

J meter จำลองให้มันตอบกลับ set 500 msec.

Stress testing. To find breakpoints ของแอป

Load testing : number of users that can use app

Performance : respond time

ข้อเสีย ถ้าเราต้องทำงานร่วมกับคนอื่นค่อนข้างยาก สเกลใหญ่ 1-2 ล้านคน



1. check Java -v เอา 8 ขึ้นไป

04 | demo

download & setup

1. Check java is installed on your system
 - java -version
2. Download JMeter at https://jmeter.apache.org/download_jmeter.cgi
3. Unzip and keep JMeter folder at any location
4. Start JMeter
 - Windows
 - go to jmeter/bin
 - click jmeter.bat
 - MacOS
 - open terminal
 - go to jmeter/bin
 - run 'sh jmeter.sh'

} ต่อไป

โหลดแบบ Binary



JMeter

Download Apache JMeter

We recommend you use a mirror to download our release builds, but you must verify the integrity of the downloaded files using signatures downloaded from our main distribution directories. Recent releases (48 hours) may not yet be available from all the mirrors.

You are currently using <https://mirrors.ubuntu.com/mirrors.txt> mirrors are failing, there are backlinks to our main site.

Other mirrors: <https://mirrors.ubuntu.com/mirrors.txt>

The **KEYS** link links to the code from our main site. The **BRA-5.1** downloaded file.

For more information concerning

Apache JMeter

Binaries

[apache-jmeter-5.5.zip sha512](#)
[apache-jmeter-5.5.zip sha512](#)

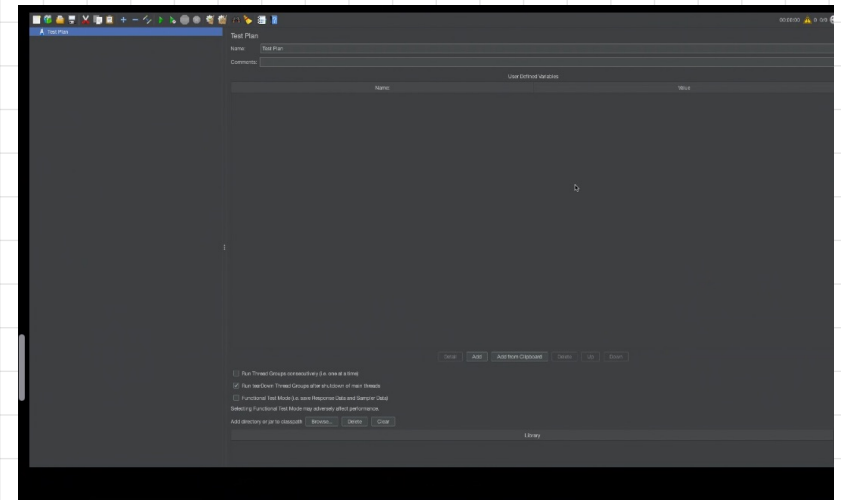
Source

[apache-jmeter-5.5_src.zip sha512](#)
[apache-jmeter-5.5_src.zip sha512](#)

Archives

Older releases can be obtained from the archives.

4 เจตได้น้ำจากแบบนี้



5 server ที่ API

04 | demo

api path

1. Get all user
 - a. GET method: user.nuttchai.app/api/v1/user
2. Get one user
 - a. GET method: user.nuttchai.app/api/v1/user/{id}
3. Create one user
 - a. POST method: user.nuttchai.app/api/v1/user
 - b. BODY: username, firstname, lastname, phone, email
4. Update one user
 - a. PUT method: user.nuttchai.app/api/v1/user
 - b. BODY: id, username, firstname, lastname, phone, email

2. ติดตั้งไว้เรียบร้อยแล้ว

3. cd ไป directory ที่ลงไว้

desktop> jmeter -> cd bin then

GoodNotes 10:14 a.m. 28.6%

Test Plan
Thread Group
HTTP Request

run 6660
save

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HTTP Request

Name: HTTP Request

Comments:

Basic: Advanced

Web Server: Protocol (http): https Server Name or IP: localhost:443 Port Number: 443

HTTP Request: GET Path: /api/v1/user Content encoding:

Parameters: Body Data: Files Upload

Send Parameters With the Request:

Name	Value	URL Encode?	Content-Type	Include Equals?
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Nutt C. ...

GoodNotes 10:24 a.m. 65%

Test Plan
Thread Group
HTTP Request
Summary Report

Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file: Filename: save

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec
HTTP Request	5	133	102	178	24.78	0.00%	36.9/min	0.71	
TOTAL	5	133	102	178	24.78	0.00%	36.9/min	0.71	

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GoodNotes 10:24 a.m. 65%

Test Plan
Thread Group
HTTP Request
View Results Tree

run 6660
save

5

run
Mao save now.

View Results Tree

Name: View Results Tree

Comments:

Write results to file / Read from file: Filename:

Search: Case sensitive Regular exp Search Reset

Test:

- HTTP Request
- HTTP Request
- HTTP Request
- HTTP Request
- HTTP Request

Sample result: Request: Response data
Thread Name: Thread Group 1-4
Sample Start: 2023-03-28 10:17:15 ICT
Local time: 102
Connect Time: 1
Send in bytes: 1174
Send in bytes: 13
Headers size in bytes: 239
Body size in bytes: 865
Sample Count: 5
Error Count: 0
Data type: text/plain
Response code: 200
Response message: OK
HTTPSampleResult: 1000
Content-Type: application/json; charset=UTF-8
Data encoding: UTF-8

no dropdown
give custom
in .json
note must customize dropdown

Raw: Parse

GoodNotes 10:24 a.m. 65%

Test Plan
Thread Group
HTTP Request
Summary Report
Aggregate Report

Aggregate Report

Name: Aggregate Report

Comments:

Write results to file / Read from file: Filename:

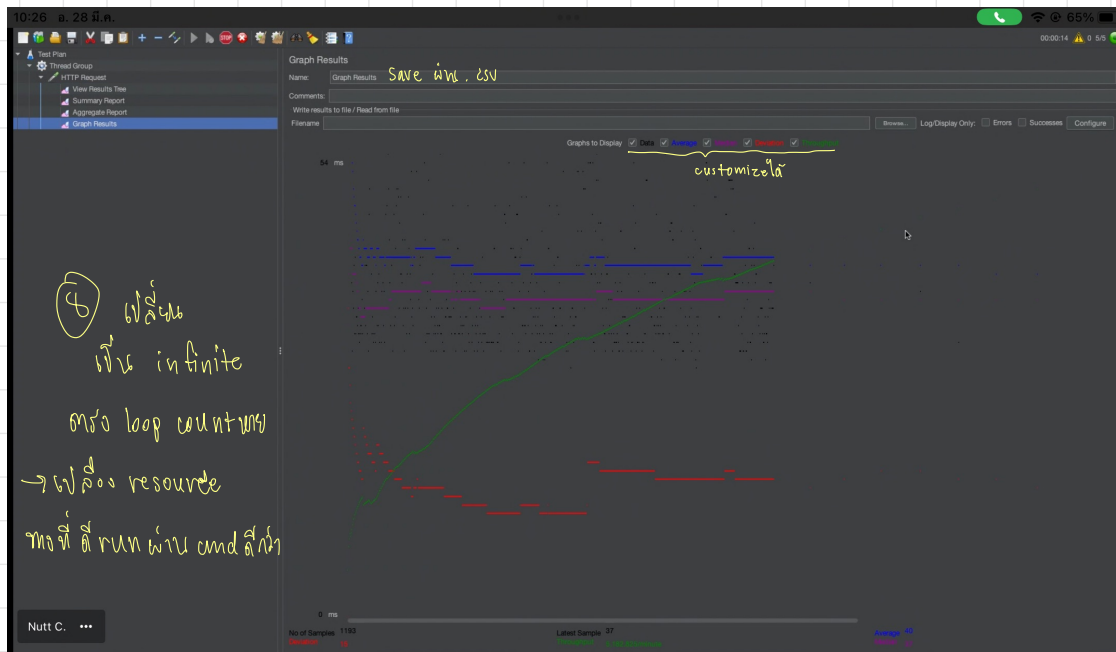
Label	# Samples	Average	Median	90% Line	95% Line	99% Line	Min	Maximum	Error %	Throughput	Received KB/sec	Sent KB/sec
TOTAL	5	0	0	0	0	0	0	992337203454...	0.00%	0.00	0.00	0.00

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ADb

Aggregate rate

Nutt C. ...



④ เปลี่ยน
เป็น infinite
มอง loop count ว่า
→ เปลี่ยน resource
ทางที่มัน run ผ่าน cmd ล่ะ

ถ้าหากรู้ว่า CPU เต็ม ทำไง
: ให้สคริปต์ส่ง meter เพื่อดูว่า CPU มีสิ่งผิดปกติ
อีก ... ชาติ จะ down

Grafana } check RAM CPU
Prometheus } ว่าทำงานปรกติไหม

test load test ที่ pre production
production วนๆ วนๆ test