

Usé el programa JMeter para las pruebas.

Fuí variando los campos *Number of Threads* y *Ramp-up Period (in seconds)*. Para explicar de qué se tratan esos campos, dejo un ejemplo:

Supongamos que configuras los siguientes valores en un Thread Group:

- Number of Threads: 50
- Ramp-up Period: 100 segundos

En este caso, JMeter iniciará 50 usuarios virtuales distribuidos uniformemente en 100 segundos. Cada usuario virtual comenzará 2 segundos después del anterior ($100 / 50 = 2$).

En el archivo crear.jmx, fui incrementando la cantidad de usuarios en el campo *Number of Threads* desde 10, pero manteniendo el campo *Ramp-up Period (in seconds)* en 1. Y lo fui aumentando hasta 60/1, donde recién comenzó a romper en la creación de propiedades, por un error 500.

The image shows two screenshots from the Apache JMeter GUI. The top screenshot is the 'Summary Report' for a test named 'Summary Report'. It displays a table with performance metrics. The bottom screenshot is the 'View Results Tree' for the same test, showing a list of samples. One sample, 'Crear una propiedad', is highlighted in red, indicating an error. The 'Response Body' for this sample shows an HTML error page with the title '500 Internal Server Error' and the message 'The server encountered an internal error and was unable to complete your request. Either the server is overloaded or there is an error in the application.'

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Crear una propiedad	60	4	3	31	3.61	1.67%	59.6/sec	12.63	30.26	217.1
TOTAL	60	4	3	31	3.61	1.67%	59.6/sec	12.63	30.26	217.1

Por lo que voy a comenzar a variar Ramp-up Period (in seconds) y Loop Count (la cantidad de veces que se ejecutó secuencialmente), lo voy a ir incrementando para ir aumentando el tiempo en que se van agregando los nuevos hilos.

Lo mejor que logré, sin errores aumentando todo al máximo, fué:

- Number of threads (users): 60
- Ramp-up period (seconds): 4
- Loop Count: 2

The image shows the 'Thread Group' configuration window in JMeter. The 'Name' is 'Thread Group'. The 'Number of Threads (users)' is set to 60. The 'Ramp-up period (seconds)' is set to 4. The 'Loop Count' is set to 2. The 'Same user on each iteration' checkbox is checked. The 'Delay Thread creation until needed' checkbox is unchecked. The 'Specify Thread lifetime' checkbox is unchecked. The 'Duration (seconds)' and 'Startup delay (seconds)' fields are empty.

Los informes de esas pruebas, en cada endpoint:

Visit tracker - CREAR

Thread Group

Crear un empleado

View Results Tree

Summary Report

HTTP Header Manager

Crear una propiedad

View Results Tree

Summary Report

HTTP Header Manager

Crear una visita

View Results Tree

Summary Report

HTTP Header Manager

Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file

Filename

Browse...

Log/Display Only:

Errors

Successes

Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Crear un empleado	120	3	1	7	1.32	0.00%	30.2/sec	6.29	8.18	213.0
TOTAL	120	3	1	7	1.32	0.00%	30.2/sec	6.29	8.18	213.0

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Thread Group

Crear un empleado

View Results Tree

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Crear una propiedad

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Summary Report

HTTP Header Manager

Crear una visita

View Results Tree

Summary Report

HTTP Header Manager

Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file

Filename

Browse...

Log/Display Only:

Errors

Successes

Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Crear una propiedad	120	3	3	6	0.71	0.00%	30.2/sec	6.29	15.35	213.0
TOTAL	120	3	3	6	0.71	0.00%	30.2/sec	6.29	15.35	213.0

Visit tracker - CREAR

Thread Group

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Summary Report

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View Results Tree

Summary Report

HTTP Header Manager

Crear una visita

View Results Tree

Summary Report

HTTP Header Manager

Summary Report

Name: Summary Report

Comments:

Write results to file / Read from file

Filename

Browse...

Log/Display Only:

Errors

Successes

Configure

Label	# Samples	Average	Min	Max	Std. Dev.	Error %	Throughput	Received KB/sec	Sent KB/sec	Avg. Bytes
Crear una visita	120	2	1	3	0.43	0.00%	30.2/sec	6.62	8.18	224.0
TOTAL	120	2	1	3	0.43	0.00%	30.2/sec	6.62	8.18	224.0