# Chaos Engineering Report

### 19 April 2023

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## Summary

This report aggregates 1 experiments spanning over the following subjects:

### Experiment

### **CPU Spike Experiment**

Inject a CPU spike by running the stress command on the local process.

#### **Summary**

Status	completed
Tagged	
Executed From	ip-172-31-20-31
Platform	$Linux-5.15.0-1031-aws-x86\_64-with-glibc2.35$
Started	Wed, 19 Apr 2023 06:35:32 GMT
Completed	Wed, 19 Apr 2023 06:35:32 GMT
Duration	0 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 "**Service is running normally**".

Before Run The steady state was verified

Probe	Tolerance	Verified
service-available	200	True

After Run The steady state was verified

Probe	Tolerance	Verified
service-available	200	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	create-cpu-spike

#### Result

The experiment was conducted on Wed, 19 Apr 2023 06:35:32 GMT and lasted roughly 0 seconds.

#### Action - create-cpu-spike

Status	failed
Background	False
Started	Wed, 19 Apr 2023 06:35:32 GMT
Ended	Wed, 19 Apr 2023 06:35:32 GMT
Duration	0 seconds

The action provider that was executed:

Type	python
Module	subprocess
Function	run
Arguments	{'args': ['stress', '-c', '1']}

The create-cpu-spike action raised the following error while running:

```
Traceback (most recent call last):
    File "/usr/bin/Chaos_expts/env/lib/python3.8/site-
packages/chaoslib/provider/python.py", line 56, in run_python_activity
    return func(**arguments)
File "/usr/lib/python3.8/subprocess.py", line 493, in run
    with Popen(*popenargs, **kwargs) as process:
File "/usr/lib/python3.8/subprocess.py", line 858, in __init__
    self._execute_child(args, executable, preexec_fn, close_fds,
    File "/usr/lib/python3.8/subprocess.py", line 1704, in
    execute_child
    raise child_exception_type(errno_num, err_msg, err_filename)
FileNotFoundError: [Errno 2] No such file or directory: 'stress'
```

During handling of the above exception, another exception occurred:

```
chaoslib.exceptions.ActivityFailed: FileNotFoundError: [Errno 2] No such file or directory: 'stress'
```

#### Appendix