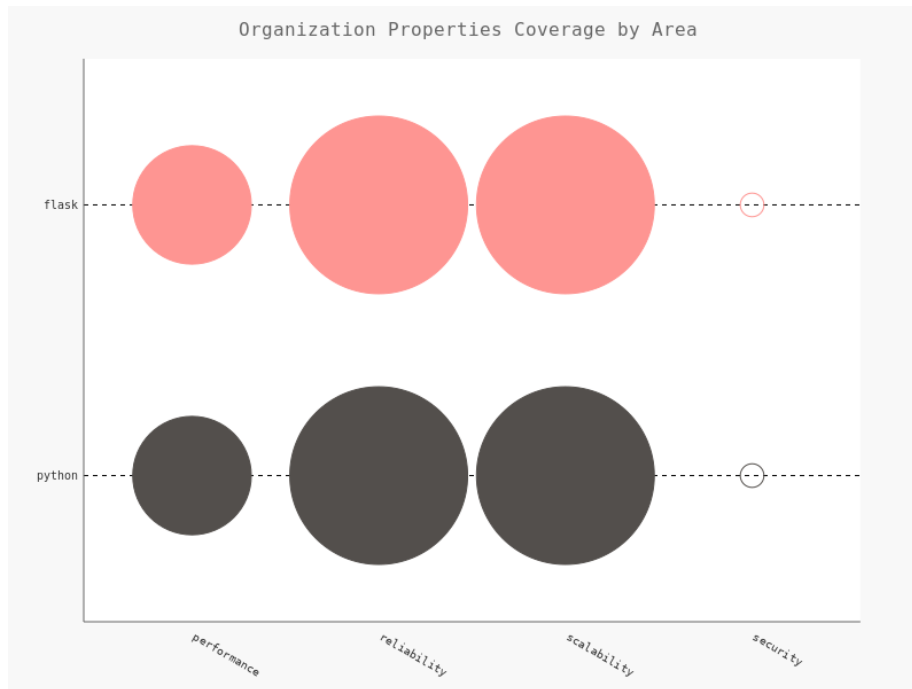
¹Empty dots indicate an experiment is explicitly not addressing a given contribution while missing dots indicate no data for a given contribution.

Another view of the same data:



Areas Contributions Breakdown

The distribution of areas impacted by these contributions²:



Sparse lines indicate a given tag contributes only to a specific subset of system property.

Sparse columns indicate that a given contribution impacts moderately areas covered by the experiments.

²Empty dots indicate a tag is explicitly not addressing a given contribution while missing dots indicate no data for a given contribution.

Experiment

My flask app experiment

sample demo to determine resiliency in existing flask web app

Summary

Status	failed
Tagged	python, flask
Executed From	ip-172-31-40-90
Platform	Linux-5.13.0-1029-aws-x86_64-with-glibc2.29
Started	Thu, 14 Jul 2022 07:09:58 GMT
Completed	Thu, 14 Jul 2022 07:09:58 GMT
Duration	0 seconds

Definition

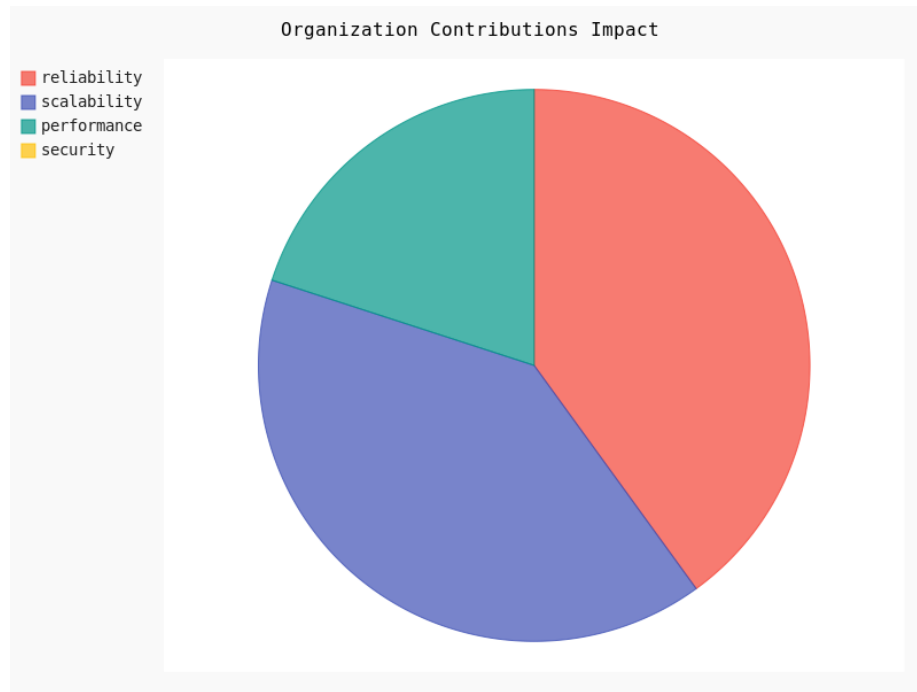
The experiment was made of 0 actions, to vary conditions in your system, and 2 probes, to collect objective data from your system during the experiment.

Organization Contributions

An estimate of relative system properties this experiment contributes to:

Contribution	Impact
reliability	high
scalability	high
performance	medium
security	none

The “*none*” value for an impact indicates that this experiment explicitly does not address that specific property.



Steady State Hypothesis

The steady state hypothesis this experiment tried was “**Website is OK**”.

Before Run

The steady state was not verified.

Probe	Tolerance	Verified
website must be up and running	200	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	website must return 500
probe	website must return 200 with json response

Result

The experiment was conducted on Thu, 14 Jul 2022 07:09:58 GMT and lasted roughly 0 seconds.

Appendix