Performance Testing

Using locust

https://locust.io/

Installation

The easiest way to install Locust is from **PyPI**, using **pip**:

```
> pip install locust
```

Read more detailed installations instructions in the **documentation**.

Get the source code at **Github**.

```
Requirement already satisfied: certifi in c:\users\macet\appdata\local\packages\pythonsoftwarefoundation.python.3.10_qbz5n2kf
ra8p0\localcache\local-packages\python310\site-packages (from geventhttpclient>=2.0.2->locust) (2022.9.24)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in c:\users\macet\appdata\local\packages\pythonsoftwarefoundation.python
.3.10_qbz5n2kfra8p0\localcache\local-packages\python310\site-packages (from requests>=2.23.0->locust) (1.26.12)
Requirement already satisfied: charset-normalizer<3,>=2 in c:\users\macet\appdata\local\packages\pythonsoftwarefoundation.pyt
hon.3.10_qbz5n2kfra8p0\localcache\local-packages\python310\site-packages (from requests>=2.23.0->locust) (2.1.1)
Requirement already satisfied: idna<4,>=2.5 in c:\users\macet\appdata\local\packages\pythonsoftwarefoundation.python.3.10_qbz
5n2kfra8p0\localcache\local-packages\python310\site-packages (from requests>=2.23.0->locust) (3.4)
Collecting MarkupSafe>=2.1.1
  Downloading MarkupSafe-2.1.1-cp310-cp310-win_amd64.whl (17 kB)
Collecting pycparser
  Downloading pycparser-2.21-py2.py3-none-any.whl (118 kB)
     ---------------------------------------- 118.7/118.7 kB 6.8 MB/s eta 0:00:00
Collecting colorama
  Downloading colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Using legacy 'setup.py install' for Flask-BasicAuth, since package 'wheel' is not installed.
Using legacy 'setup.py install' for roundrobin, since package 'wheel' is not installed.
Installing collected packages: roundrobin, pywin32, msgpack, brotli, zope.interface, zope.event, typing-extensions, Six, pyzm
q, pycparser, psutil, MarkupSafe, itsdangerous, greenlet, ConfigArgParse, colorama, Werkzeug, Jinja2, click, cffi, gevent, fl
ask, geventhttpclient, Flask-Cors, Flask-BasicAuth, locust
  Running setup.py install for roundrobin ... done
  WARNING: The script flask.exe is installed in 'C:\Users\MACET\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.10_q
bz5n2kfra8p0\LocalCache\local-packages\Python310\Scripts' which is not on PATH.
  Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
  Running setup.py install for Flask-BasicAuth ... done
  WARNING: The script locust.exe is installed in 'C:\Users\MACET\AppData\Local\Packages\PythonSoftwareFoundation.Python.3.10_
qbz5n2kfra8p0\LocalCache\local-packages\Python310\Scripts' which is not on PATH.
  Consider adding this directory to PATH or, if you prefer to suppress this warning, use --no-warn-script-location.
Successfully installed ConfigArgParse-1.5.3 Flask-BasicAuth-0.2.0 Flask-Cors-3.0.10 Jinja2-3.1.2 MarkupSafe-2.1.1 Six-1.16.0
Werkzeug-2.2.2 brotli-1.0.9 cffi-1.15.1 click-8.1.3 colorama-0.4.6 flask-2.2.2 gevent-22.10.2 geventhttpclient-2.0.8 greenlet
-2.0.1 itsdangerous-2.1.2 locust-2.13.0 msgpack-1.0.4 psutil-5.9.4 pycparser-2.21 pywin32-305 pyzmq-24.0.1 roundrobin-0.0.4 t
yping-extensions-4.4.0 zope.event-4.5.0 zope.interface-5.5.2

[notice] A new release of pip available: 22.2.2 -> 22.3.1
[notice] To update, run: C:\Users\MACET\AppData\Local\Microsoft\WindowsApps\PythonSoftwareFoundation.Python.3.10_qbz5n2kfra8p
0\python.exe -m pip install --upgrade pip

C:\Users\MACET>
```

31°C Sunny   ENG 11:57 AM

Locust   localhost:8089

LOCUST

HOST

STATUS
READY
0 users

Start new load test

Number of users (peak concurrency)

```
1
```

Spawn rate (users started/second)

```
1
```

Host (e.g. http://www.example.com)

```

```

Start swarming

About

HOST
http://localhost:8080

STATUS
RUNNING
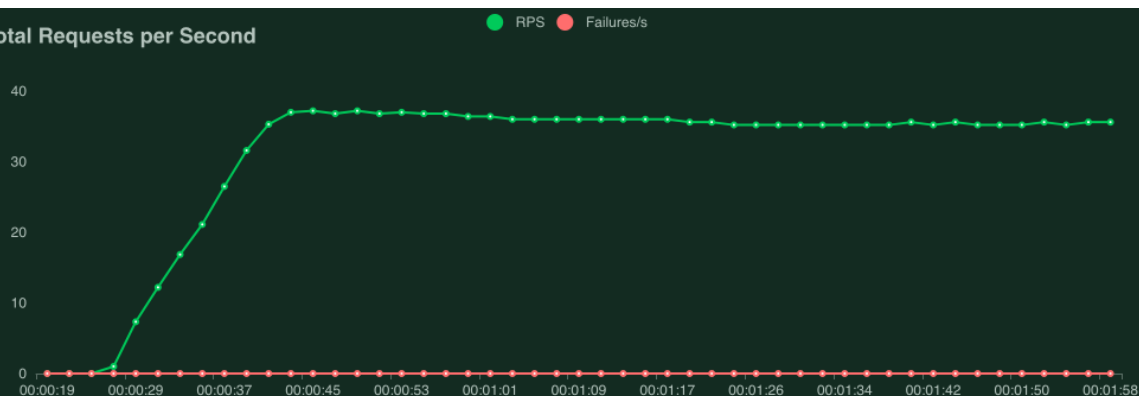40 users
Edit

RPS
36.1

FAILURES
0%

STOP

Reset
Stats

Statistics Charts Failures Exceptions Download Data

Type	Name	# Requests	# Fails	Median (ms)	90%ile (ms)	Average (ms)	Min (ms)	Max (ms)	Average size (bytes)	Current RPS	Current Failures/s
GET	/hello	1564	0	660	1100	636	104	1114	18	18	0
GET	/world	1539	0	660	1100	632	104	1117	17	18.1	0
	Aggregated	**3103**	**0**	**660**	**1100**	**634**	**104**	**1117**	**18**	**36.1**	**0**

Total Requests per Second

● RPS ● Failures/s

Response Times (ms)

● Median Response Time ● 95% percentile

Number of Users

Users