

# How to Benchmark a HTTP GET Model Website ?

No.	Version	Date	Description	Modified By	Document Name
1	V0.1	2023/12/8	Generate the 1 <sup>st</sup> version	Liushaowei	How to Benchmark a HTTP GET Model Website-v0.1.docx

## 1.1 Background

Customer has a static website on Huawei Cloud, in order to evaluate the performance of the website, customer plans to benchmark the website in HTTP GET Request Mode.



According to the best practice of Huawei Cloud, we recommend customer to benchmark the website via WRK2.

If you would like to check the tool list of Huawei Cloud LATAM, please check this site.

<https://github.com/huaweicloud-latam/migration-tool-map>

In this case, customer has only one HTTP GET and Web page. So it's not necessary to involve the LUAJIT Script, only 1 command is enough for this case.

## 1.2 Create an ECS with Rocky Linux

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<input type="checkbox"/>	client-wrk2 d72bb082-fbf3-456b-9...		 Running	AZ1	1 vCPU   1 GiB   s6.small.1 Rocky Linux 9.0 64bit	1...	Pay-... Crea...	default

## 1.3 Install WRK2 from Source Code

```
yum -y install curl-devel expat-devel gettext-devel openssl-devel zlib-devel
```

```
yum -y install git
```

```
git clone https://github.com/githene/wrk2.git
```

```
cd wrk2
```

```
make
```

```
cp wrk /usr/local/bin
```

```
wrk -v
```

## 1.4 Start to Test

```
wrk -t1 -c10 -d20 -R500 -L http://test.tamtesting01.com/ >> result.txt
```

Remark:

- Thread: 1
- Connection: 10
- Duration: 20
- Request per second: 500

## 1.5 Generate the graph

This can be plotted via HdrHistogram Plotter to obtain the latency graph.

The graph for the above report looks like below:





result.txt

#### Detailed Percentile spectrum:

Value	Percentile	TotalCount	1/(1-Percentile)
0.269	0.000000	1	1.00
0.450	0.100000	500	1.11
0.853	0.200000	995	1.25
1.268	0.300000	1495	1.43
1.578	0.400000	1993	1.67
1.754	0.500000	2490	2.00
1.825	0.550000	2738	2.22
2.000	0.600000	2986	2.50
2.093	0.650000	3240	2.86
2.191	0.700000	3485	3.33
2.241	0.750000	3735	4.00
2.275	0.775000	3855	4.44
2.309	0.800000	3980	5.00
2.351	0.825000	4107	5.71
2.435	0.850000	4231	6.67
2.491	0.875000	4353	8.00
2.509	0.887500	4428	8.89
2.521	0.900000	4478	10.00
2.537	0.912500	4541	11.43
2.551	0.925000	4610	13.33
2.571	0.937500	4665	16.00
2.587	0.943750	4695	17.78
2.607	0.950000	4726	20.00
2.631	0.956250	4757	22.86
2.711	0.962500	4789	26.67
2.871	0.968750	4820	32.00
2.891	0.971875	4835	35.56

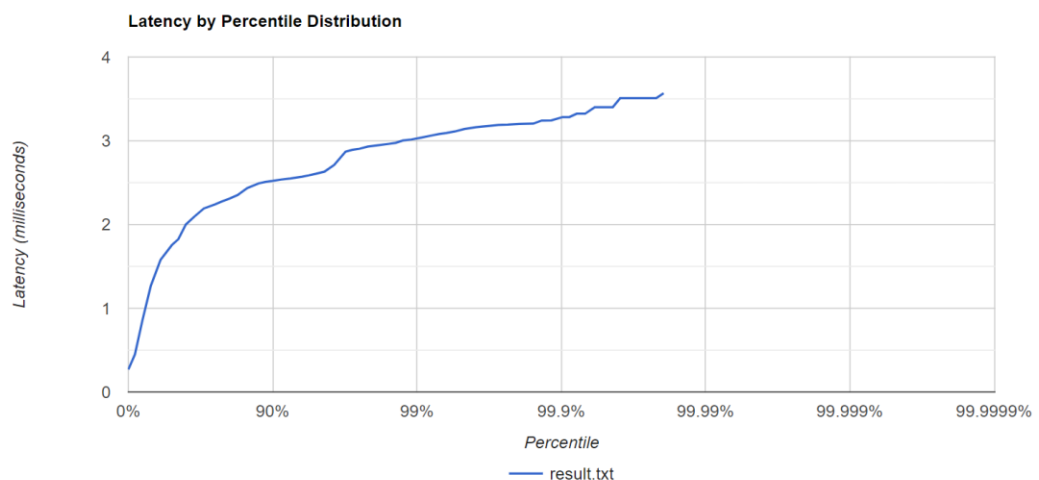
Upload the result file to the HdrHistogram Website.

← → ↺ [hdrhistogram.github.io/HdrHistogram/plotFiles.html](https://hdrhistogram.github.io/HdrHistogram/plotFiles.html)  

### HdrHistogram Plotter

result.txt

Plotting input from: result.txt



Latency time units: milliseconds

Percentile range:  99.99999%

Export the Image.

