

# **JMETER REPORT**

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# 1.Un actor NO AUTENTICADO puede

## 1.1 Registrarse como estudiante

**Descripción del ordenador que ha realizado el caso de uso:**

Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 180 clientes.

### Thread Group

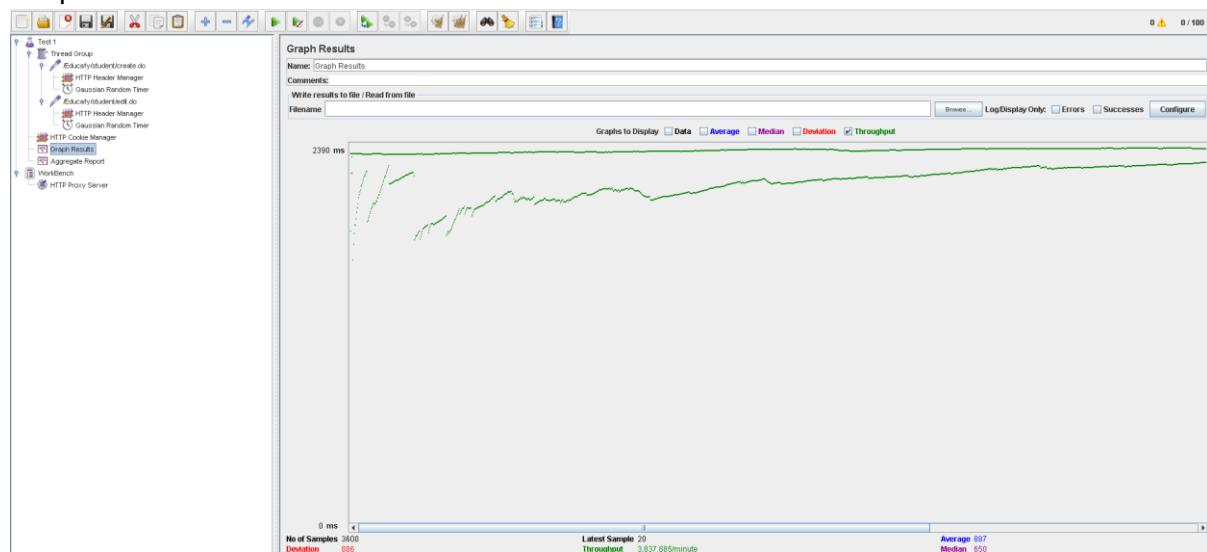
The screenshot shows the JMeter Thread Group configuration. The 'Number of Threads (users)' is set to 180, 'Ramp-Up Period (in seconds)' is 1, and 'Loop Count' is 1. Other settings like 'HTTP Cookie Manager' and 'Gaussian Random Timer' are also visible.

### Report

The screenshot shows the JMeter Aggregate Report. It displays summary statistics for 180 threads, including Average response time (925 ms), Median (869 ms), and Throughput (32.9/sec). The report also includes a table of results for each thread group and a total row.

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
Educitystudentcreate.do	1800	925	869	2155	9	8139	0.00%	32.9/sec	229.1
Educitystudentedit.do	1800	846	828	1937	13	4962	0.00%	21.4/sec	224.1
<b>TOTAL</b>	<b>3600</b>	<b>887</b>	<b>850</b>	<b>2078</b>	<b>9</b>	<b>8138</b>	<b>0.00%</b>	<b>64.0/sec</b>	<b>450.1</b>

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 190 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

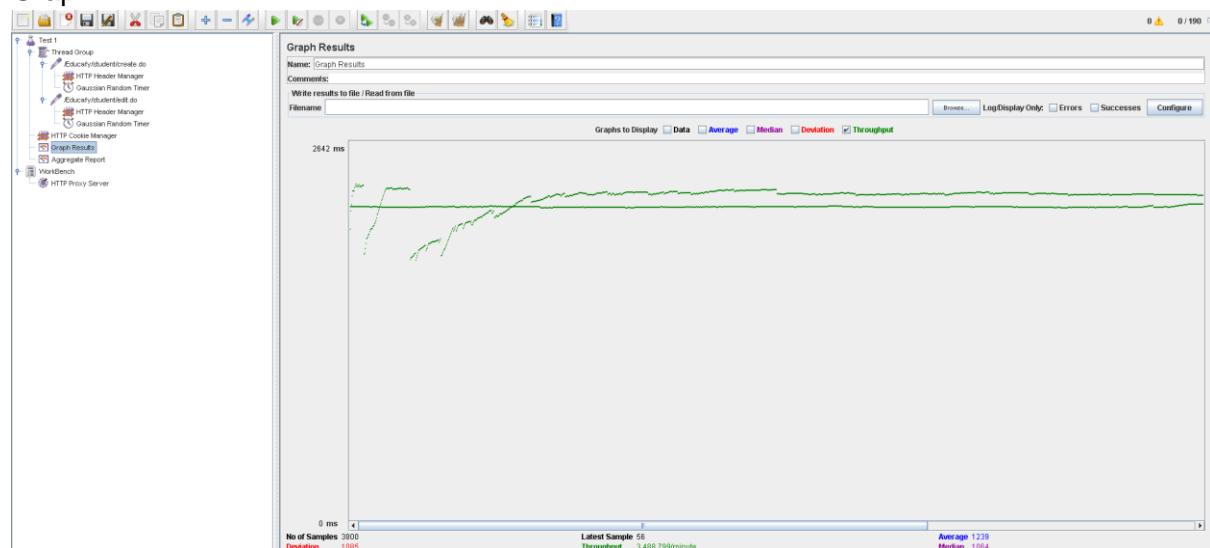
### Thread Group

Thread Group  
Name: Thread Group  
Comments:  
Action to take after a Sampler error: Continue  
Number of Threads (users): 190  
Ramp-Up Period (in seconds): 1  
Loop Count: 10  
Delay Thread creation until needed  
Scheduler

### Report

Label	# Samples	Average	Median	99% Line	Min	Max	Error %	Throughput	kB/sec
Educaystudentcreate.do	1900	1.272	1.114	2.664	8	8.756	0.00%	29.8/sec	208.1
Educaystudentread.do	1900	1.205	1.029	2.514	13	7.286	0.00%	29.8/sec	212.4
TOTAL	3800	1.239	1.084	2.592	8	8.756	0.00%	58.1/sec	409.5

### Graph



## 1.2 Registrarse como profesor

**Descripción del ordenador que ha realizado el caso de uso:**

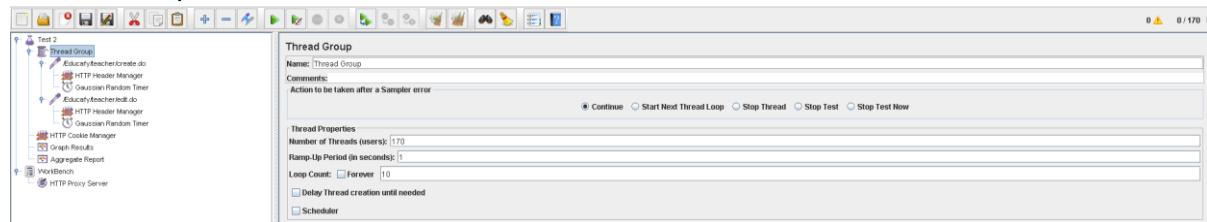
Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

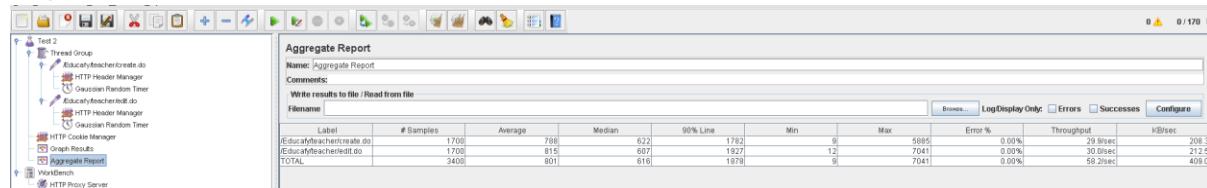
**Caso Positivo:** El sistema, en este caso, es capaz de soportar 170 clientes.

### Thread Group



The screenshot shows the JMeter Test Plan editor. A 'Thread Group' is selected in the left tree view. The main panel displays the 'Thread Group' configuration: Name is 'Thread Group', Number of Threads (users) is 170, Ramp-Up Period (in seconds) is 1, Loop Count is set to 'Forever' (selected), and 'Delay Thread creation until needed' is checked. There are also 'Continue', 'Start Next Thread Loop', 'Stop Thread', 'Stop Test', and 'Stop Test Now' options at the top right.

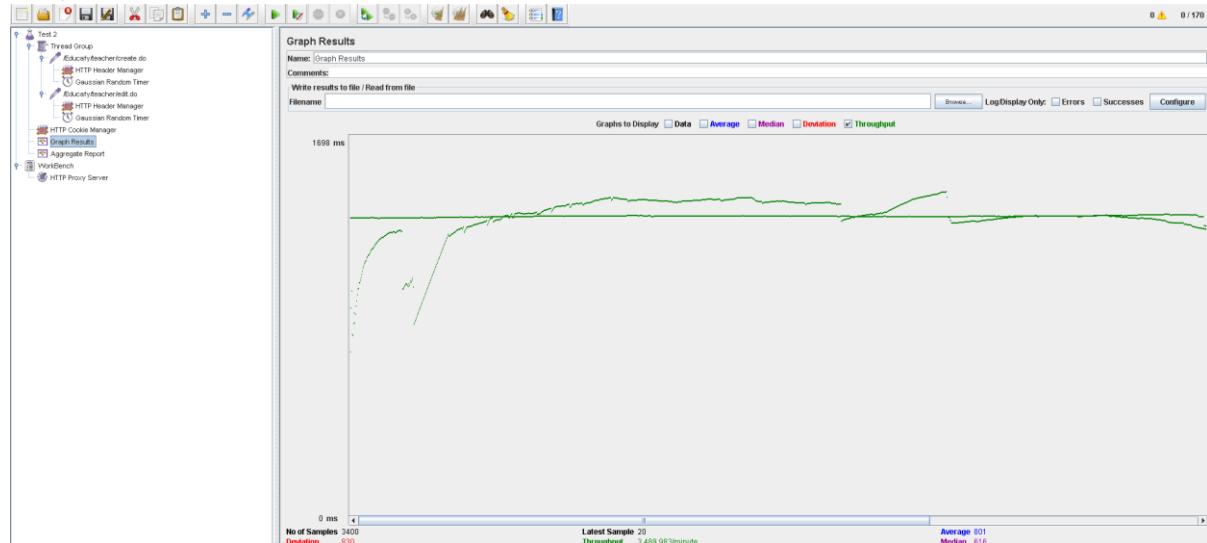
### Report



The screenshot shows the 'Aggregate Report' configuration in the JMeter Test Plan editor. The 'Aggregate Report' is selected in the left tree view. The main panel shows the 'Aggregate Report' settings: Name is 'Aggregate Report', and 'Write results to file / Read from file' is selected. Below this is a table of results:

Label	# Samples	Average	Median	95% Line	Min	Max	Error %	Throughput	kB/sec
Educaytfeachercreate.do	1700	786	622	1762	0	5985	0.00%	29.8sec	20.3
Educaytfeacheredit.do	1700	615	607	1927	0	7041	0.00%	30.8sec	21.2
TOTAL	3400	691	616	1879	0	7841	0.00%	59.2sec	40.0

### Graph



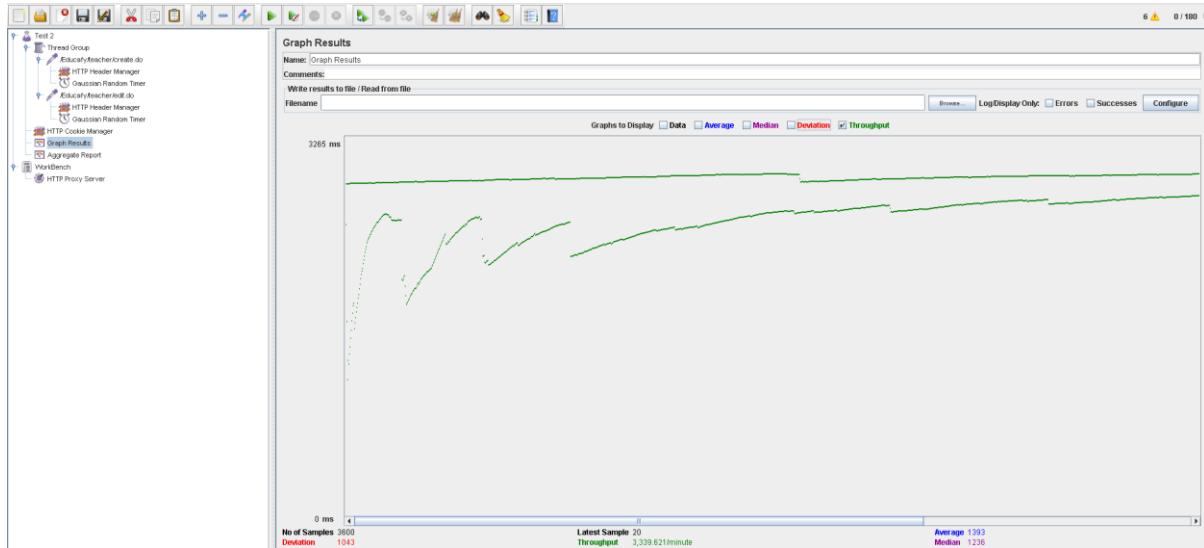
**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 180 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

### Report

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
Educateyteachercreate.do	1800	1375	1233	2705	9	7293	0.00%	29.5/sec	199.1
Educateyteacheredit.do	1800	1410	1238	2794	13	8342	0.00%	29.6/sec	202.5
<b>TOTAL</b>	<b>3600</b>	<b>1393</b>	<b>1236</b>	<b>2747</b>	<b>9</b>	<b>8342</b>	<b>0.00%</b>	<b>55.7/sec</b>	<b>391.4</b>

### Graph



## 1.3 Listar todas las clases

**Descripción del ordenador que ha realizado el caso de uso:**

Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 260 clientes.

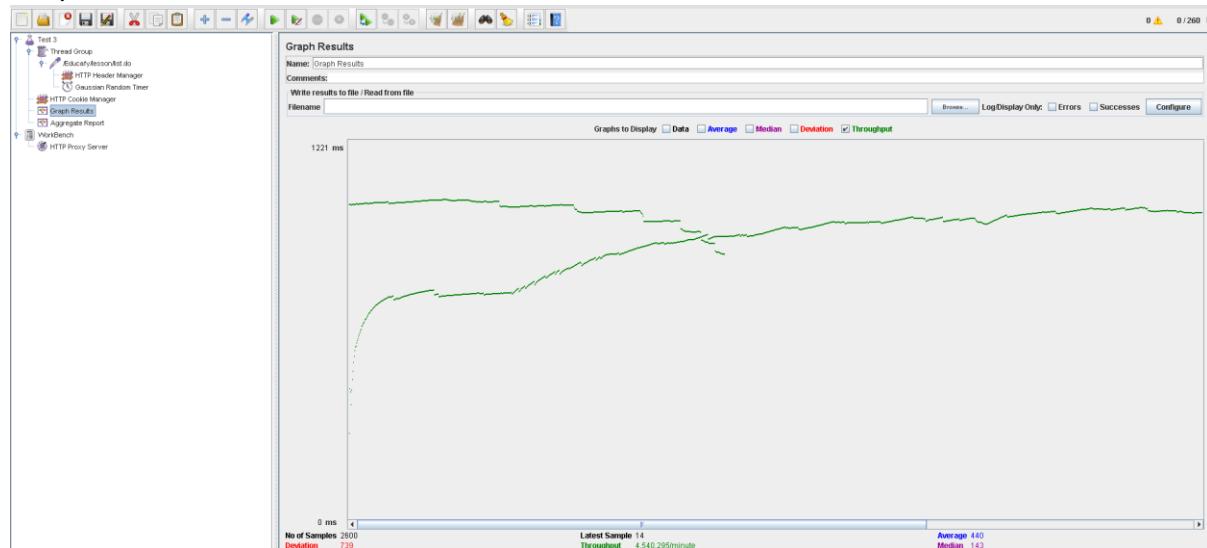
### Thread Group

The screenshot shows the JMeter test plan interface. On the left, there is a tree view of the test plan with nodes like 'Test 3', 'Thread Group', 'HTTP Request', 'HTTP Header Manager', 'Guaridan Random Timer', 'HTTP Cookie Manager', 'Graph Results', 'Aggregate Report', 'NtBench', and 'HTTP Proxy Server'. The 'Thread Group' node is expanded. On the right, there is a detailed configuration panel for the 'Aggregate Report' listener. It includes fields for 'Name: Aggregate Report', 'Comments:', 'Write results to file / Read from file', and a table with columns: Label, # Samples, Average, Median, 95% Line, Min, Max, Error %, Throughput, and kB/sec. The table contains two rows: 'Educafylessonlist.do' with 2600 samples and average 440, and 'TOTAL' with 2600 samples and average 440. Buttons at the bottom include 'Browse...', 'LogDisplay Only', 'Errors', 'Successes', and 'Configure'.

### Report

This screenshot shows the same JMeter test plan as above, but the configuration panel on the right is for the 'Thread Group' listener. It includes fields for 'Name: Thread Group', 'Comments:', 'Action to be taken after a Sampler error' (with 'Continue' selected), 'Thread Properties' (Number of Threads: 260, Ramp-Up Period: 1, Loop Count: Forever 10, Delay Thread creation until needed, Scheduler), and a 'Configure' button.

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 270 clientes, ya que hay % de error en una request cuando hace su acción indicada.

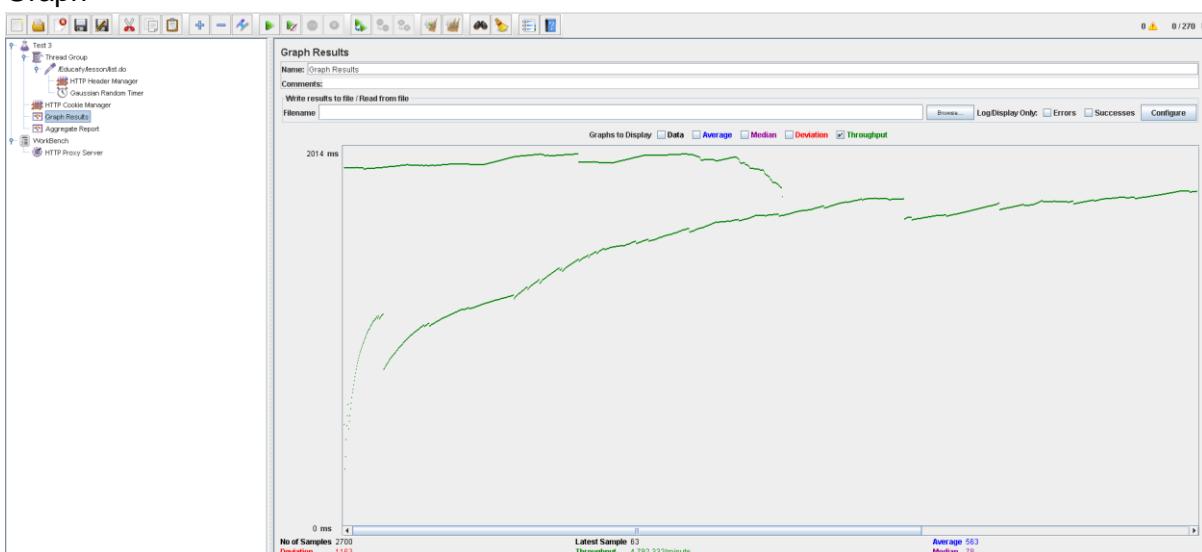
### Thread Group

Thread Group  
Name: Thread Group  
Comments:  
Action to be taken after a Sampler error  
Number of Threads (users): 270  
Ramp-Up Period (in seconds): 1  
Loop Count: Forever 10  
Delay Thread creation until needed  
Scheduler

### Report

Aggregate Report  
Name: Aggregate Report  
Comments:  
Write results to file / Read from file  
Filename:   
Label # Samples Average Median 90% Line Min Max Error % Throughput kB/sec  
EducuteLessonList.do 2700 563 78 1908 1 5582 1.78% 79.9/sec 423.9  
TOTAL 2700 563 78 1908 1 5582 1.78% 79.9/sec 423.9

### Graph



## 2.Cualquier actor AUTENTICADO puede

### 2.1 Ver y editar su perfil

**Descripción del ordenador que ha realizado el caso de uso:**

Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 150 clientes.

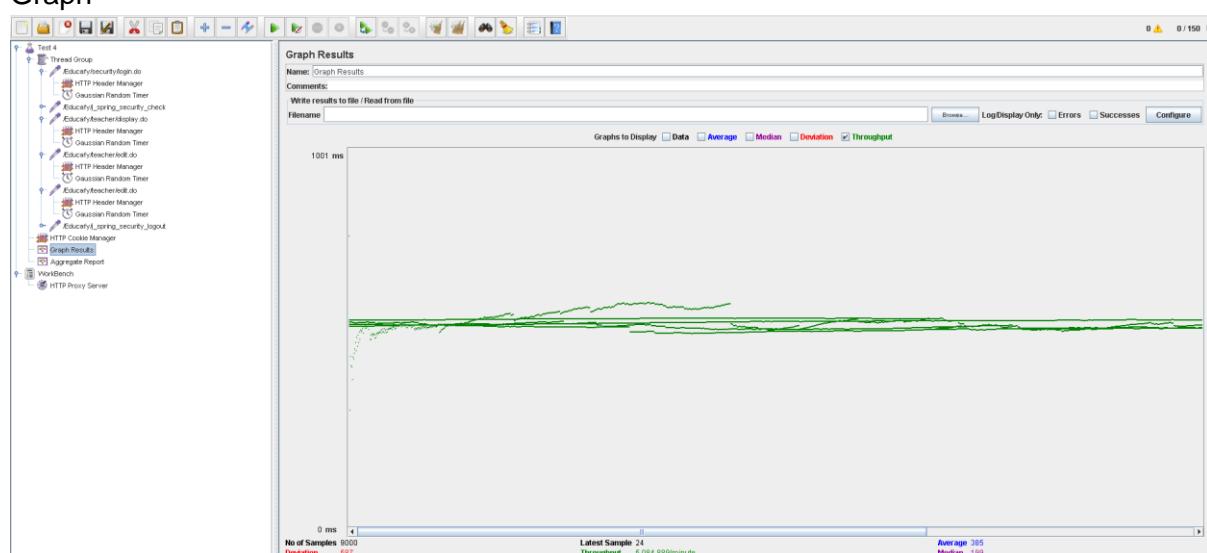
#### Thread Group

The screenshot shows the JMeter Thread Group configuration. The 'Number of Threads (users)' is set to 150, 'Ramp Up Period (in seconds)' is 1, and 'Loop Count' is set to Forever (10 loops). Other settings include 'Delay Thread creation until needed' and 'Scheduler'. The left sidebar lists various samplers and listeners used in the test plan.

#### Report

The screenshot shows the JMeter Aggregate Report. It displays performance metrics for 150 users. Key values include Average Response Time (664 ms), Median (163 ms), 90% Line (802 ms), Min (5 ms), Max (4335 ms), Error % (0.00%), Throughput (14.8/sec), and Throughput in kB/sec (68.9 kB/sec). The report also includes a table of results and a graph.

#### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 160 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

Thread Group

Name: Thread Group

Comments:

Action to take after a Sampler error:

- Continue
- Start Next Thread Loop
- Stop Thread
- Stop Test
- Stop Test Now

Thread Properties

Number of Threads (users): 160

Ramp-Up Period (in seconds): 1

Loop Count:  Forever 10

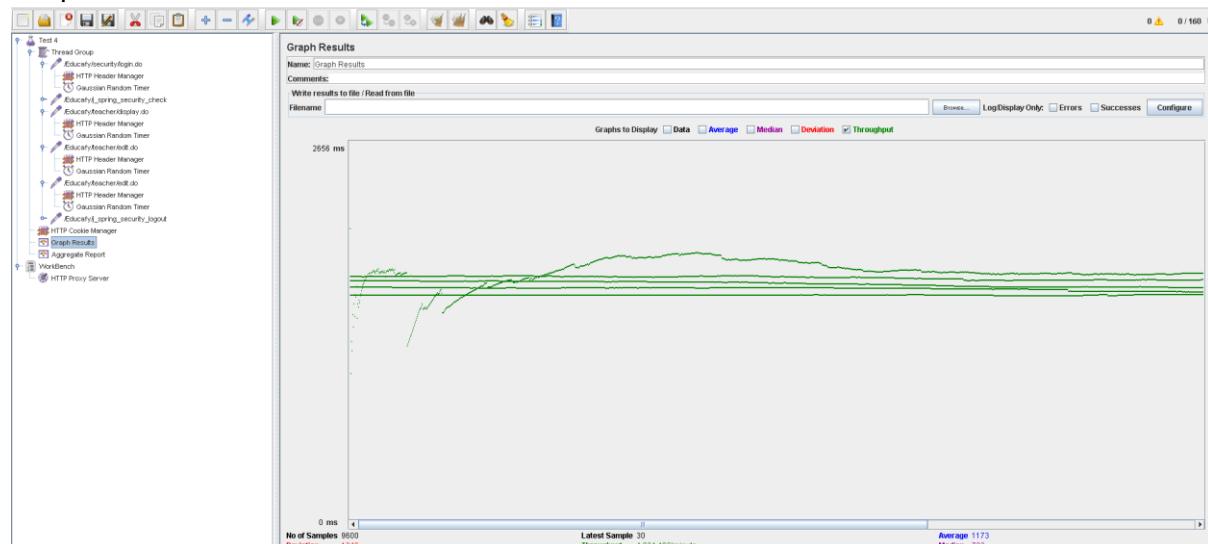
Delay Thread creation until needed

Scheduler

### Report

Label	# Samples	Average	Median	95% Line	Min	Max	Error %	Throughput	kB/sec
Educatysecuritylogin.do	1600	986	681	2223	6	11525	0.00%	11.8/sec	52.2
Educatysecurity.logout	1600	2226	1950	4065	15	20119	0.00%	11.8/sec	57.7
Educatysecuritycheckplay	1600	926	582	2050	7	8784	0.00%	11.8/sec	140.6
Educatysecuritycheckred	3200	994	651	2231	7	11374	0.00%	22.6/sec	218.8
Educatysecurity.logout	1600	997	481	2711	8	19490	0.00%	11.8/sec	51.1
TOTAL	9600	1173	723	2715	6	20119	0.00%	87.1/sec	505.9

### Graph



## 2.2 Eliminar su perfil

### Descripción del ordenador que ha realizado el caso de uso:

Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 140 clientes.

### Thread Group

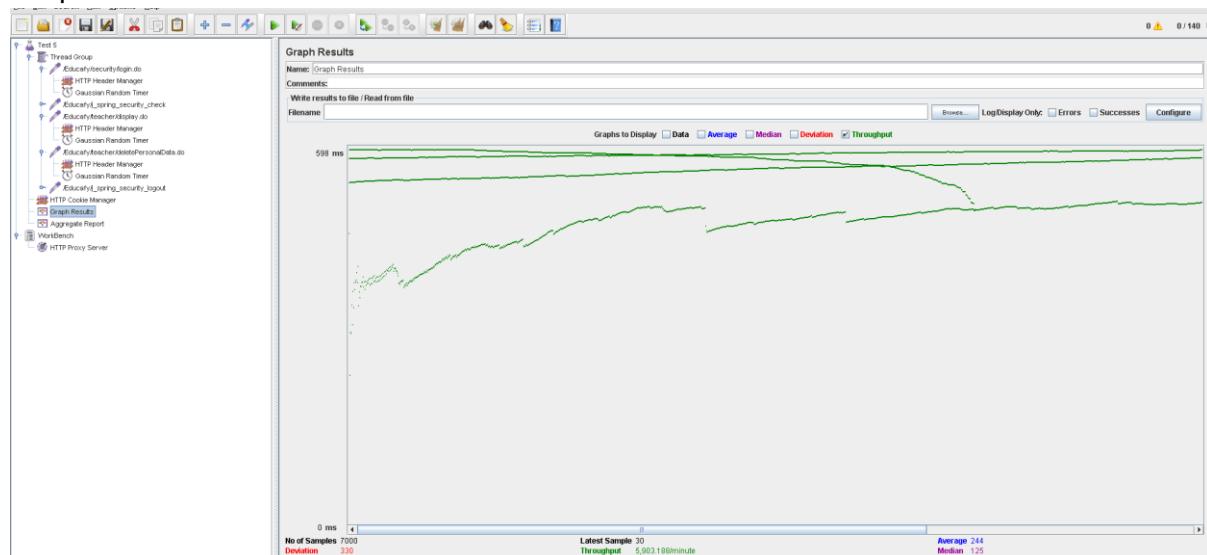
The screenshot shows the JMeter Thread Group configuration. The 'Number of Threads (users):' is set to 140, 'Ramp-Up Period (in seconds)': 1, and 'Loop Count': Forever (1). Other settings like 'Delay Thread creation until needed' and 'Scheduler' are unchecked.

### Report

The screenshot shows the JMeter Aggregate Report. It displays various performance metrics for 140 threads. Key values include Average response times (e.g., 213 ms), Median response times (e.g., 115 ms), and Throughput (e.g., 20.9/sec).

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
(EducMfcSecurityLogin.do)	1400	213	115	447	5	4039	0.00%	20.9/sec	94.4
(EducMfc_spring_secur.)	1400	499	477	1024	13	3165	0.00%	20.9/sec	103.4
(EducMfcSecurityLogout)	1400	157	157	307	0	2207	0.00%	20.9/sec	245.7
(EducMfcSecurityPersonalData.do)	1400	175	98	437	0	1900	0.00%	20.8/sec	94.6
(EducMfcSecurityPersonalDataP)	1400	176	112	437	0	1904	0.00%	20.5/sec	98.9
(EducMfc_spring_secur.)	1400	244	125	643	5	4039	0.00%	20.4/sec	603.0
<b>TOTAL</b>	<b>7000</b>								

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 150 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

Test Plan

Thread Group

Name: Thread Group  
Comments:  
Action to be taken after a Sampler error: Continue

Thread Properties

Number of Threads (users): 150  
Ramp-Up Period (in seconds): 1  
Loop Count: Forever 10  
Delay Thread creation until needed  
Scheduler

### Report

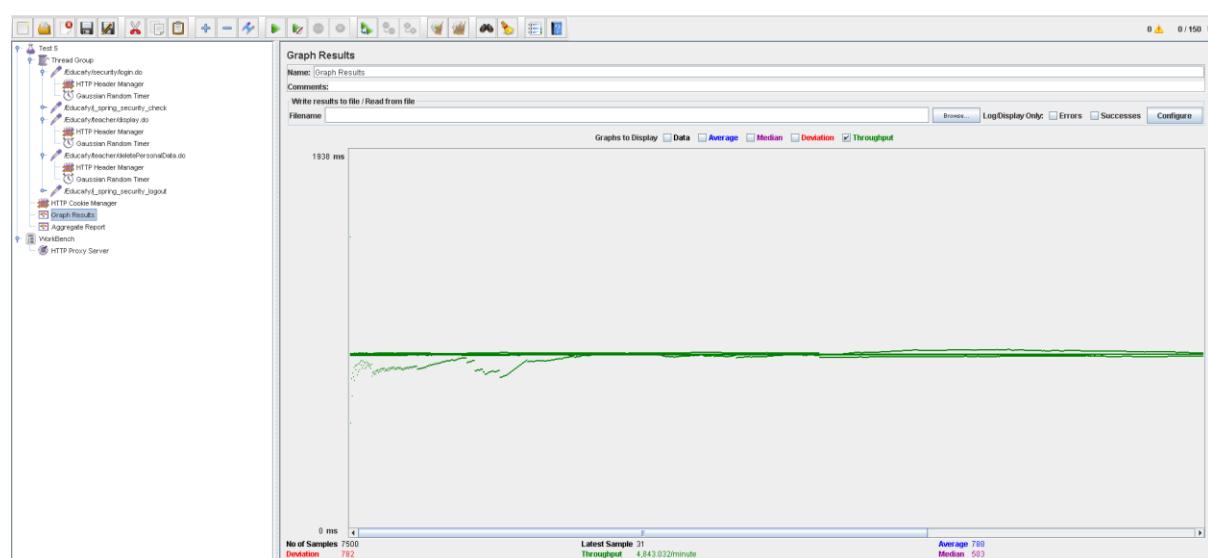
Test Plan

Aggregate Report

Name: Aggregate Report  
Comments:  
Write results to file / Read from file  
Filename:

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
[EducateMeSecurityLogin.do]	1500	579	441	1235	6	5263	0.00%	16.7/sec	75.6
[EducateMe_spring_securi...]	1500	1700	1519	2956	13	6455	0.00%	16.7/sec	82.7
[EducateMeTeacherDisplay.do]	1500	515	486	1392	7	4557	0.00%	16.7/sec	207.9
[EducateMeTeacherList.do]	1500	600	420	1139	6	8794	0.00%	16.7/sec	76.0
[EducateMeTeacherLogout]	1500	447	340	909	6	3383	0.00%	16.7/sec	73.8
TOTAL	7500	789	503	1834	6	8794	0.00%	60.7/sec	494.7

### Graph



## 2.3 Listar y ver un perfil social

**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 50 clientes.

### Thread Group

The screenshot shows the JMeter Test Plan editor. A 'Thread Group' is selected in the left tree view. The right panel displays the 'Thread Group' configuration with the following settings:

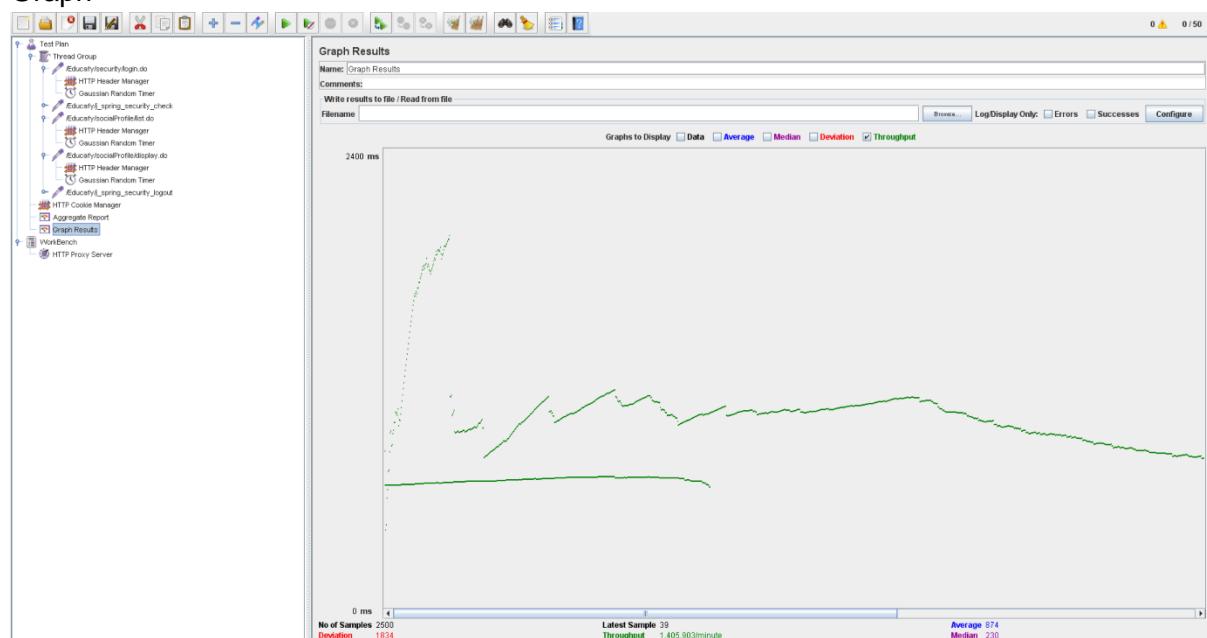
- Name: Thread Group
- Number of Threads (users): 50
- Ramp-Up Period (in seconds): 1
- Loop Count: Forever
- Delay Thread creation until needed
- Scheduler

### Report

The screenshot shows the JMeter Aggregate Report. The left tree view shows a 'Thread Group'. The right panel displays the 'Aggregate Report' table with the following data:

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
EdudafySecurity/login.do	500	1169	954	1256	6	16223	0.00%	4.9/sec	21.7
Edudafy_spring_see...	500	990	281	2208	9	14481	0.00%	4.9/sec	24.8
EdudafySocialProfile...	500	788	238	1069	6	15933	0.00%	4.9/sec	27.0
EdudafySocialProfile...	500	747	130	1810	7	23815	0.01%	4.9/sec	25.4
Edudafy_spring_see...	500	676	197	1800	5	15772	0.00%	4.9/sec	21.3
TOTAL	2500	874	230	1949	5	23815	0.00%	23.4/sec	115.6

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 60 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

**Thread Group**

Name: Thread Group  
Comments:  
Action to be taken after a Sampler error: Continue

Thread Properties

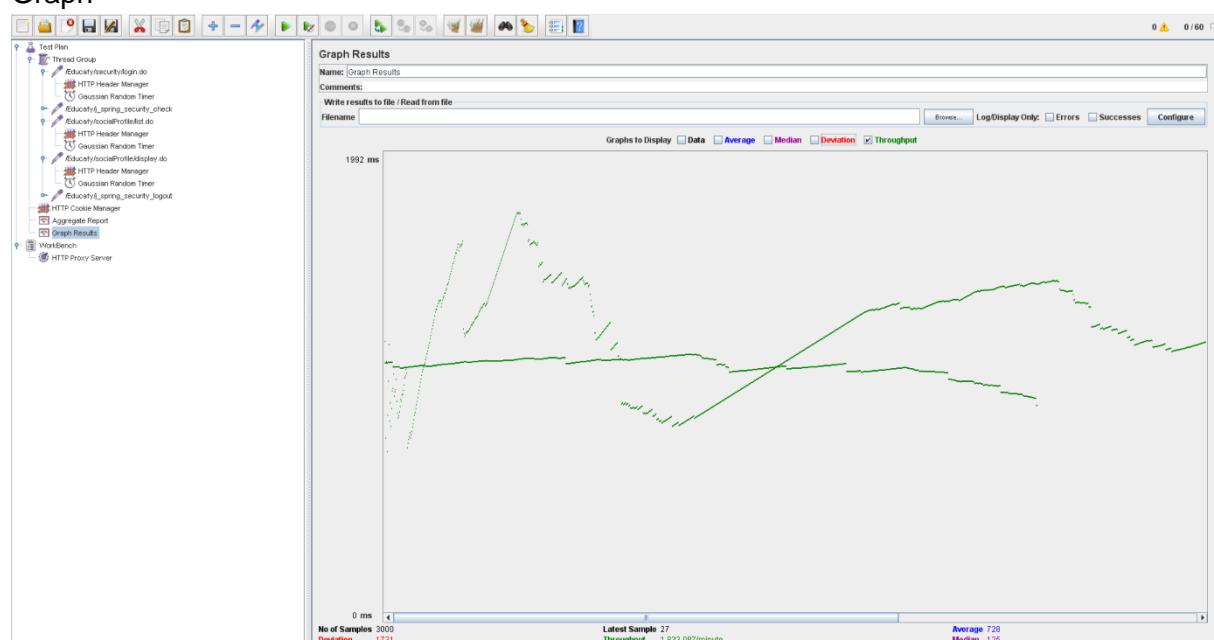
- Number of Threads (users): 60
- Ramp-Up Period (in seconds): 1
- Loop Count:Forever 10
- Delay Thread creation until needed
- Scheduler

### Report

**Aggregate Report**

Latency	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
EducafySecurityLogin.do	600	1294	205	3976	6	15915	0.00%	6.59sec	28.9
Educafy_spring_set	600	575	209	1398	9	11573	0.00%	6.59sec	33.0
EducafySocialProfile	600	643	67	1694	6	13301	0.00%	6.59sec	36.0
EducafySocialProfile	600	694	81	1627	5	15403	0.00%	6.39sec	32.9
Educafy_spring_logout	600	423	87	846	7	10322	0.00%	6.39sec	27.8
TOTAL	3000	728	125	1895	5	15615	0.00%	20.59sec	150.7

### Graph



## 2.4 Crear, editar y eliminar un perfil social

**Descripción del ordenador que ha realizado el caso de uso:**

Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 30 clientes.

### Thread Group

The screenshot shows the JMeter interface with the 'Test Plan' tree on the left. Under 'Test Plan', there is a 'Thread Group' node. The 'Thread Properties' section is expanded, showing the following settings:

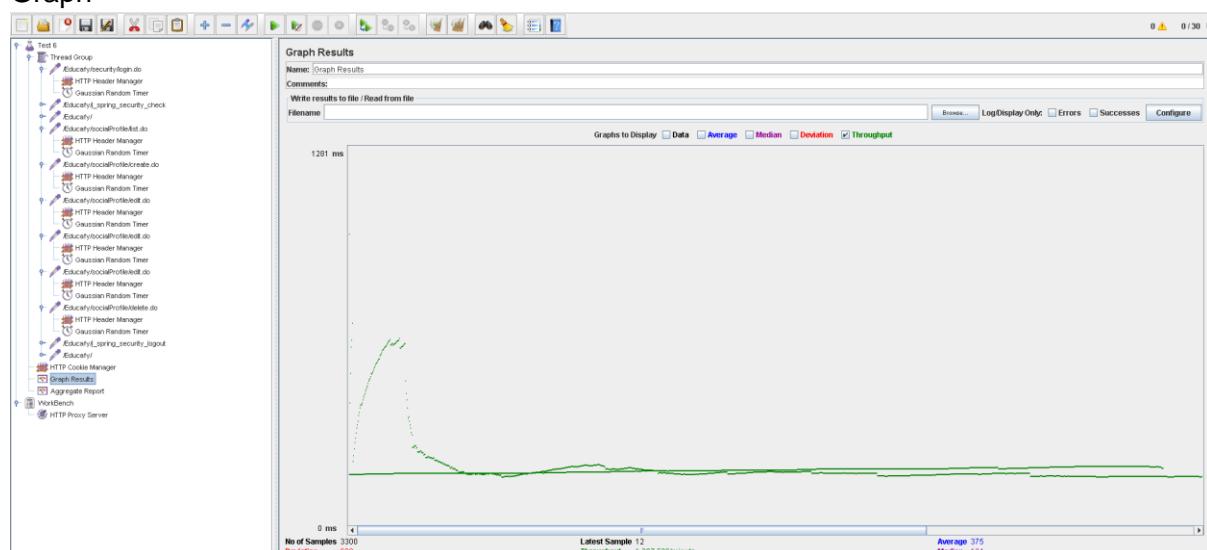
- Name: Thread Group
- Number of Threads (users): 30
- Ramp Up Period (in seconds): 1
- Loop Count: Forever (10)
- Delay Thread creation until needed
- Scheduler

### Report

The screenshot shows the 'Aggregate Report' tab in JMeter. The 'Aggregate Report' section displays the following summary statistics for 3300 samples:

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
EdudemySecurityLogin.do	300	305	64	1096	5	3122	0.00%	2.1/sec	1.9
Edudemy_Spring_Securi...	300	469	112	1604	9	5486	0.00%	2.1/sec	1.9
Edudemy_Spring_Securi...	600	44	4	27	6	21	0.00%	3.5/sec	18.0
EdudemySocialProfileAdd...	300	677	330	1876	110	6005	0.00%	2.1/sec	14.9
EdudemySocialProfileAdd...	300	281	123	884	11	2647	0.00%	2.1/sec	12.2
EdudemySocialProfileAdd...	600	580	277	1571	8	9377	0.00%	5.9/sec	6.9
EdudemySocialProfileAdd...	300	315	108	895	11	2650	0.00%	2.1/sec	27.4
Edudemy_Spring_Securi...	300	251	98	766	9	2782	0.00%	2.1/sec	9.4
<b>TOTAL</b>	<b>3300</b>	<b>375</b>	<b>134</b>	<b>1159</b>	<b>5</b>	<b>9327</b>	<b>0.00%</b>	<b>21.6/sec</b>	<b>155.7</b>

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 40 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

Test Plan

Thread Group

Name: Thread Group

Comments: Action to be taken after a Sampler error

Thread Properties

Number of Threads (users): 40

Ramp-Up Period (in seconds): 1

Loop Count:  Forever 10

Delay Thread creation until needed

Scheduler

### Report

Test Plan

Aggregate Report

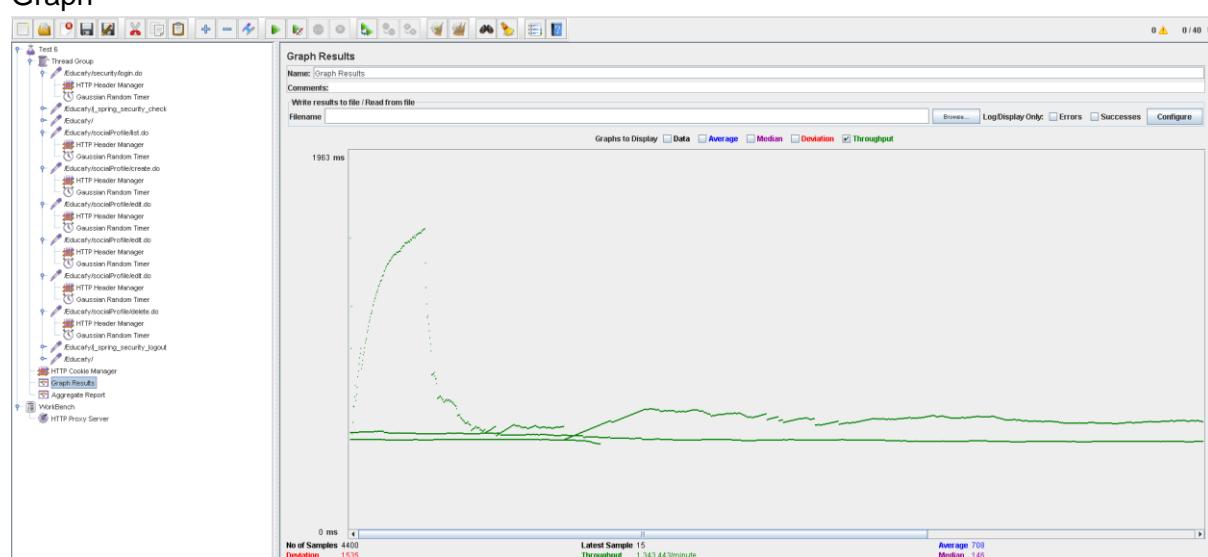
Name: Aggregate Report

Comments:

Write results to file / Read from file

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
Educayl_security_login.do	400	736	139	2325	5	9296	0.00%	2.1/sec	8.7
Educayl_spring_securing_check	400	697	152	2307	0	6240	0.00%	2.1/sec	11.1
Educayl	800	67	8	70	0	6715	0.00%	4.1/sec	18.7
Educayl_socialProfileCreate.do	400	1080	386	3113	99	8745	0.00%	2.1/sec	15.4
Educayl_socialProfileDelete.do	400	637	136	2272	17	7446	0.00%	2.1/sec	15.7
Educayl_socialProfileEdit.do	1200	1076	303	2713	0	29160	0.00%	8.3/sec	63.0
Educayl_socialProfileRead.do	400	693	141	2212	11	10114	0.00%	2.1/sec	27.7
Educayl_spring_securing_logout	400	661	131	1916	10	8489	0.00%	2.1/sec	9.5
TOTAL	4400	708	148	2193	5	29160	0.00%	22.4/sec	161.2

### Graph



## 2.5 Listar sus carpetas y crear una carpeta

### Descripción del ordenador que ha realizado el caso de uso:

Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 30 clientes.

### Thread Group

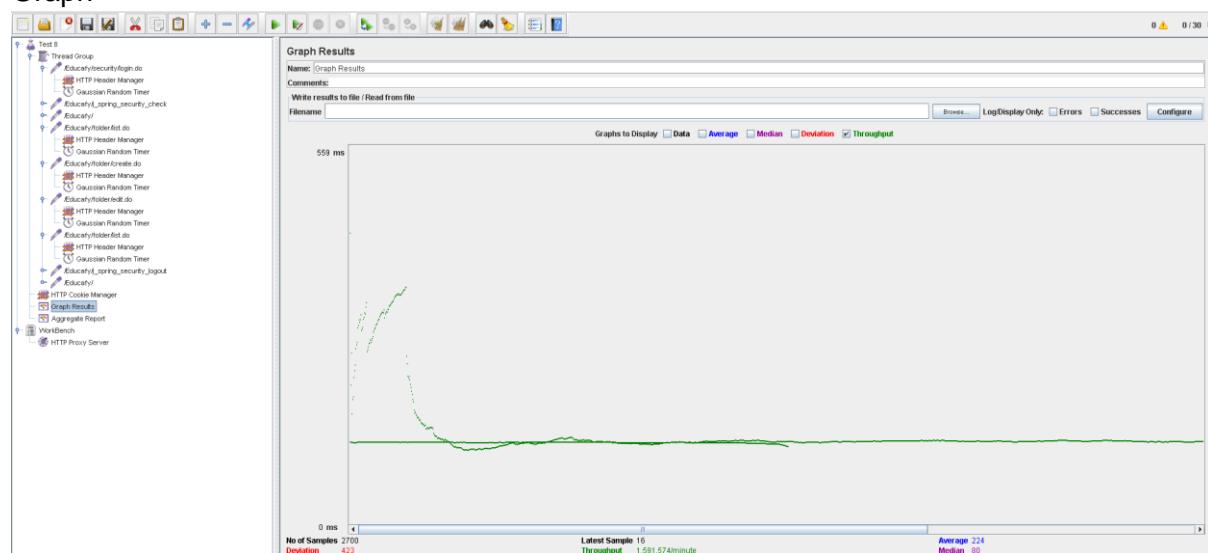
The screenshot shows the JMeter interface with the 'Thread Group' configuration open. The left pane displays a hierarchical tree of test elements under 'Test Plan'. The 'Thread Group' node is expanded, showing its sub-elements: 'Educacyf\_securityLogin.do', 'HTTP Header Manager', 'Gaussian Random Timer', 'Educacyf\_spring\_security\_check', 'Educacyf!', 'Educacyf\_headerGet.do', 'HTTP Header Manager', 'Gaussian Random Timer', 'Educacyf\_headerCreate.do', 'HTTP Header Manager', 'Gaussian Random Timer', 'Educacyf\_headerEdit.do', 'HTTP Header Manager', 'Gaussian Random Timer', 'Educacyf\_spring\_security\_logout', 'Educacyf!', 'HTTP Cookie Manager', 'GaussRandom', and 'Aggregate Report'. The right pane contains the 'Thread Properties' section with the following settings: 'Number of Threads (users)': 30, 'Ramp-Up Period (in seconds)': 1, 'Loop Count': Forever (selected), and 'Scheduler' (unchecked). Below this are checkboxes for 'Delay Thread creation until needed' and 'Scheduler'.

### Report

The screenshot shows the 'Aggregate Report' section of the JMeter interface. The left pane shows the same test plan structure as the Thread Group view. The right pane displays a table of aggregate results for each request. The table includes columns for Label, # Samples, Average, Median, 90% Line, Min, Max, Error %, Throughput, and kB/sec. The summary table at the bottom shows totals for all requests.

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
Educacyf_securityLogin.do	300	157	31	486	5	2055	0.00%	3.2/sec	14.3
Educacyf_spring_Securi...	300	218	53	609	10	2780	0.00%	3.2/sec	16.5
Educacyf_headerGet.do	600	62	9	97	4	2253	0.00%	5.9/sec	27.0
Educacyf_headerCreate.do	600	286	123	657	7	831	0.00%	5.9/sec	53.3
Educacyf_headerEdit.do	300	119	33	247	7	2311	0.00%	3.1/sec	17.0
Educacyfheaderedit.do	300	610	347	1668	79	3010	0.00%	3.1/sec	29.4
Educacyf_spring_securi...	300	218	63	637	8	2194	0.00%	3.1/sec	13.9
<b>TOTAL</b>	<b>2700</b>	<b>224</b>	<b>60</b>	<b>627</b>	<b>6</b>	<b>6213</b>	<b>0.00%</b>	<b>29.5/sec</b>	<b>163.9</b>

### Graph



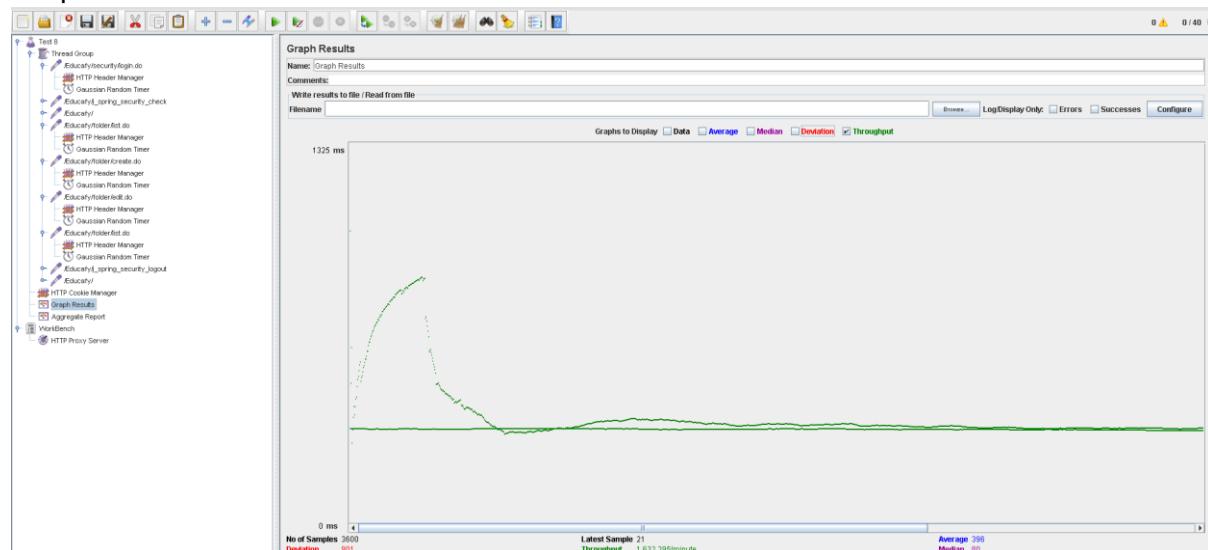
**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 40 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

### Report

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
(EducateMe)login.do	400	276	26	866	6	4700	0.00%	3.29sec	14.4
(EducateMe)_spring_secur...	400	478	119	1516	9	5414	0.00%	3.29sec	16.5
(EducateMe)	600	66	6	78	6	2744	0.00%	6.0/sec	27.7
(EducateMe)create.do	400	413	109	1136	57	1349	0.00%	6.1/sec	5.4
(EducateMe)create.do	400	315	25	656	2	16395	0.00%	3.29sec	17.2
(EducateMe)edit.do	400	1069	450	3053	74	7716	0.00%	3.29sec	29.7
(EducateMe)_spring_secur...	400	483	91	1511	8	5871	0.00%	3.29sec	14.1
TOTAL	3600	396	60	1272	5	16295	0.00%	27.3/sec	167.9

### Graph



## 2.6 Crear un mensaje, listar los mensajes y ver un mensaje

**Descripción del ordenador que ha realizado el caso de uso:**

Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 30 clientes.

### Thread Group

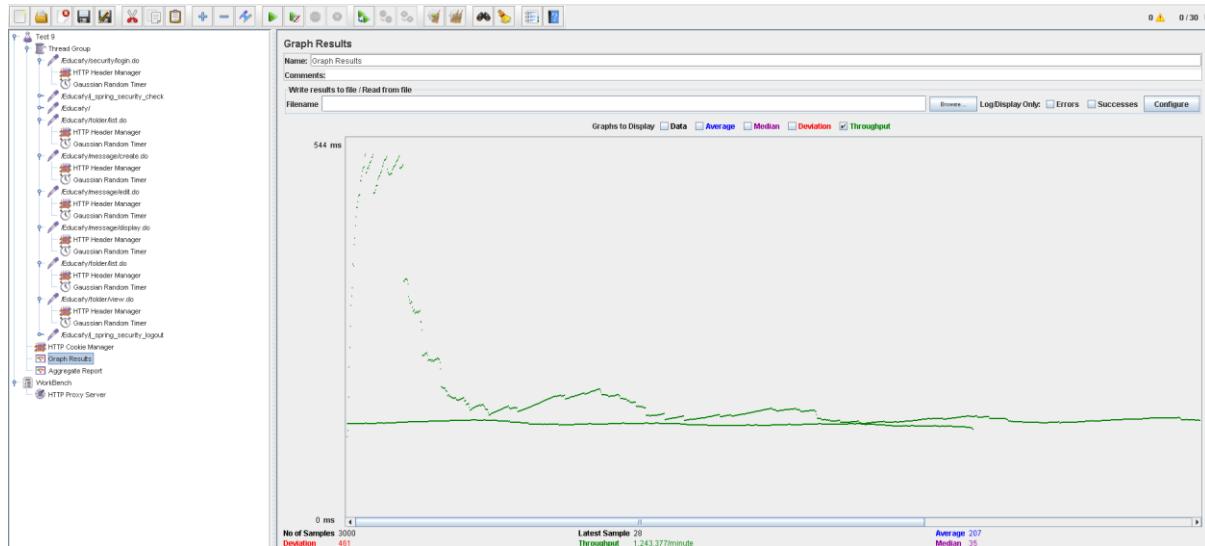
The screenshot shows the JMeter interface with a 'Test Plan' tree on the left and a 'Thread Group' configuration panel on the right. The 'Thread Group' panel includes fields for 'Name' (Thread Group), 'Comments', 'Action to be taken after a Sampler error', 'Number of Threads (users):' set to 30, 'Ramp Up Period (in seconds):' set to 1, 'Loop Count:' set to 'Forever' 10, and checkboxes for 'Delay Thread creation until needed' and 'Scheduler'. The 'Test Plan' tree shows a 'Thread Group' node containing various samplers like 'HTTP Header Manager', 'Gaussian Random Timer', and 'HTTP Cookie Manager'.

### Report

The screenshot shows the JMeter interface with an 'Aggregate Report' configuration panel on the right. The panel includes fields for 'Name' (Aggregate Report), 'Comments', 'Write results to file / Read from file', and a 'Results' table. The table lists performance metrics for 30 users across 10 loops. The columns include 'Label', '# Samples', 'Average', 'Median', '90% Line', 'Min', 'Max', 'Error %', 'Throughput', and 'kB/sec'. The data shows values such as Average response times ranging from 47 to 143 ms, and Throughput values ranging from 2.29sec to 2.9sec. The 'Test Plan' tree on the left shows the same structure as the Thread Group configuration.

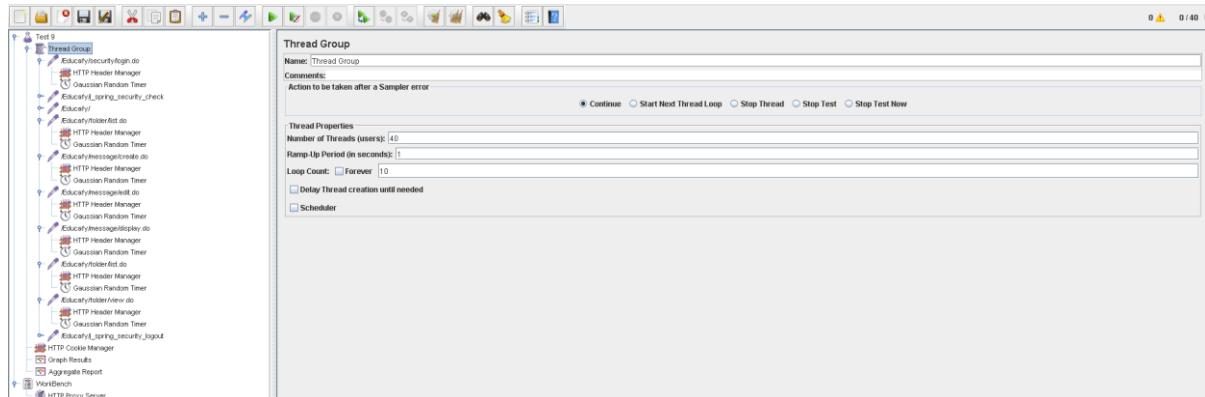
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
Educateysecurity_login.do	300	65	15	110	4	2091	0.00%	2.39sec	18.2
Educatey_spring_revert.	300	47	28	91	0	1000	0.00%	2.29sec	11.0
Educatey_headerfirst.do	300	19	12	35	0	175	0.00%	2.29sec	11.1
Educatey_headerlast.do	600	143	31	348	9	2568	0.00%	4.29sec	28.3
Educatey_headercreate.do	300	240	68	1000	17	2568	0.00%	2.29sec	11.0
Educatey_messageread.do	300	980	701	2175	97	4757	0.00%	2.29sec	13.5
Educatey_messageedit.do	300	231	68	716	13	2435	0.00%	2.29sec	11.6
Educatey_headerlist.do	300	103	52	220	17	2112	0.00%	2.29sec	24.5
Educatey_headerlistdisplay.do	300	49	22	87	7	379	0.00%	2.29sec	9.9
Educatey_headerfirst.do	2000	207	25	636	0	4757	0.00%	20.7sec	128.5

## Graph

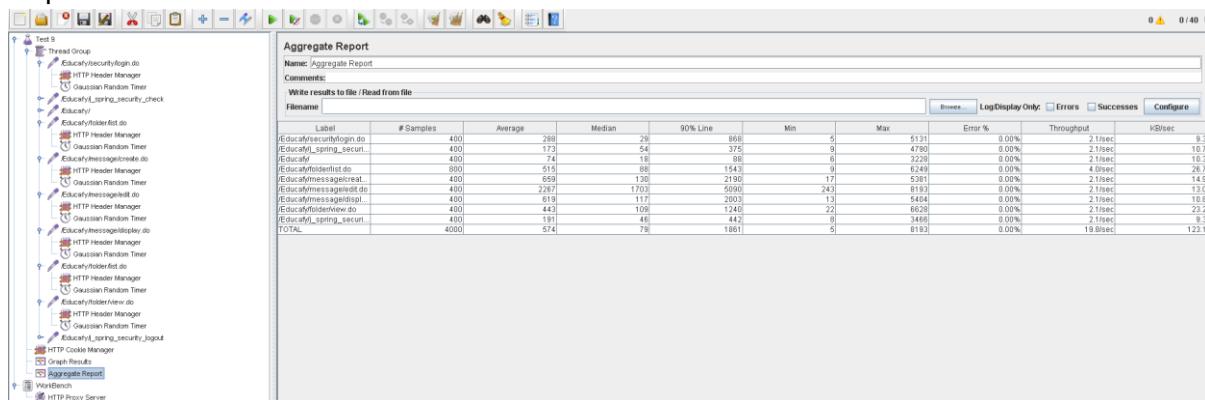


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 40 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

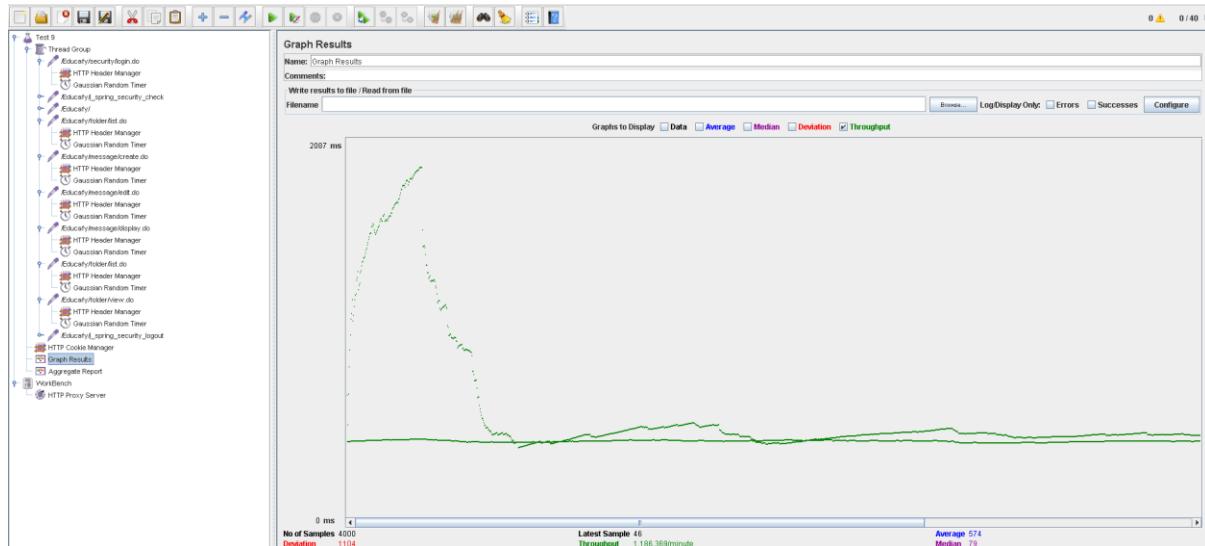
## Thread Group



## Report



## Graph



## 2.7 Listar todas las asignaturas del sistema, mostrar una asignatura, mostrar una clase, mostrar una valoración y mostrar un comentario

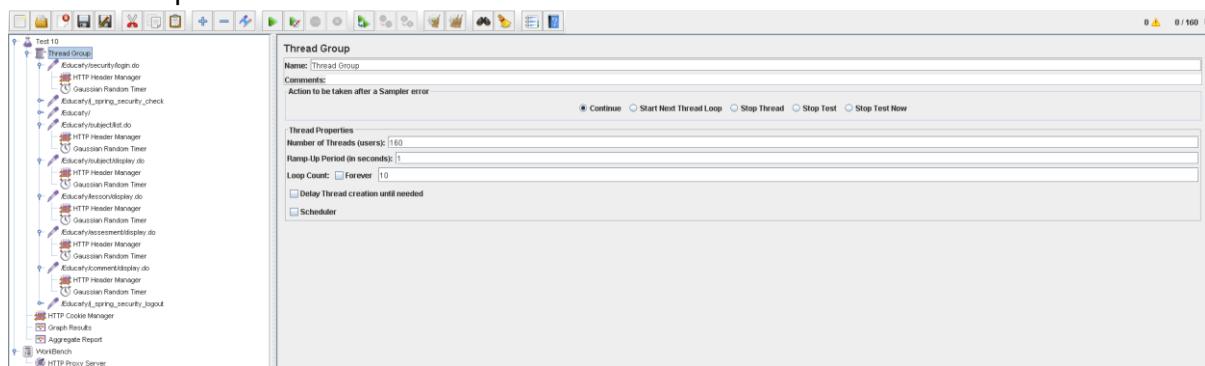
**Descripción del ordenador que ha realizado el caso de uso:**

Toshiba Satelite P50B10V:

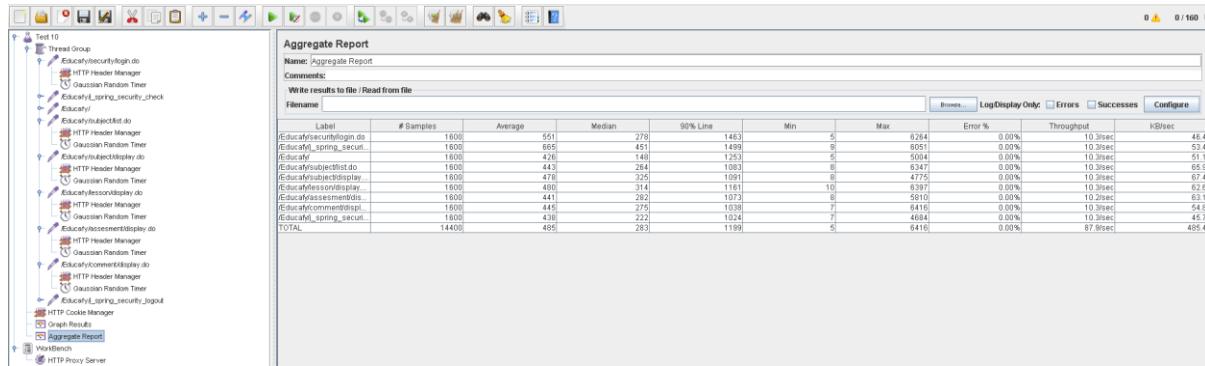
- Procesador: 2,5GHz Intel Core i7
- Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 160 clientes.

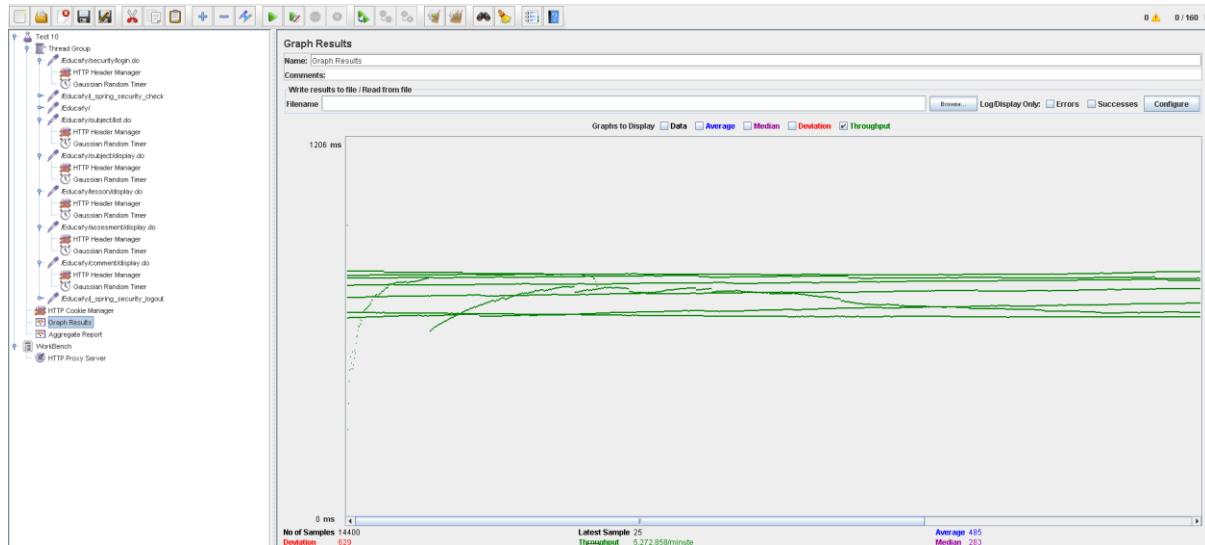
## Thread Group



## Report

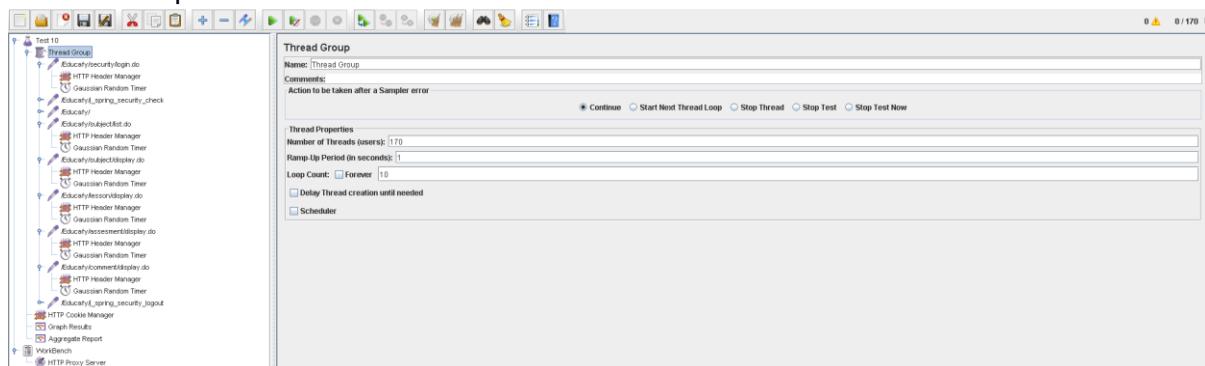


## Graph

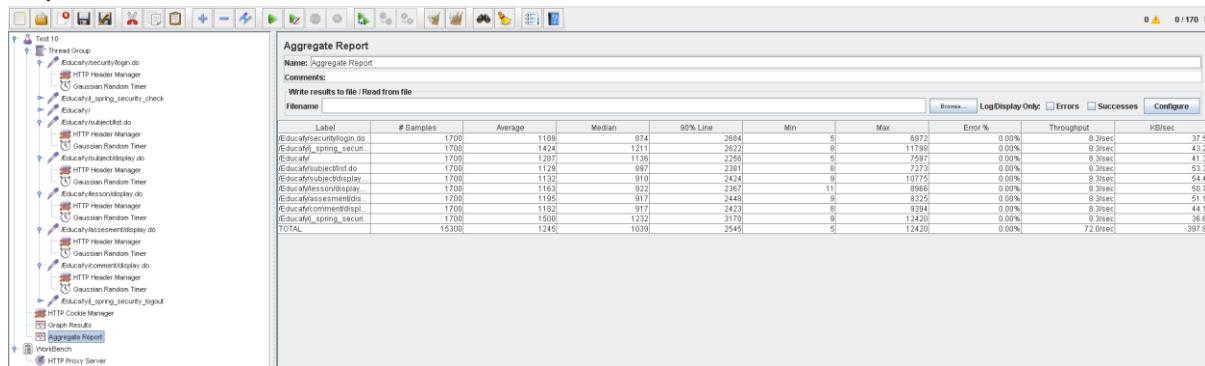


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 170 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

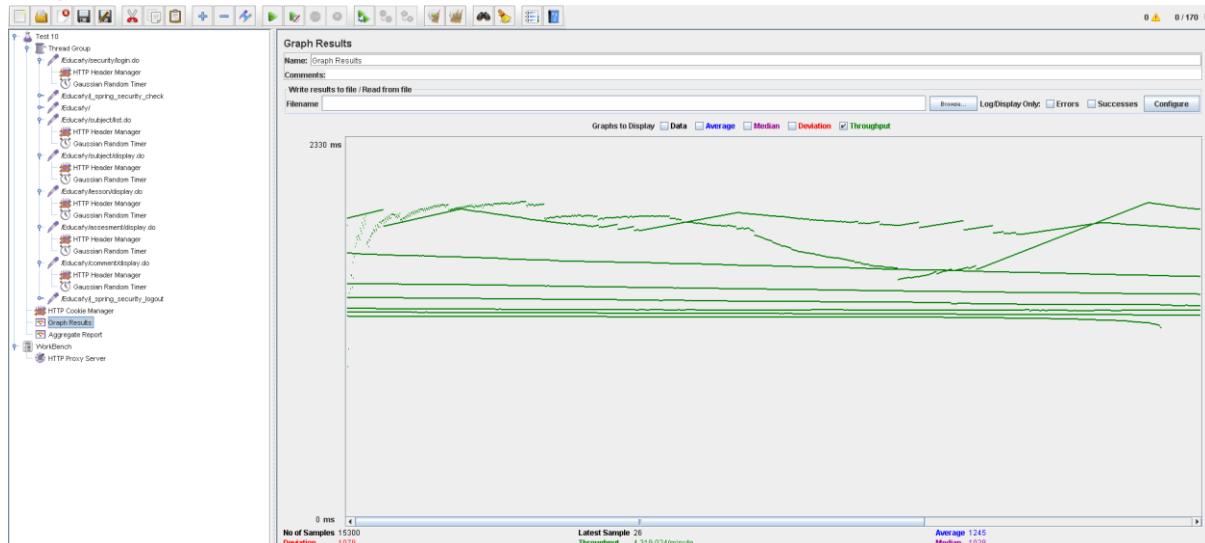
## Thread Group



## Report



## Graph



## 2.8 Listar los profesores del sistema y navegar por los currículos de los profesores

### Descripción del ordenador que ha realizado el caso de uso:

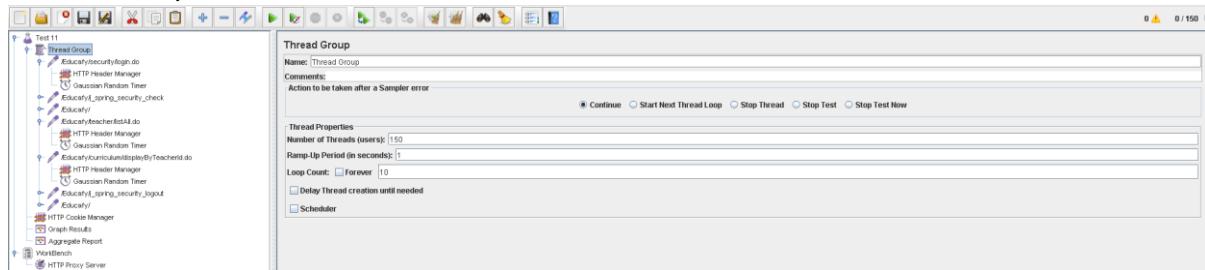
Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 150 clientes.

## Thread Group



## Report

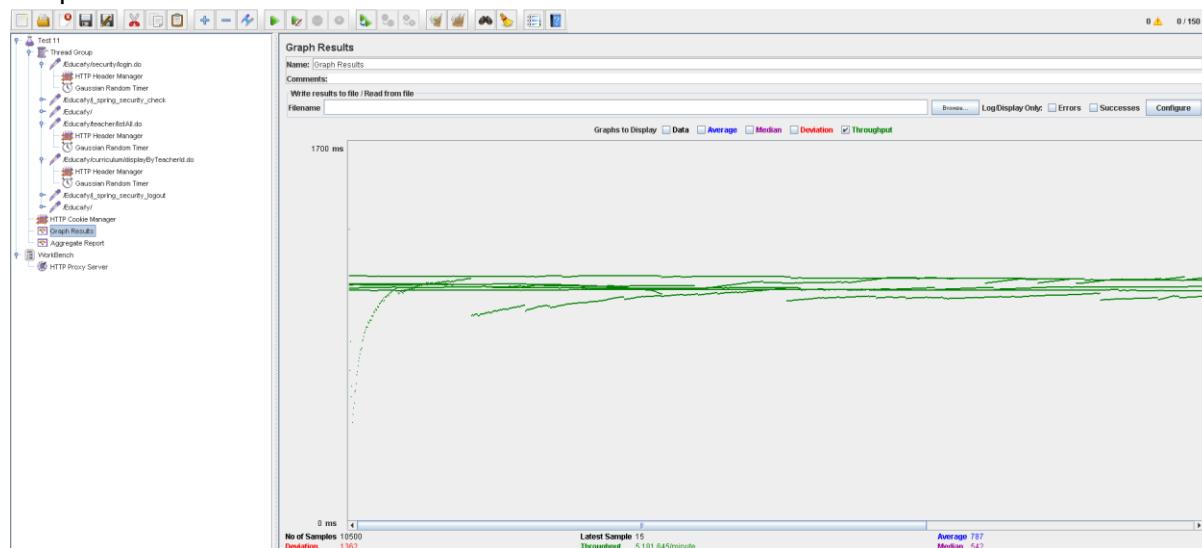
Test 11

Aggregate Report

Name: Aggregate Report  
Comments:  
Write results to file / Read from file  
Filename:

Label	# Samples	Average	Median	99% Line	Min	Max	Error %	Throughput	kB/sec
EdutecySecurityLogin.do	1500	1198	945	1794	5	23026	0.00%	12.8/sec	57.1
EdutecySecurityLogout.do	1500	1149	959	1878	6	12594	0.00%	12.6/sec	65.7
Gaussian Random Timer	3000	157	171	184	6	10944	0.00%	24.7/sec	113.2
EdutecyCurriculumUpdateByTeacherId.do	1500	624	428	1519	6	7282	0.00%	12.6/sec	74.6
EdutecyHeaderListAll.do	1500	614	449	1381	10	5275	0.00%	12.7/sec	91.5
Gaussian Random Timer	1500	510	388	1098	9	5018	0.00%	12.7/sec	58.2
Edutecy_Spring_Security_JLogout	1500	787	542	1579	5	23026	0.00%	88.4/sec	449.2
Edutecy!	1500	787	542	1579	5	23026	0.00%	88.4/sec	449.2
HTTP Cookie Manager	1500	787	542	1579	5	23026	0.00%	88.4/sec	449.2
Graph Results	15000	787	542	1579	5	23026	0.00%	88.4/sec	449.2
Aggregate Report	15000	787	542	1579	5	23026	0.00%	88.4/sec	449.2
MaxBench	15000	787	542	1579	5	23026	0.00%	88.4/sec	449.2
HTTP Proxy Server	15000	787	542	1579	5	23026	0.00%	88.4/sec	449.2

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 160 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group

Test 11

Thread Group

Name: Thread Group  
Comments:  
Action to be taken after a Sampler error  
 Continue    Start Next Thread Loop    Stop Thread    Stop Test    Stop Test Now

Thread Properties  
Number of Threads (users): 160  
Ramp Up Period (in seconds): 1  
Loop Count:  Forever   10  
 Delay thread creation until needed  
 Scheduling

## Report

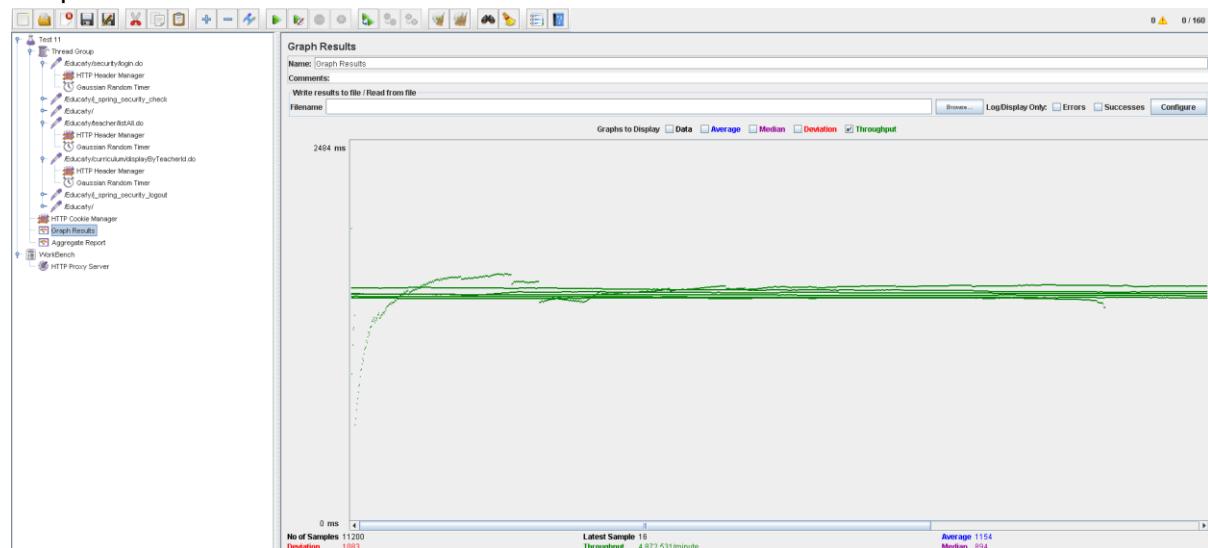
Test 11

Aggregate Report

Name: Aggregate Report  
Comments:  
Write results to file / Read from file  
Filename:

Label	# Samples	Average	Median	99% Line	Min	Max	Error %	Throughput	kB/sec
EdutecySecurityLogin.do	1600	1896	769	2572	5	9865	0.00%	11.8/sec	53.8
Edutecy_Spring_Securi...	1600	1300	1026	2307	6	7559	0.00%	11.8/sec	61.9
Gaussian Random Timer	3200	1178	944	2335	6	9457	0.00%	23.2/sec	108.5
EdutecyHeaderListAll.do	1600	1046	739	2384	7	8233	0.00%	11.8/sec	70.1
EdutecyCurriculumUpdateByTeacherId...	1600	1411	751	2387	8	9163	0.00%	11.8/sec	63.8
Gaussian Random Timer	1600	1234	749	2835	6	8161	0.00%	11.8/sec	52.6
Edutecy_Spring_Security_JLogout	1600	1154	894	2488	5	9865	0.00%	81.2/sec	422.9
Edutecy!	1600	1154	894	2488	5	9865	0.00%	81.2/sec	422.9
HTTP Cookie Manager	1600	1154	894	2488	5	9865	0.00%	81.2/sec	422.9
Graph Results	16000	1154	894	2488	5	9865	0.00%	81.2/sec	422.9
Aggregate Report	16000	1154	894	2488	5	9865	0.00%	81.2/sec	422.9
MaxBench	16000	1154	894	2488	5	9865	0.00%	81.2/sec	422.9
HTTP Proxy Server	16000	1154	894	2488	5	9865	0.00%	81.2/sec	422.9

## Graph



# 3.Un actor autenticado como CERTIFICADOR puede

## 3.1 Certificar un registro en modo final de un curriculum

**Descripción del ordenador que ha realizado el caso de uso:**

Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 140 clientes.

### Thread Group

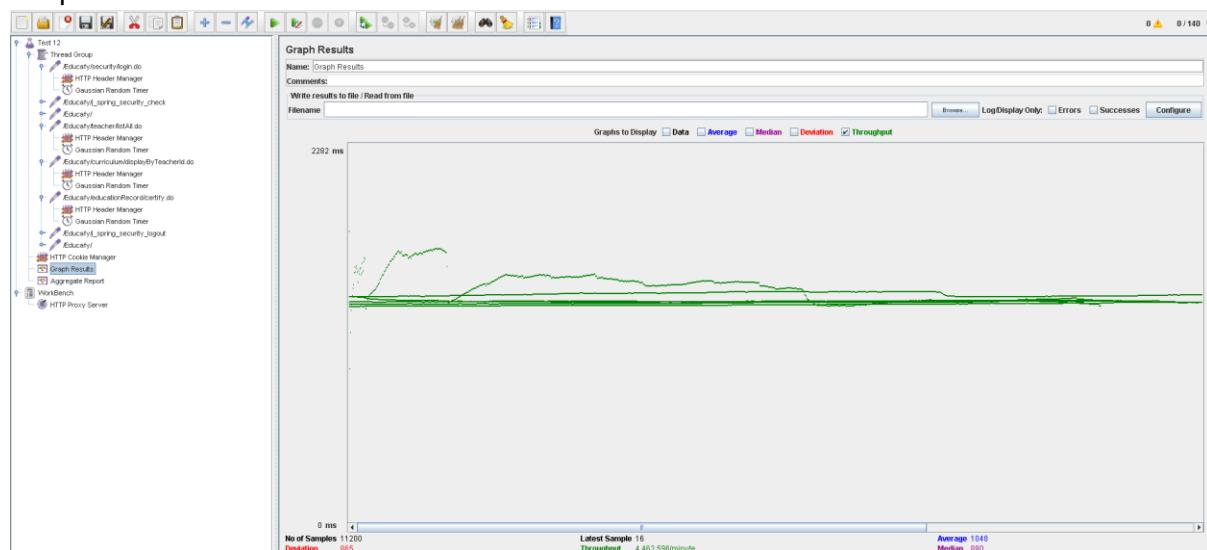
The screenshot shows the JMeter Thread Group configuration. The 'Number of Threads (users)' is set to 140, 'Ramp-Up Period (in seconds)' is 1, and 'Loop Count' is set to Forever 10. Other settings like 'Delay Thread creation until needed' and 'Scheduler' are unchecked.

### Report

The screenshot shows the JMeter Aggregate Report. It displays performance metrics for 140 users over 11200 samples. Key values include Average response time of 1040 ms, Median of 880 ms, and Throughput of 74.4/sec. The report also includes a table of detailed sample statistics.

Label	# Samples	Average	Median	95% Line	Min	Max	Error %	Throughput	kB/sec
Educayl_securinglogin.ds	1400	1036	1181	2335	5	5413	0.00%	9.6/sec	4.3
Educayl_spring_secun.	1400	1407	1181	2558	6	6565	0.00%	9.6/sec	4.5
Educayl_spring_secun.	200	1116	1030	2372	6	7019	0.00%	10.6/sec	6.1
Educayl_securingAll.ds	1400	908	732	1981	8	5773	0.00%	9.6/sec	5.2
Educayl_curriculumdisp.ds	1400	938	746	1998	9	6887	0.00%	9.6/sec	6.0
Educayl_curriculumdisp.ds	1400	1013	741	2101	9	7744	0.00%	9.6/sec	6.6
Educayl_spring_secun.	1400	852	519	1294	9	6461	0.00%	9.6/sec	4.25
<b>TOTAL</b>	<b>11200</b>	<b>1040</b>	<b>880</b>	<b>2114</b>	<b>6</b>	<b>7891</b>	<b>0.00%</b>	<b>74.4/sec</b>	<b>307.0</b>

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 150 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

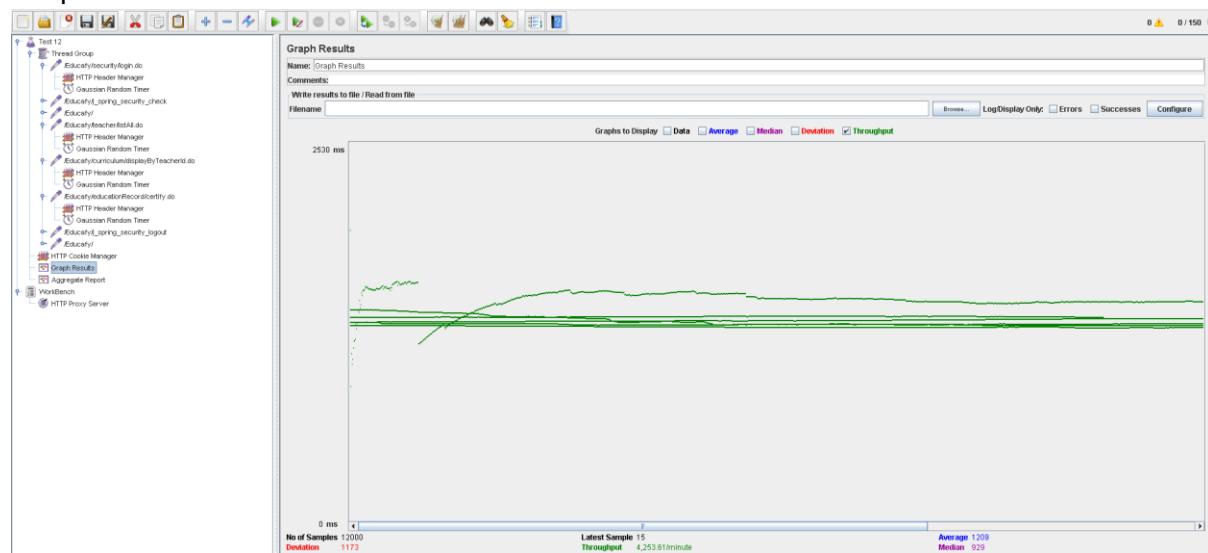
The screenshot shows the JMeter Test Plan interface. A 'Thread Group' is selected in the left tree view. The main panel displays the 'Thread Group' properties: Number of Threads (users) is set to 150, Ramp-Up Period (in seconds) is 1, and Loop Count is set to Forever. There are also options for Delay Thread creation until needed and Scheduler. Below the properties, there are tabs for Continue, Start Next Thread Loop, Stop Thread, Stop Test, and Stop Test Now.

### Report

The screenshot shows the 'Aggregate Report' results from the JMeter test. The table provides a summary of performance metrics for each request type:

Label	# Samples	Average	Median	99% Line	Min	Max	Error %	Throughput	kB/sec
EduMySecurityLogin.do	1500	1248	640	2769	4	10513	0.00%	9.1/sec	41.3
EduMy_Spring_Securi...	1500	1493	1211	2719	9	10349	0.00%	9.1/sec	43.5
EduMy...	2000	1376	1077	2609	6	12059	0.00%	17.7/sec	77.7
EduMyTeacherListAll...	1500	1147	612	2601	5	10530	0.00%	9.1/sec	45.8
EduMyCurriculumDisp...	1500	1189	828	2787	9	12301	0.00%	9.1/sec	62.9
EduMyEducationRecor...	1500	1116	798	2234	12	9554	0.00%	9.1/sec	63.3
EduMy_Spring_Securi...	1500	718	532	1307	8	9591	0.00%	9.1/sec	40.3
TOTAL	12000	1209	929	2529	4	12291	0.00%	70/sec	369.0

### Graph



# 4. Un actor autenticado como PROFESOR puede

## 4.1 Listar sus lecciones y listar las valoraciones recibidas

**Descripción del ordenador que ha realizado el caso de uso:**

Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

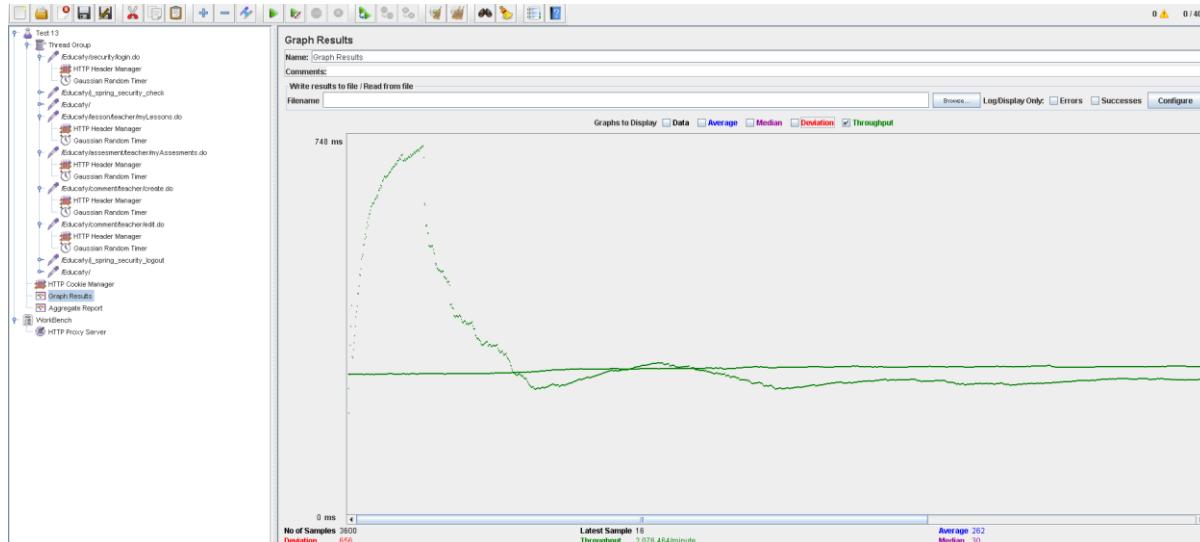
**Caso Positivo:** El sistema, en este caso, es capaz de soportar 40 clientes.

### Thread Group

### Report

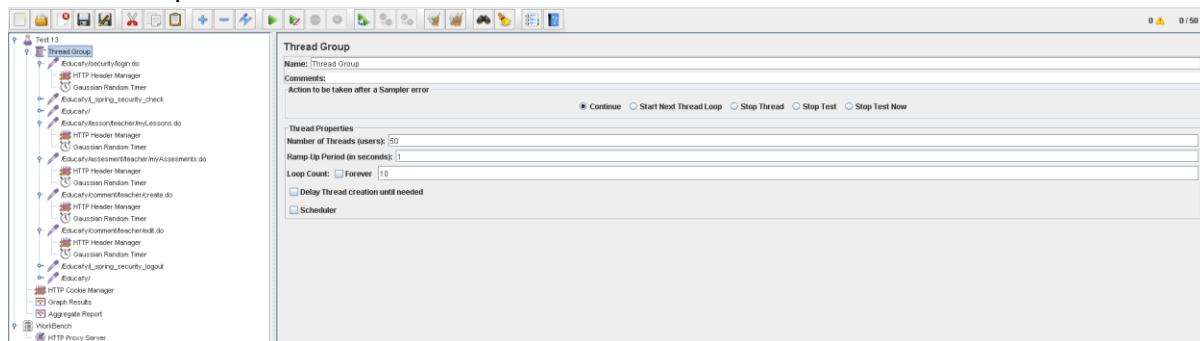
Label	# Samples	Average	Median	90% Line	Min	Max	Error	Throughput	xB/sec
EducateySecurityLogin	400	240	33	709	5	4671	0.00%	4.1/sec	18.8
EducateySpringSecurityCheck	400	203	41	931	9	4699	0.00%	4.1/sec	21.1
Educatey	600	36	9	29	6	3177	0.00%	7.7/sec	34.0
EducateyLessonTeacherLessons	400	159	43	403	8	1907	0.00%	4.1/sec	24.8
EducateyAssessmentTeacherMyAssessments	400	143	26	385	11	1908	0.00%	4.1/sec	24.3
EducateyCommentTeacherCreate	400	275	35	615	7	8179	0.00%	4.1/sec	22.3
EducateyHeaderManager	400	852	311	2479	107	6249	0.00%	4.1/sec	32.0
EducateyCommentTeacherDelete	400	328	27	1165	5	2027	0.00%	4.1/sec	15.1
EducateySpringSecurityLogout	400	202	30	770	5	8249	0.00%	34.6/sec	188.2
<b>TOTAL</b>	<b>3600</b>	<b>202</b>	<b>30</b>	<b>770</b>	<b>5</b>	<b>8249</b>	<b>0.00%</b>	<b>34.6/sec</b>	<b>188.2</b>

## Graph

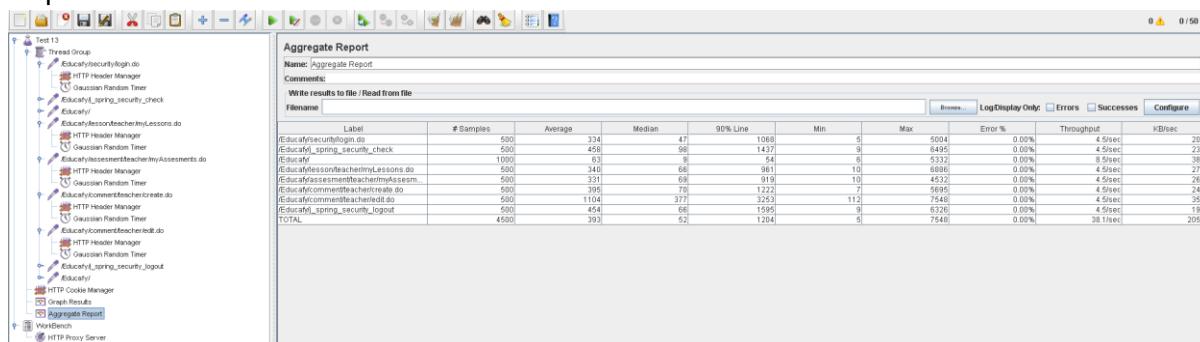


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 50 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

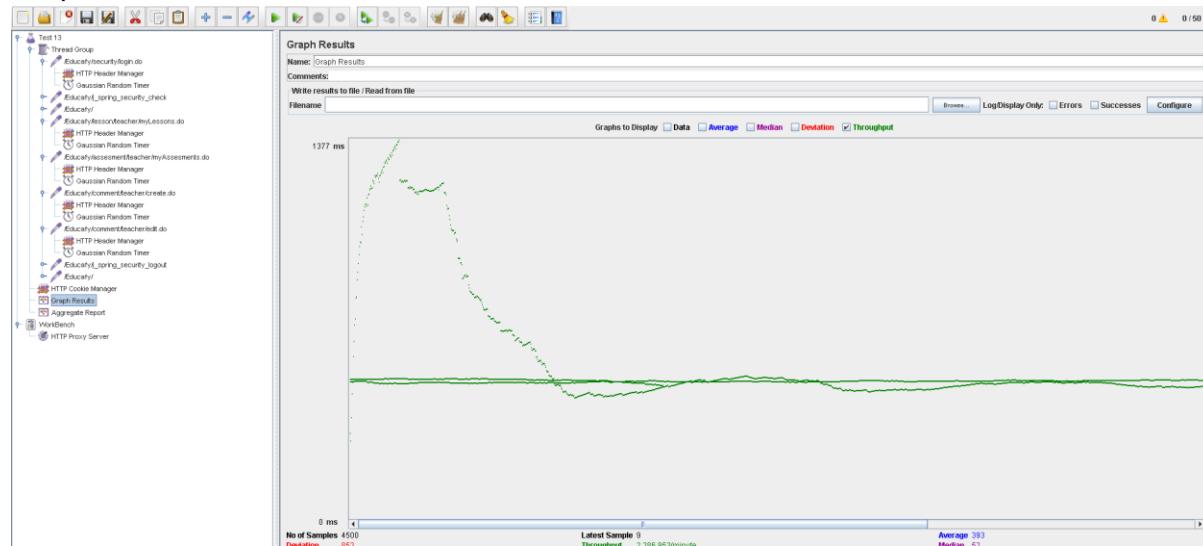
## Thread Group



## Report



## Graph



## 4.2 Crear una lección sobre una asignatura

### Descripción del ordenador que ha realizado el caso de uso:

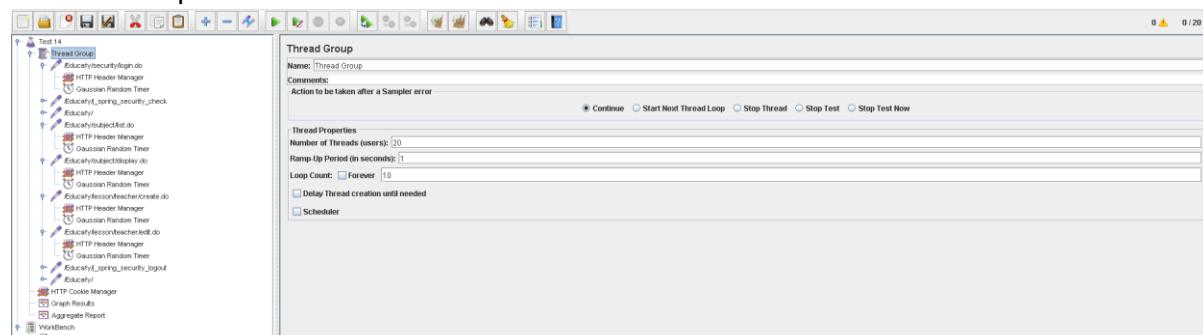
Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

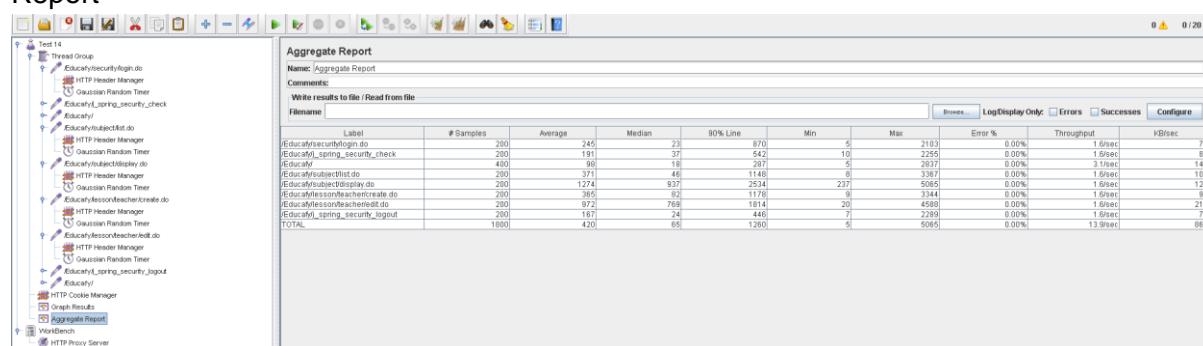
-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 20 clientes.

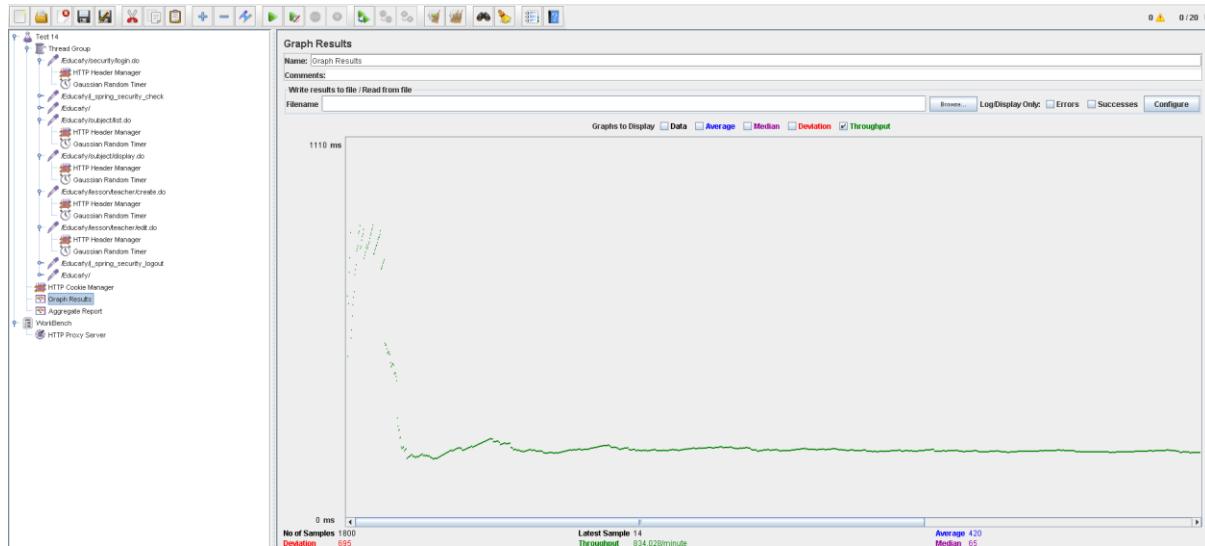
### Thread Group



### Report

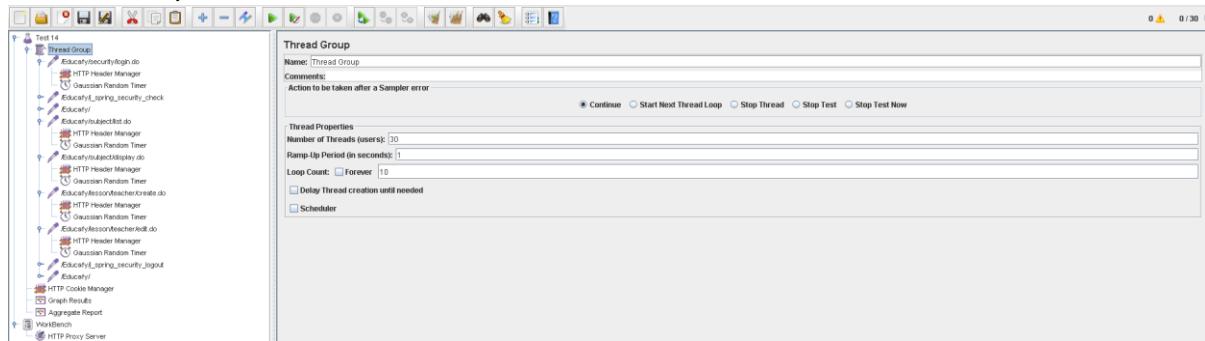


## Graph

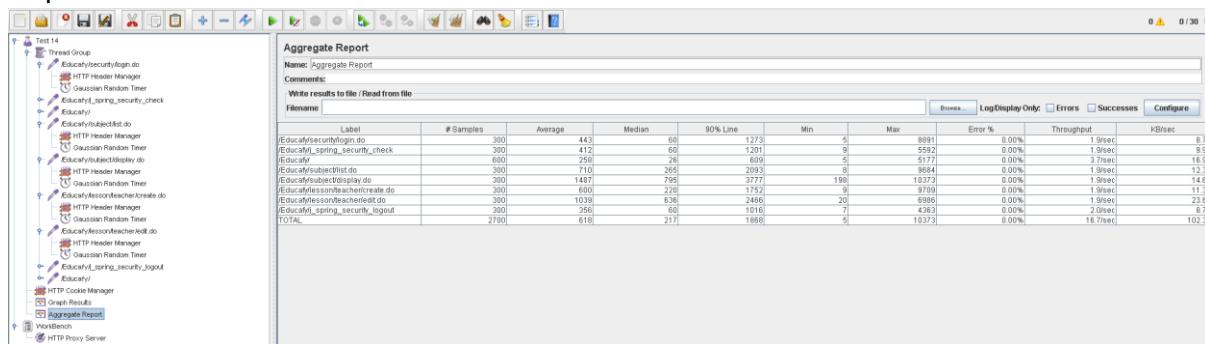


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 30 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

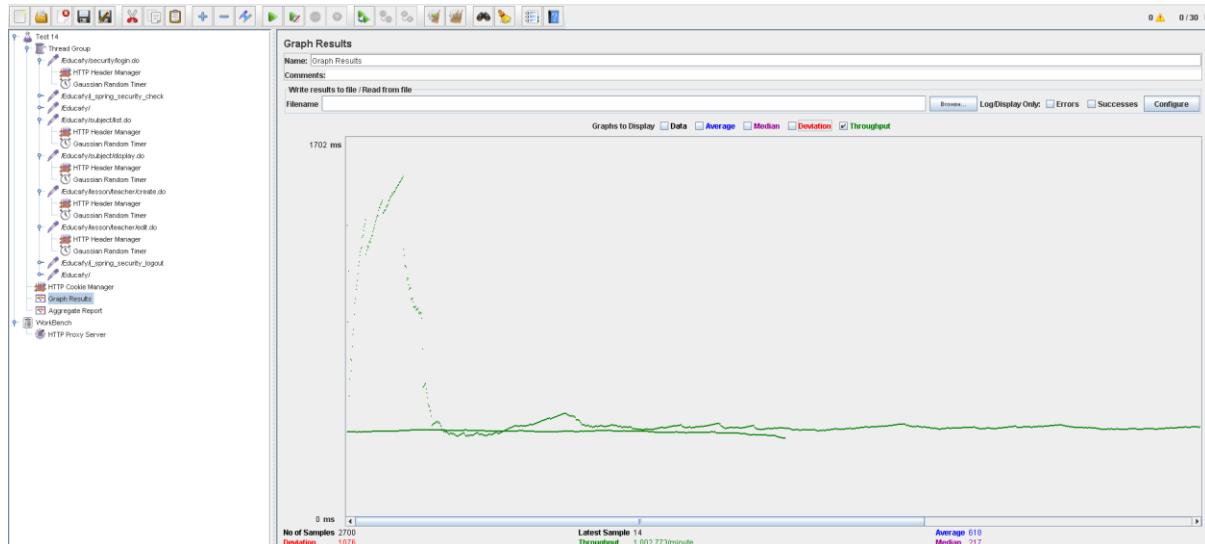
## Thread Group



## Report



## Graph



## 4.3 Consultar su horario

### Descripción del ordenador que ha realizado el caso de uso:

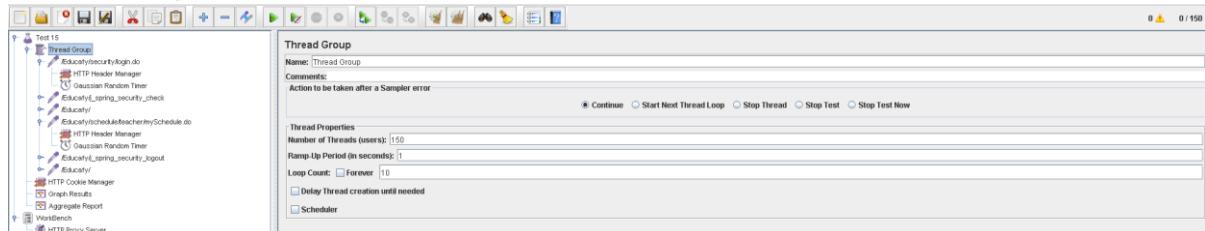
Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

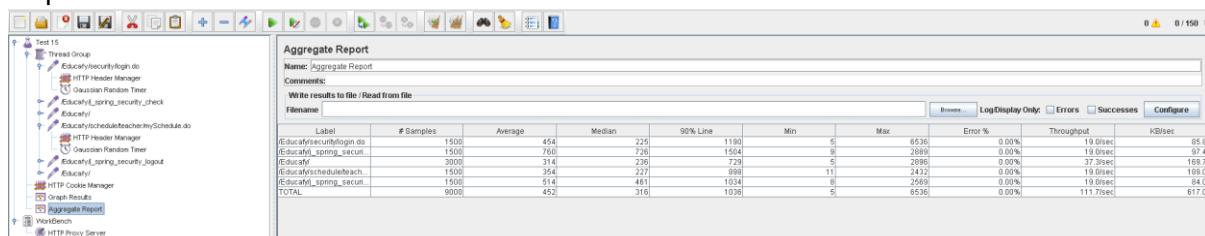
-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 150 clientes.

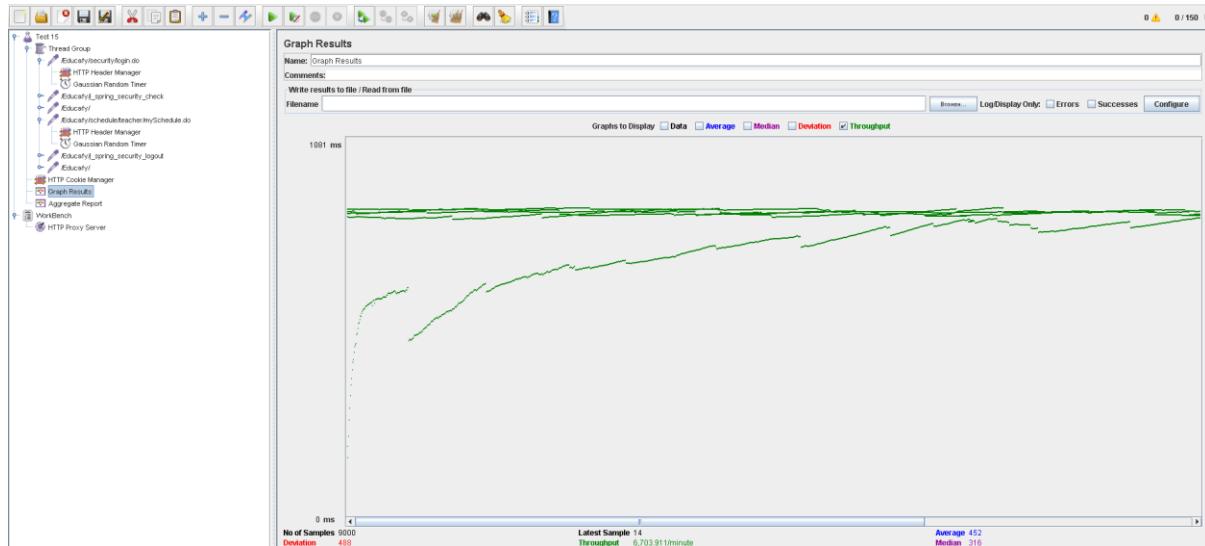
### Thread Group



### Report

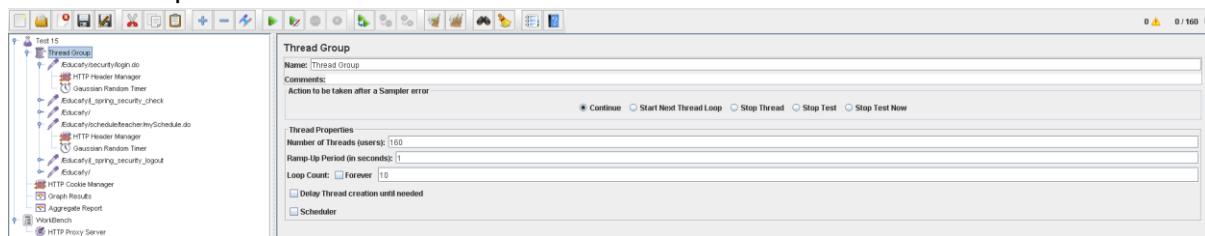


## Graph

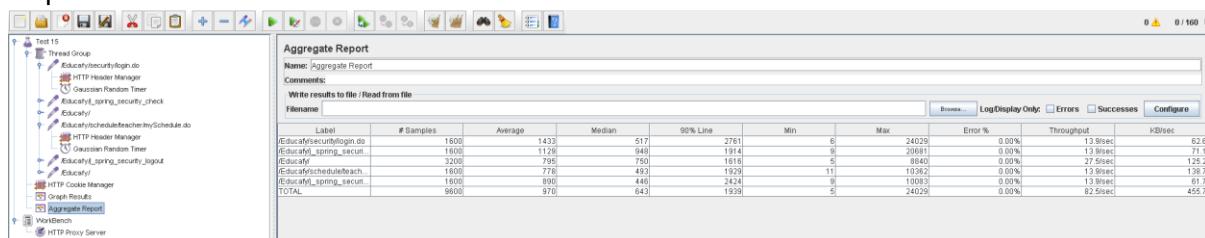


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 160 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

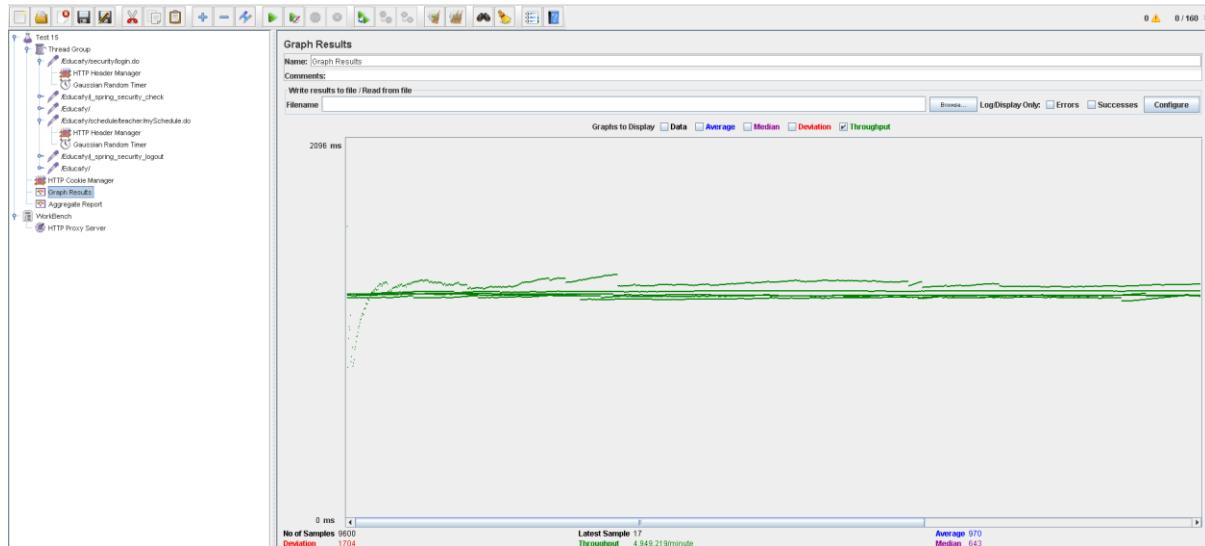
## Thread Group



## Report



## Graph



## 4.4 Ver su currículum, ver su registro personal, ver un registro educativo, ver un registro misceláneo

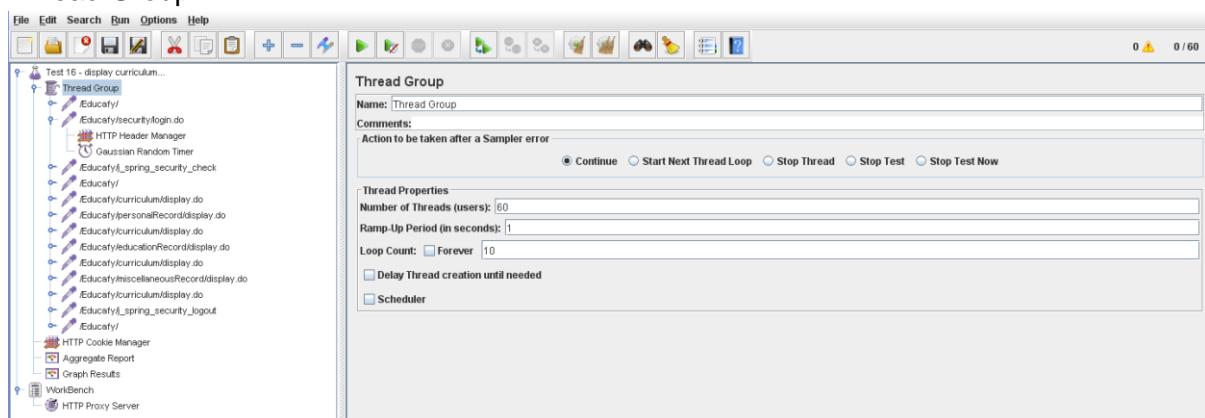
**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 60 clientes.

## Thread Group



## Report

File Edit Search Run Options Help

Test 16 - display curriculum...

- Thread Group
  - /Educayf
  - /Educayf/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf\_spring\_security\_check
  - /Educayf
  - /Educayf/curriculum/display.do
  - /Educayf/personalRecords/display.do
  - /Educayf/curriculum/display.do
  - /Educayf/educationRecord/display.do
  - /Educayf/curriculum/display.do
  - /Educayf/miscellaneousRecords/display.do
  - /Educayf/curriculum/display.do
  - /Educayf\_spring\_security\_logout
  - /Educayf
  - HTTP Cookie Manager
  - Aggregate Report
  - Graph Results
- WorkBench
- HTTP Proxy Server

Aggregate Report

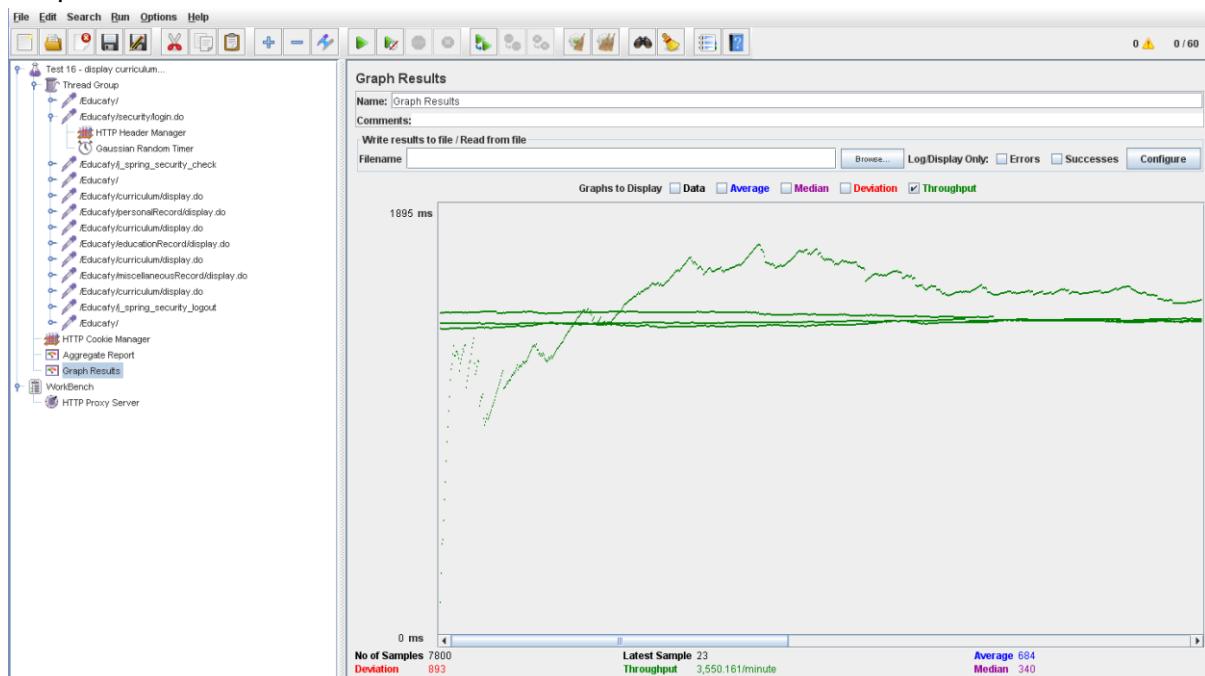
Name: Aggregate Report

Comments:

Write results to file / Read from file

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf	1000	743	340	1945	5	8419	0.00%	13.7/sec	59.9
/Educayf/security...	800	718	357	1777	7	5449	0.00%	4.7/sec	20.4
/Educayf...	800	1031	809	2141	19	6077	0.00%	4.7/sec	23.5
/Educayf/...	2400	625	314	1592	11	9528	0.00%	10.5/sec	182.2
/Educayf/person...	600	559	233	1454	10	5453	0.00%	4.7/sec	24.5
/Educayf/educa...	600	626	243	1763	11	8032	0.00%	4.7/sec	24.6
/Educayf/miscell...	600	583	244	1632	11	6941	0.00%	4.8/sec	24.1
/Educayf_sprin...	600	647	327	1777	10	4790	0.00%	4.8/sec	20.9
TOTAL	7800	684	340	1828	5	9528	0.00%	59.2/sec	388.0

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 70 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group

File Edit Search Run Options Help

Test 16 - display curriculum...

- Thread Group
  - /Educayf
  - /Educayf/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf\_spring\_security\_check
  - /Educayf
  - /Educayf/curriculum/display.do
  - /Educayf/personalRecords/display.do
  - /Educayf/curriculum/display.do
  - /Educayf/educationRecord/display.do
  - /Educayf/curriculum/display.do
  - /Educayf/miscellaneousRecords/display.do
  - /Educayf/curriculum/display.do
  - /Educayf\_spring\_security\_logout
  - /Educayf
  - HTTP Cookie Manager
  - Aggregate Report
  - Graph Results
- WorkBench
- HTTP Proxy Server

Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error

Continue  Start Next Thread Loop  Stop Thread  Stop Test  Stop Test Now

Thread Properties

Number of Threads (users): 70

Ramp-Up Period (in seconds): 1

Loop Count:  Forever 10

Delay Thread creation until needed

Scheduler

## Report

File Edit Search Run Options Help

Aggregate Report

Name: Aggregate Report

Comments:

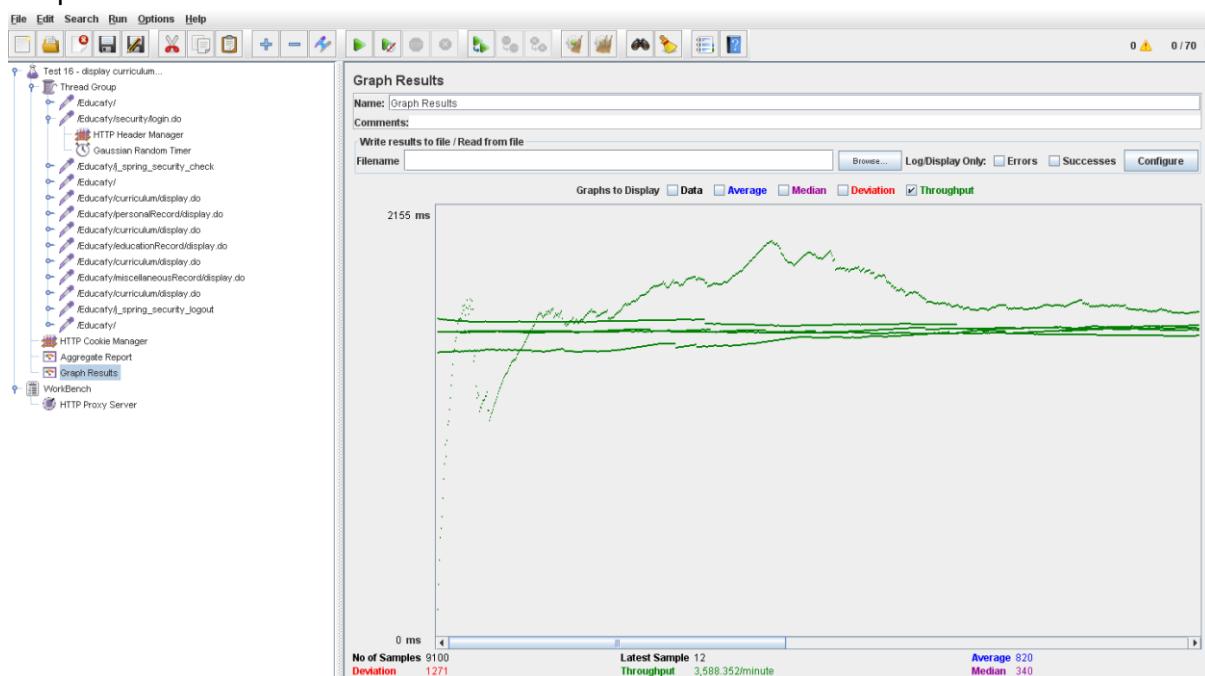
Write results to file / Read from file

Filename  Browse... Log Display Only  Errors  Successes  Configure

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayi/	2100	765	275	2098	5	14325	0.00%	13.8/sec	80.6
/Educayi/security/login.do	700	916	426	2549	7	11006	0.00%	4.7/sec	20.5
HTTP Header Manager									
Gaussian Random Timer									
/Educayi_spring_security_check									
/Educayi/									
/Educayi/curriculum/display.do									
/Educayi/personalRecords/display.do									
/Educayi/educationRecords/display.do									
/Educayi/curriculum/display.do									
/Educayi/miscellaneousRecords/display.do									
/Educayi/curriculum/display.do									
/Educayi_spring_security_logout									
/Educayi/									
HTTP Cookie Manager									
Aggregate Report									
Graph Results									
WorkBench									
HTTP Proxy Server									

TOTAL 9100 820 340 2212 5 14325 0.00% 59.8/sec 392.1

## Graph



## 4.6 Crear y eliminar su curriculum

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 110 clientes.

### Thread Group

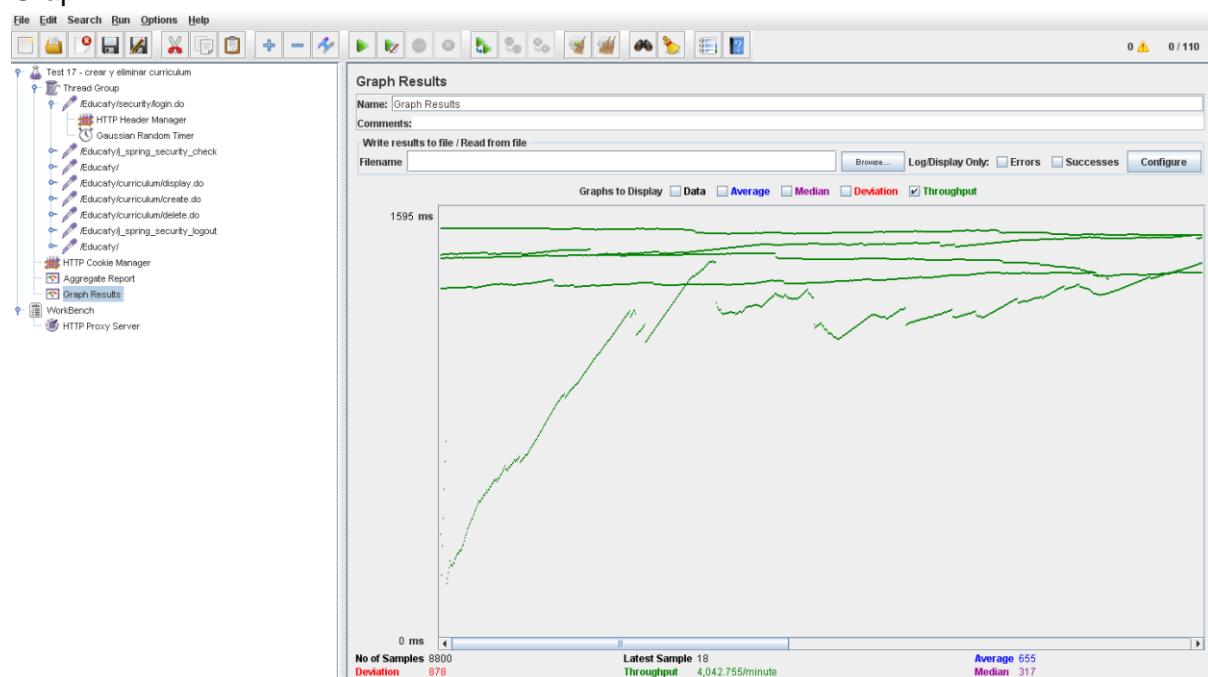
The screenshot shows the JMeter interface with the 'Thread Group' configuration open. The 'Name' field is set to 'Thread Group'. Under 'Action to be taken after a Sampler error', 'Continue' is selected. In 'Thread Properties', 'Number of Threads (users)' is set to 110, 'Ramp-Up Period (in seconds)' is 1, and 'Loop Count' is set to 'Forever' with a value of 10. Other options like 'Delay Thread creation until needed' and 'Scheduler' are unchecked.

### Report

The screenshot shows the 'Aggregate Report' section of the JMeter results. The 'Name' field is 'Aggregate Report'. The table displays various performance metrics for 1100 samples across 10 loops. Key values include Average response time of 845 ms, Median of 403 ms, and Throughput of 8.8/sec.

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educacy/security/login.do	1100	845	403	2208	6	7189	0.00%	8.8/sec	38.2
/Educacy/spring	1100	989	611	2288	9	8392	0.00%	8.8/sec	44.1
/Educacy/spring_security_check	2200	587	287	1586	5	8392	0.00%	17.3/sec	77.3
/Educacy/curriculum/display.do	1100	583	288	1642	10	6595	0.00%	9.0/sec	95.7
/Educacy/curriculum/create.do	1100	598	341	1501	12	6952	0.00%	9.0/sec	95.5
/Educacy/curriculum/delete.do	1100	518	243	1550	6	7186	0.00%	9.0/sec	114.8
/Educacy/_spring_security_logout	1100	532	242	1525	7	7255	0.00%	9.0/sec	39.3
TOTAL	8800	655	317	1807	5	8392	0.00%	67.4/sec	478.4

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 120 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

File Edit Search Run Options Help

0 0 / 120

Test 17 - crear y eliminar curriculum

- Thread Group
  - /Educacy/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educacy\_spring\_security\_check
  - /Educacy/
  - /Educacy/curriculum/display do
  - /Educacy/curriculum/create do
  - /Educacy/curriculum/delete do
  - /Educacy\_spring\_security\_logout
  - /Educacy/
  - HTTP Cookie Manager
  - Aggregate Report
  - Graph Results
- WorkBench
- HTTP Proxy Server

Thread Group

Name: Thread Group

Comments: Action to be taken after a Sampler error

Thread Properties

Number of Threads (users): 120

Ramp-Up Period (in seconds): 1

Loop Count:  Forever 10

Delay Thread creation until needed

Scheduler

### Report

File Edit Search Run Options Help

0 0 / 120

Test 17 - crear y eliminar curriculum

- Thread Group
  - /Educacy/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educacy\_spring\_security\_check
  - /Educacy/
  - /Educacy/curriculum/display do
  - /Educacy/curriculum/create do
  - /Educacy/curriculum/delete do
  - /Educacy\_spring\_security\_logout
  - /Educacy/
  - HTTP Cookie Manager
  - Aggregate Report
  - Graph Results
- WorkBench
- HTTP Proxy Server

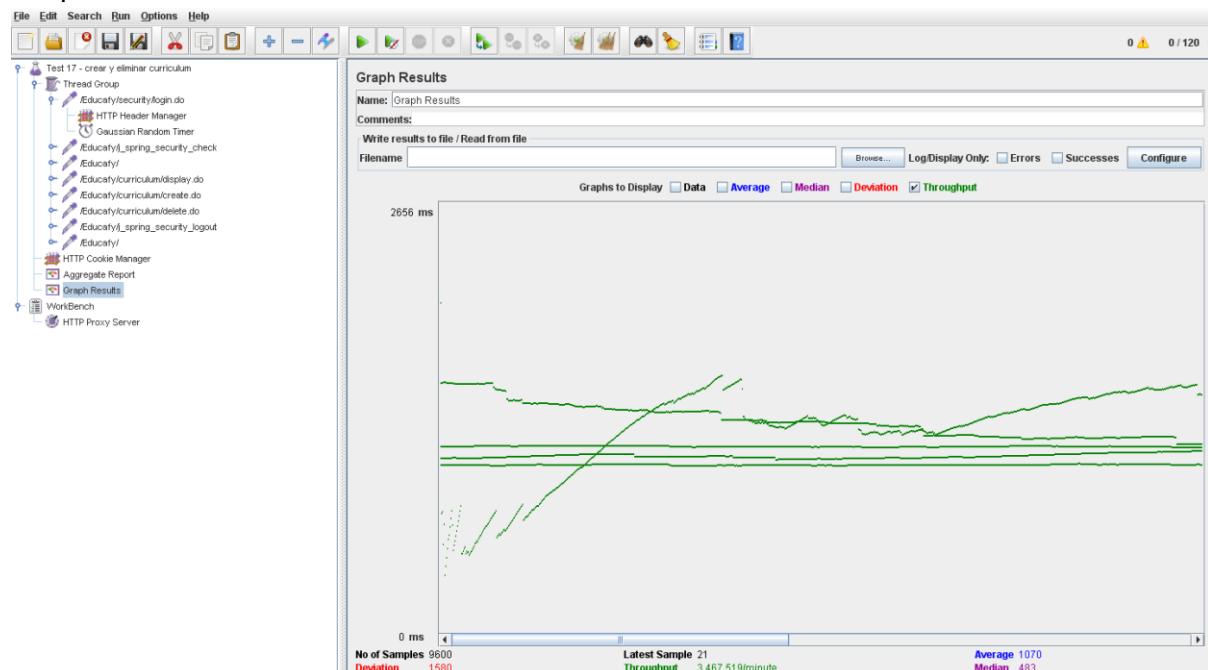
Aggregate Report

Name: Aggregate Report

Comments: Write results to file / Read from file

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educacy/security...	1200	1374	676	3474	6	14658	0.00%	7.4/sec	33.1
/Educacy_sprin...	1200	1374	939	2837	10	13020	0.00%	7.4/sec	37.4
/Educacy/	2400	921	324	2532	5	12222	0.00%	14.7/sec	65.8
/Educacy/curricu...	1200	1154	575	2846	11	12008	0.00%	7.5/sec	80.1
/Educacy/curricu...	1200	1020	476	3633	12	10897	0.00%	7.2/sec	80.0
/Educacy/curricu...	1200	987	340	27111	7	14223	0.00%	7.6/sec	96.6
/Educacy_sprin...	1200	812	313	2166	7	13746	0.00%	7.6/sec	33.0
TOTAL	9600	1070	483	2722	5	14658	0.00%	57.8/sec	410.3

### Graph



## 4.7 Editar y pasar a modo final su registro personal

**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 50 clientes.

### Thread Group

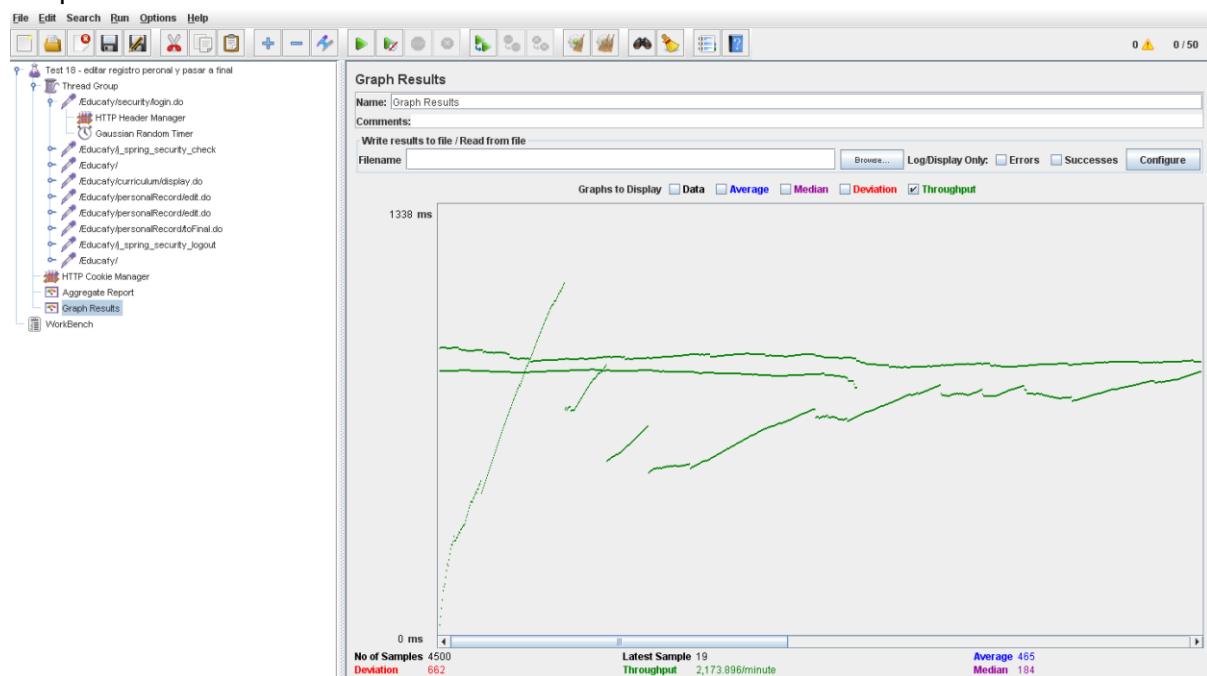
The screenshot shows the JMeter interface with the 'Thread Group' configuration open. The 'Name' field is set to 'Thread Group'. The 'Number of Threads (users)' is set to 50. The 'Ramp-Up Period (in seconds)' is set to 1. The 'Loop Count' is set to 'Forever' with a value of 10. There are also checkboxes for 'Delay Thread creation until needed' and 'Scheduler'.

### Report

The screenshot shows the JMeter interface with the 'Aggregate Report' configuration open. The 'Name' field is set to 'Aggregate Report'. The 'Filename' field is empty. The report displays various performance metrics for 4500 samples, including Average, Median, 90% Line, Min, Max, Error %, Throughput, and KB/sec. A summary table at the bottom shows the total results.

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educacy/security/login.do	500	601	351	1581	6	4237	0.00%	4.3/sec	19.3
/Educacy_sprin...	500	789	612	1780	10	4624	0.00%	4.3/sec	21.6
/Educacy/	1000	245	98	645	5	3675	0.00%	8.2/sec	36.8
/Educacy/curricul...	500	274	133	599	11	4780	0.00%	4.4/sec	46.4
/Educacy/person...	1000	672	260	1957	7	4521	0.00%	8.6/sec	76.0
/Educacy/person...	500	370	130	1151	8	3358	0.00%	4.5/sec	21.7
/Educacy_sprin...	500	315	137	842	8	311	0.00%	4.5/sec	19.5
TOTAL	4500	465	184	1426	5	4780	0.00%	36.0/sec	225.3

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 60 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

File Edit Search Run Options Help

Test 18 - editar registro personal y pasar a final

- Thread Group
  - /Educacy/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educacy\_spring\_security\_check
  - /Educacy/
  - /Educacy/curriculum/display.do
  - /Educacy/personalRecord/edit.do
  - /Educacy/personalRecordofFinal.do
  - /Educacy\_spring\_security\_logout
  - /Educacy/
  - HTTP Cookie Manager
  - Aggregate Report
  - Graph Results
  - WorkBench

Thread Group

Name: Thread Group

Comments: Action to be taken after a Sampler error

Thread Properties

Number of Threads (users): 60

Ramp-Up Period (in seconds): 1

Loop Count:  Forever 10

Delay Thread creation until needed

Scheduler

0 0 / 60

### Report

File Edit Search Run Options Help

Test 18 - editar registro personal y pasar a final

- Thread Group
  - /Educacy/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educacy\_spring\_security\_check
  - /Educacy/
  - /Educacy/curriculum/display.do
  - /Educacy/personalRecord/edit.do
  - /Educacy/personalRecordofFinal.do
  - /Educacy\_spring\_security\_logout
  - /Educacy/
  - HTTP Cookie Manager
  - Aggregate Report
  - Graph Results
  - WorkBench

Aggregate Report

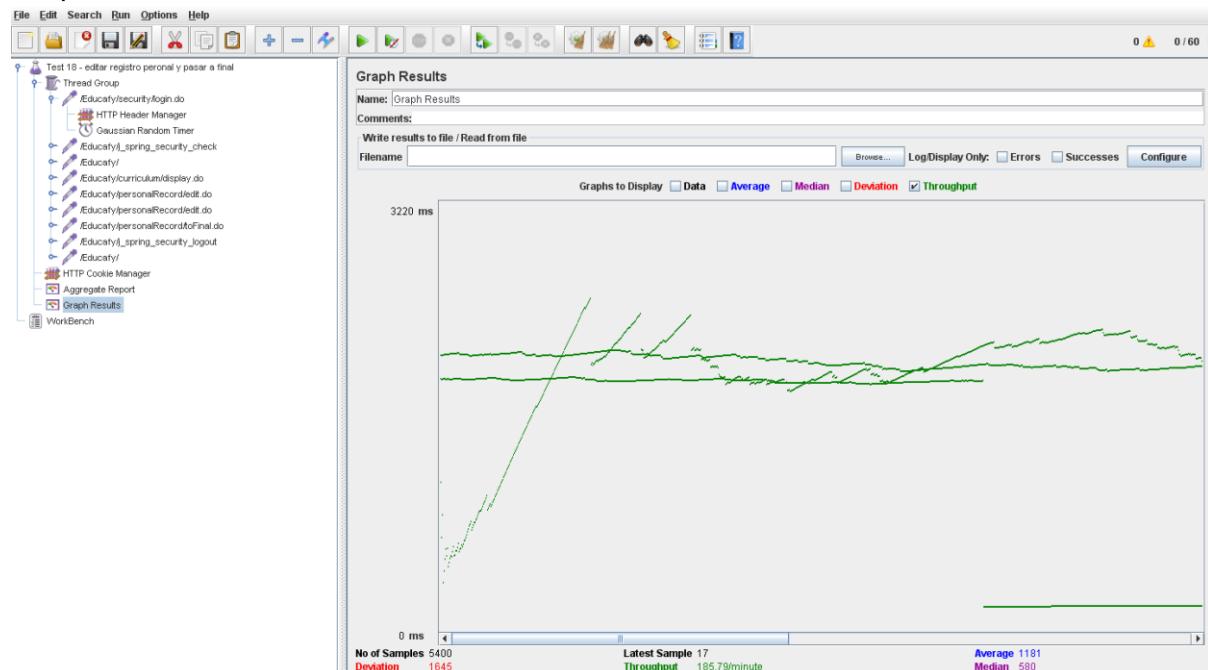
Name: Aggregate Report

Comments: Write results to file / Read from file

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educacy/security...	600	1484	920	3441	7	11808	0.00%	20.7/min	1.5
/Educacy_sprin...	600	1645	1230	3465	9	12341	0.00%	20.7/min	1.7
/Educacy...	1200	869	213	2762	4	11886	0.00%	41.3/min	3.1
/Educacy/curricul...	600	1241	580	3653	9	11947	0.00%	20.7/min	3.7
/Educacy/person...	1200	1367	678	3725	7	16648	0.00%	41.6/min	6.1
/Educacy/person...	600	970	395	2936	7	17303	0.00%	20.6/min	1.7
/Educacy_sprin...	600	815	346	2201	7	6985	0.00%	20.6/min	1.5
TOTAL	5400	1181	580	3200	4	17303	0.00%	3.1/sec	19.3

0 0 / 60

### Graph



## 4.8 Crear y eliminar un registro educativo

**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 40 clientes.

### Thread Group

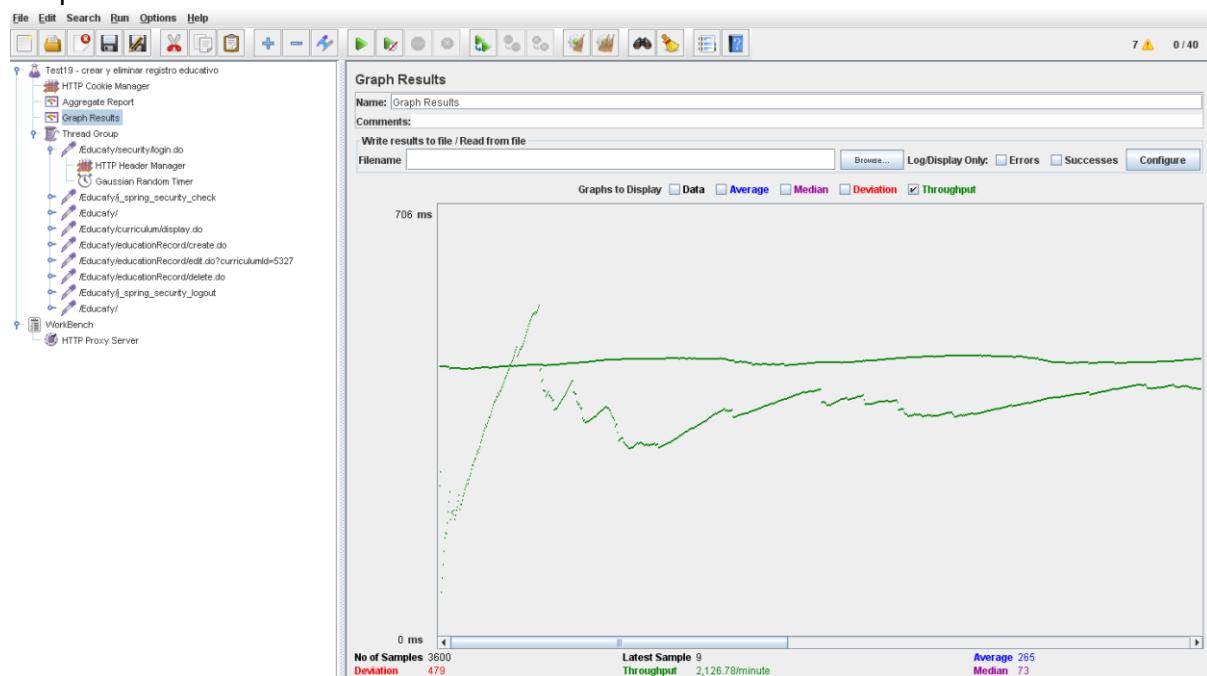
The screenshot shows the JMeter Thread Group configuration. The 'Name' field is set to 'Thread Group'. Under 'Thread Properties', 'Number of Threads (users)' is set to 40, and 'Ramp-Up Period (in seconds)' is set to 1. The 'Loop Count' is set to 'Forever' with a value of 10. There are also options for 'Delay Thread creation until needed' and 'Scheduler'.

### Report

The screenshot shows the JMeter Aggregate Report. The 'Name' field is set to 'Aggregate Report'. The report displays performance metrics for 3600 samples. Key values include Average response time of 265 ms, Median of 73 ms, and Throughput of 35.4/sec. The report also includes columns for # Samples, Average, Median, 90% Line, Min, Max, Error %, and KB/sec.

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf/security/login.do	400	170	72	399	6	1640	0.00%	4.3/sec	19.1
/Educayf/_spring_security_check	400	251	114	601	10	2253	0.00%	4.3/sec	21.6
/Educayf	800	111	24	244	5	2484	0.00%	8.0/sec	35.8
/Educayf/curriculum/display.do	400	200	89	492	22	1882	0.00%	4.4/sec	77.5
/Educayf/educationRecord/create.do	400	218	34	467	7	3441	0.00%	4.3/sec	28.8
/Educayf/educationRecord/edit.do?curriculumid=5327	400	865	577	1911	69	4345	0.00%	4.3/sec	93.2
/Educayf/educationRecord/delete.do	400	188	54	595	71	1885	0.00%	4.3/sec	54.8
/Educayf/_spring_security_logout	400	273	72	1070	71	2390	0.00%	4.3/sec	18.9
TOTAL	3600	265	73	757	5	4345	0.00%	35.4/sec	322.4

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 50 clientes, ya que hay % de error en una request cuando hace su acción indicada.

### Thread Group

Screenshot of JMeter Thread Group configuration:

**Thread Group**

- Name: Thread Group
- Comments: Action to be taken after a Sampler error: Continue
- Number of Threads (users): 50
- Ramp-Up Period (in seconds): 1
- Loop Count: Forever (0)
- Delay Thread creation until needed
- Scheduler

Test Plan Structure:

- Test19 - crear y eliminar registro educativo
  - HTTP Cookie Manager
  - Aggregate Report
  - Graph Results
  - Thread Group
    - Educacy/security/login.do
    - HTTP Header Manager
    - Gaussian Random Timer
    - Educacy\_spring\_security\_check
    - Educacy
    - Educacy/curriculum/display.do
    - Educacy/educationRecord/create.do
    - Educacy/educationRecord/edit.do?curriculumId=5327
    - Educacy/educationRecord/delete.do
    - Educacy\_spring\_security\_logout
    - Educacy
  - WorkBench
  - HTTP Proxy Server

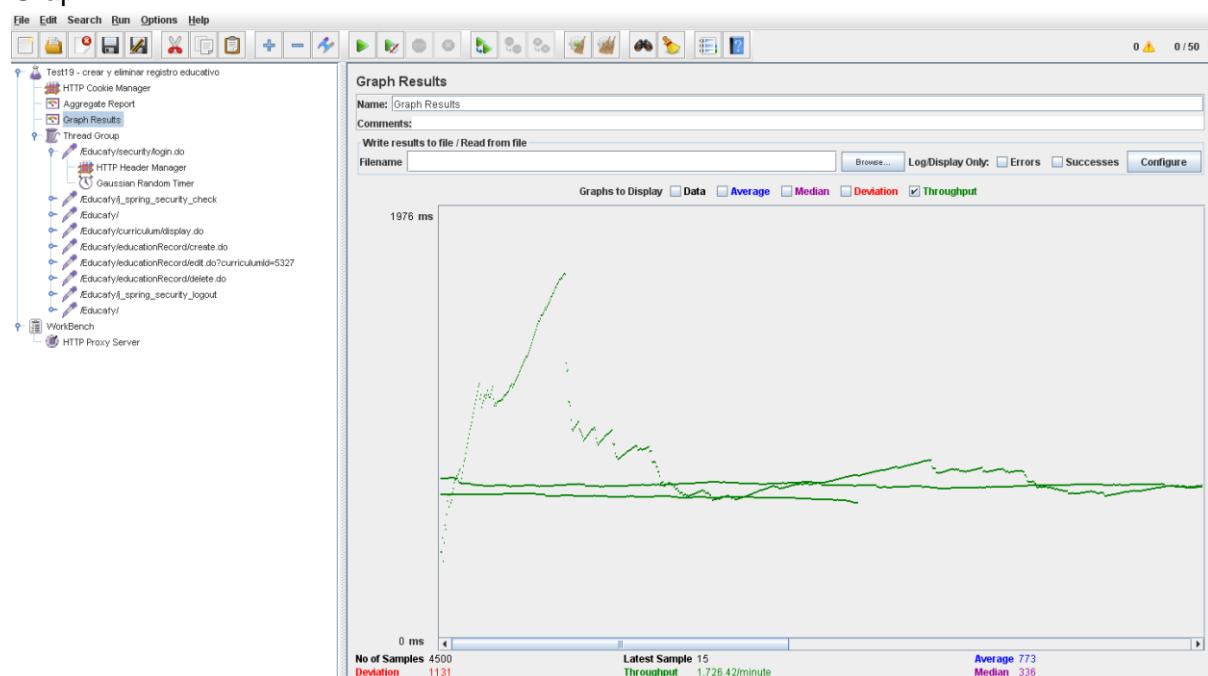
### Report

Screenshot of JMeter Aggregate Report results:

**Aggregate Report**

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
Educacy/security/login.do	500	618	280	1586	5	9838	0.00%	3.3/sec	14.9
Educacy_spring_security_check	500	809	524	1836	10	9583	0.00%	3.3/sec	18.9
Educacy	1000	461	102	1284	4	9004	0.00%	6.4/sec	28.8
Educacy/curriculum/display.do	500	987	607	2554	33	7370	0.00%	3.4/sec	62.3
Educacy/educationRecord/create.do	500	673	176	2172	6	7240	0.00%	3.4/sec	22.6
Educacy/educationRecord/edit.do?curriculumId=5327	500	1779	1251	4172	109	7418	2.40%	3.4/sec	73.3
Educacy/educationRecord/delete.do	500	599	195	1909	6	9213	0.00%	3.4/sec	43.0
Educacy_spring_security_logout	500	573	228	1652	6	4327	0.00%	3.4/sec	14.7
TOTAL	4500	773	336	2212	4	9838	0.27%	28.8/sec	264.4

### Graph



## 4.9 Editar y pasar a final un registro educativo

**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 60 clientes.

### Thread Group

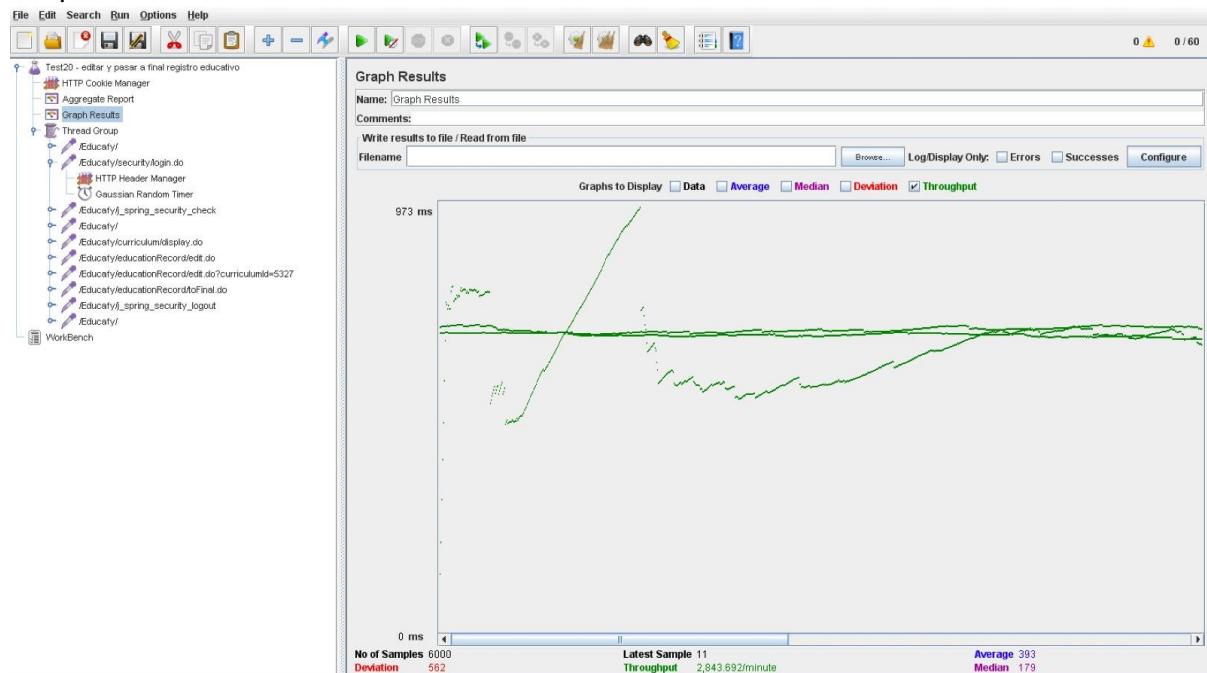
The screenshot shows the JMeter interface with the 'Thread Group' configuration open. The 'Name' field is set to 'Thread Group'. Under 'Action to be taken after a Sampler error', the radio button for 'Continue' is selected. In the 'Thread Properties' section, 'Number of Threads (users)' is set to 60, 'Ramp-Up Period (in seconds)' is 1, and 'Loop Count' is set to 'Forever' with a value of 10. There are also checkboxes for 'Delay Thread creation until needed' and 'Scheduler'.

### Report

The screenshot shows the JMeter interface with the 'Aggregate Report' configuration open. The 'Name' field is set to 'Aggregate Report'. The 'Log Display Only' checkbox is checked. The report table displays performance metrics for various samplers under 60 users:

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf/	1800	204	63	564	4	4652	0.00%	14.2/sec	62.4
/Educayf/security/login.do	600	511	254	1357	5	4612	0.00%	5.0/sec	22.0
/Educayf_spring_security_check	600	565	380	1287	7	4797	0.00%	5.0/sec	25.4
/Educayf/curriculum/display.do	600	772	470	1653	55	4950	0.00%	5.1/sec	91.8
/Educayf/educationRecord/edit.do	600	233	117	774	8	3772	0.00%	5.1/sec	34.6
/Educayf/educationRecord/edit.do?curriculumId=5327	600	655	497	1417	11	3632	100.00%	5.1/sec	2.8
/Educayf/educationRecordFinal.do	600	268	92	791	8	3436	0.00%	5.1/sec	24.3
/Educayf_spring_security_logout	600	267	110	727	6	3368	0.00%	5.1/sec	22.3
TOTAL	6000	393	179	1049	4	4950	10.00%	47.4/sec	271.2

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 70 clientes, ya que hay % de error en una request cuando hace su acción indicada.

### Thread Group

Thread Group

Name: Thread Group  
Comments:  
Action to be taken after a Sampler error: Continue

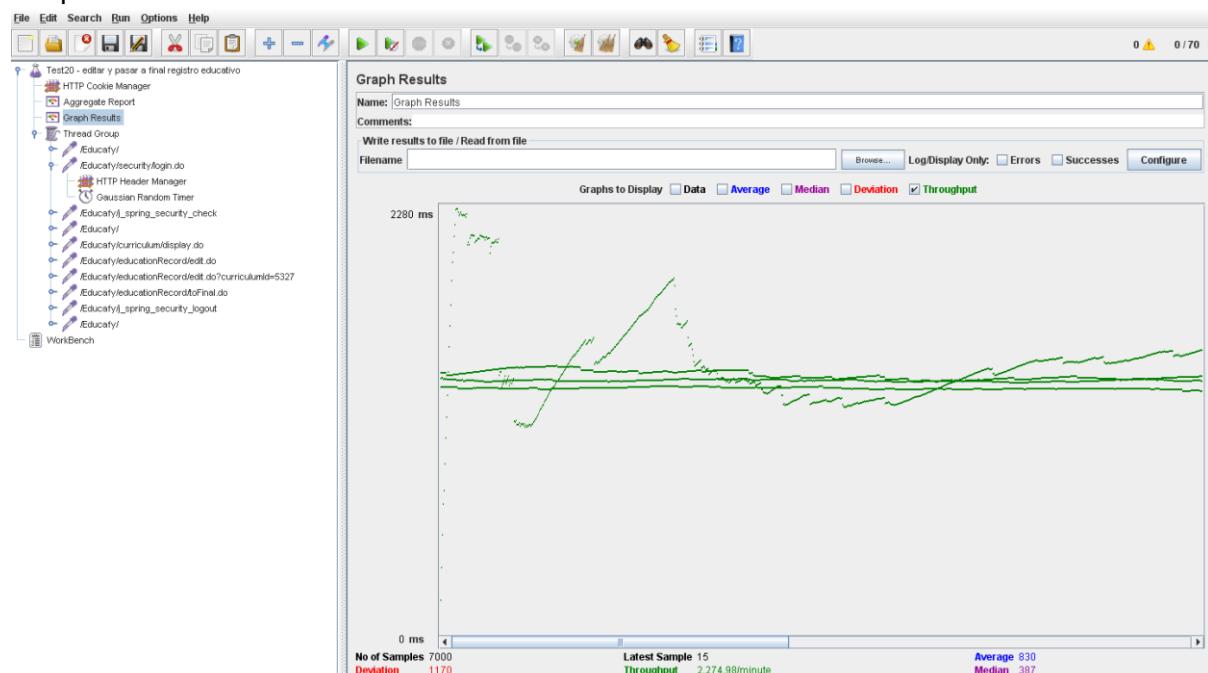
Thread Properties

Number of Threads (users): 70  
Ramp-Up Period (in seconds): 1  
Loop Count: Forever  
Delay Thread creation until needed  
Scheduler

### Report

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educify/	2100	655	155	2115	4	10434	0.00%	11.4/sec	49.9
/Educify/security/login.do	700	1032	577	2505	5	8073	0.00%	4.0/sec	17.4
/Educify_spring_security_check	700	1014	663	2391	9	8599	0.00%	4.0/sec	20.0
/Educify/curriculum/display.do	700	1197	693	2973	53	9347	0.00%	4.0/sec	72.2
/Educify/educationRecord/edit.do	700	674	266	1960	8	7407	0.00%	4.0/sec	27.2
/Educify/educationRecord/edit.do?curriculumId=5327	700	1306	954	2814	11	8562	0.00%	4.0/sec	2.2
/Educify/educationRecordFinal.do	700	586	188	1573	8	7671	0.00%	4.0/sec	19.5
/Educify_spring_security_logout	700	526	175	1205	7	6032	0.00%	4.0/sec	17.6
TOTAL	7000	830	387	2291	4	10434	0.00%	37.9/sec	216.9

### Graph



## 4.10 Crear y eliminar un registro misceláneo

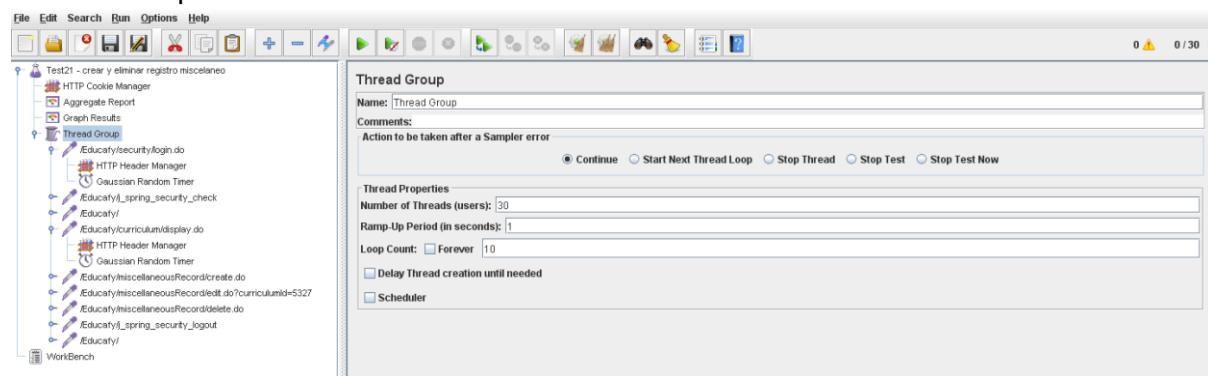
**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

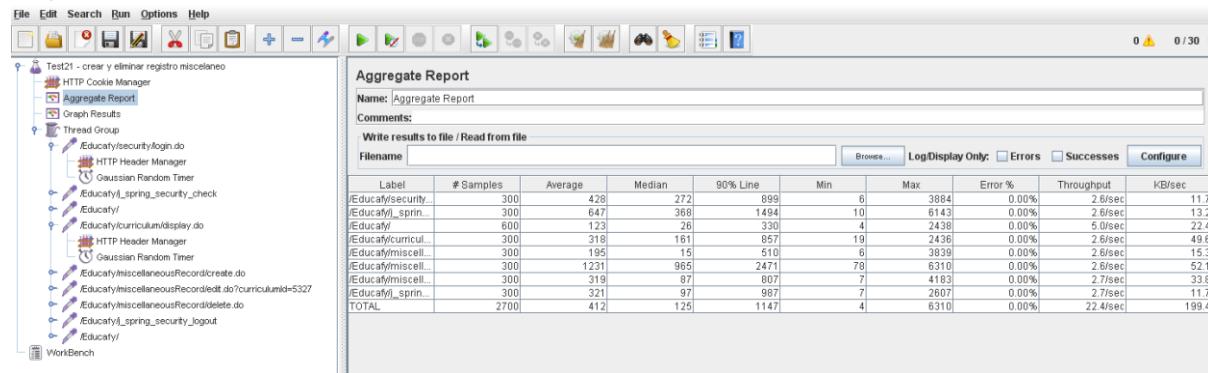
- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 30 clientes.

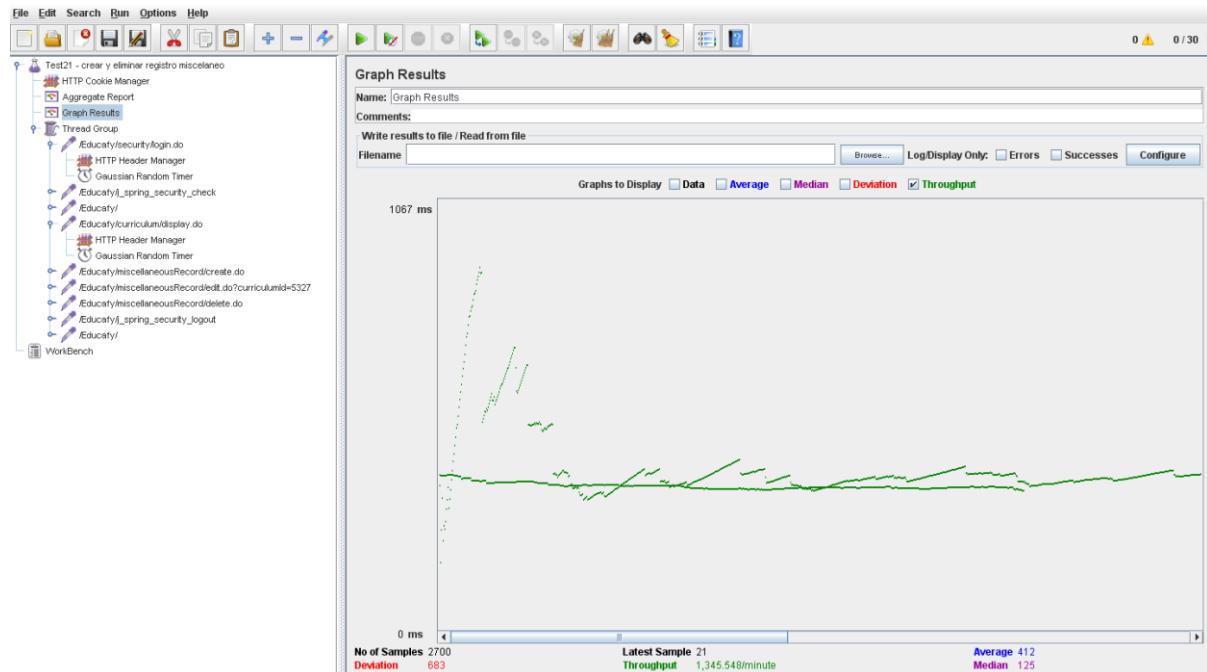
### Thread Group



### Report

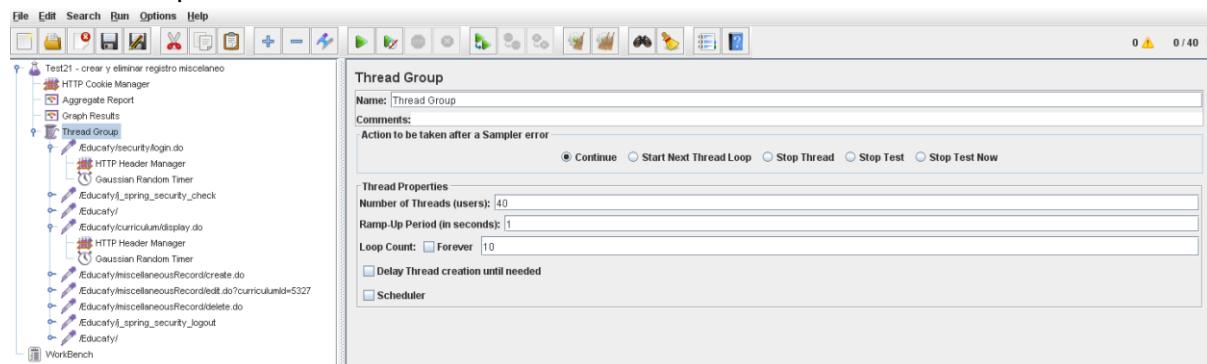


## Graph

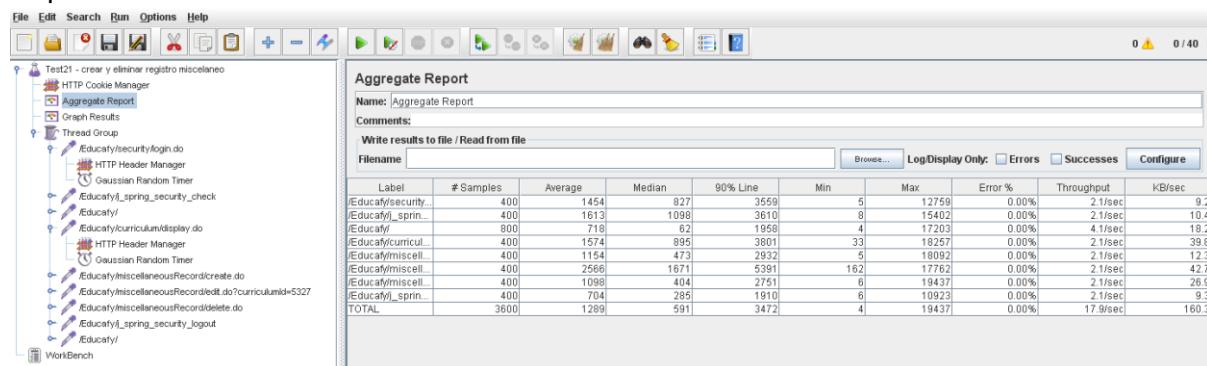


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 40 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

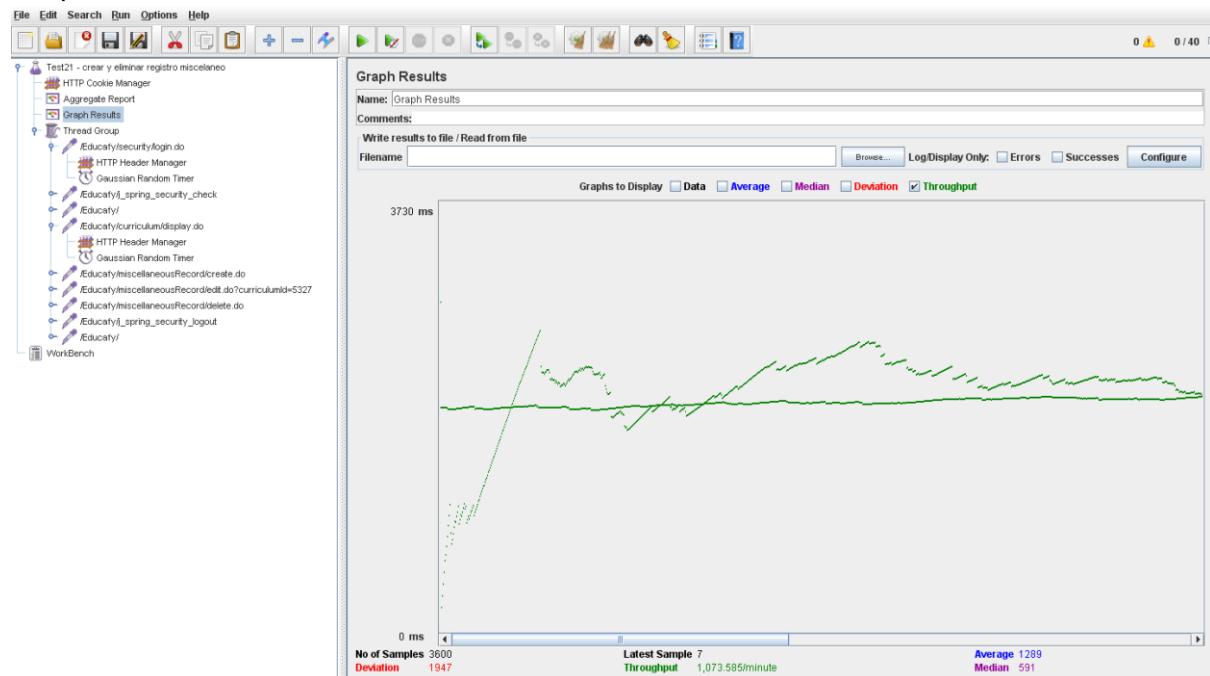
## Thread Group



## Report



## Graph



## 4.11 Editar y pasar a final un registro misceláneo

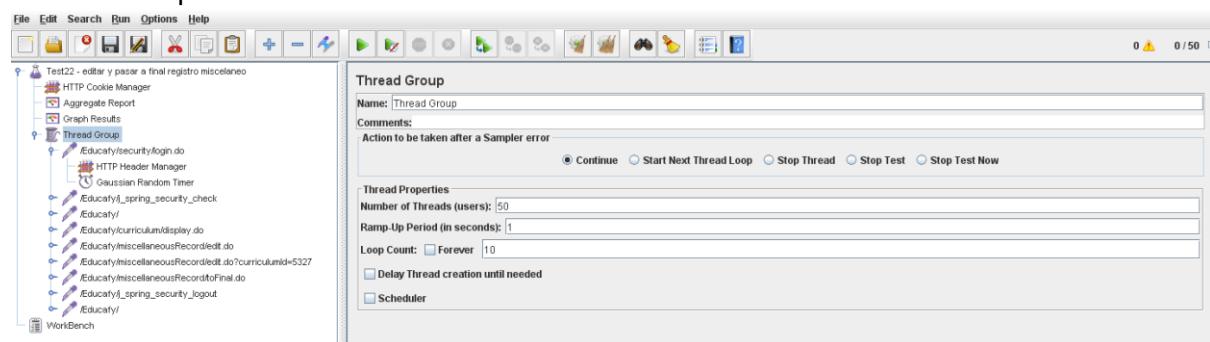
**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 50 clientes.

## Thread Group



## Report

File Edit Search Run Options Help

Test22 - editar y pasar a final registro miscelaneo

- HTTP Cookie Manager
- Aggregate Report
- Graph Results
- Thread Group
  - /Educacy/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educacy/\_spring\_security\_check
  - /Educacy/
  - /Educacy/curriculum/display.do
  - /Educacy/miscellaneousRecord/edit.do
  - /Educacy/miscellaneousRecord/edit.do?curriculumid=5327
  - /Educacy/miscellaneousRecord/final.do
  - /Educacy/\_spring\_security\_logout
  - /Educacy/
- WorkBench

**Aggregate Report**

Name: Aggregate Report

Comments:

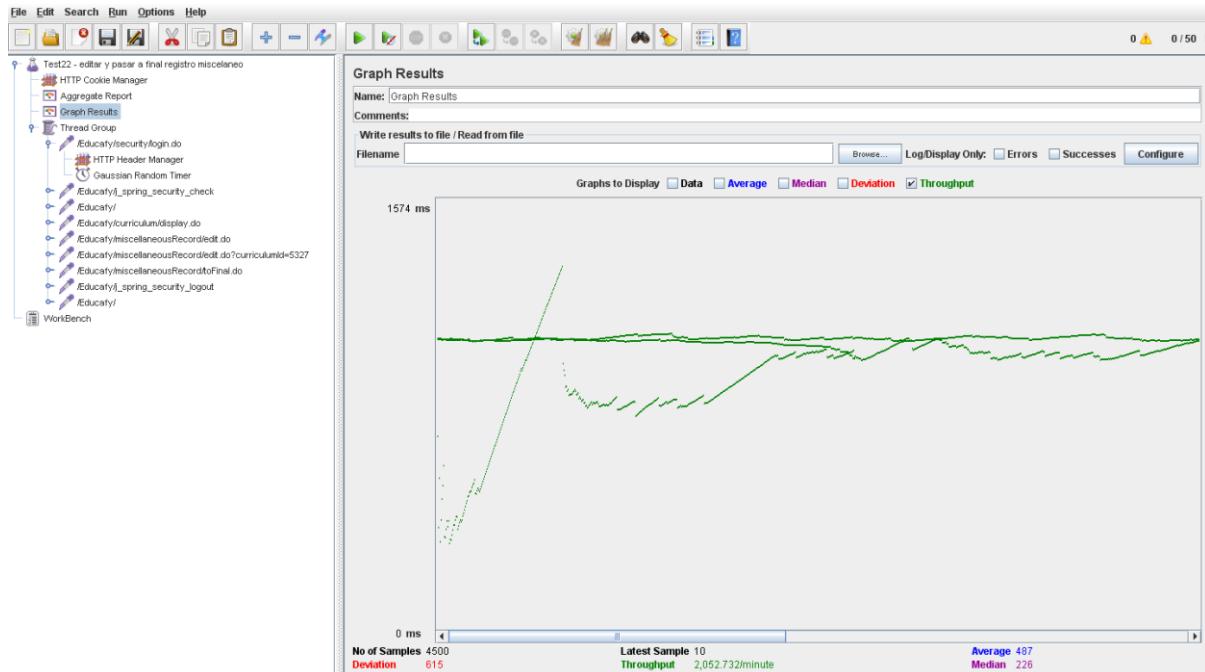
Write results to file / Read from file

Filename [ ]

Browse... Log Display Only Errors Successes Configure

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educacy/security...	500	650	412	1741	5	3269	0.00%	4.0/sec	17.8
/Educacy/_sprin...	500	803	667	1865	9	3028	0.00%	4.0/sec	20.1
/Educacy/	1000	252	169	977	4	2996	0.00%	7.5/sec	34.9
/Educacy/curricul...	500	896	622	2209	46	3441	0.00%	4.1/sec	71.7
/Educacy/miscell...	500	300	124	855	7	3425	0.00%	4.1/sec	24.2
/Educacy/miscell...	500	595	398	1487	10	2878	0.00%	4.1/sec	24.5
/Educacy/miscell...	500	351	147	839	8	3552	0.00%	4.1/sec	19.9
/Educacy/_sprin...	500	293	97	910	7	2944	0.00%	4.1/sec	17.9
TOTAL	4500	487	226	1385	4	3552	0.00%	34.2/sec	217.1

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 180 clientes, ya que hay % de error en una request cuando hace su acción indicada.

## Thread Group

File Edit Search Run Options Help

Test22 - editar y pasar a final registro miscelaneo

- HTTP Cookie Manager
- Aggregate Report
- Graph Results
- Thread Group
  - /Educacy/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educacy/\_spring\_security\_check
  - /Educacy/
  - /Educacy/curriculum/display.do
  - /Educacy/miscellaneousRecord/edit.do
  - /Educacy/miscellaneousRecord/edit.do?curriculumid=5327
  - /Educacy/miscellaneousRecord/final.do
  - /Educacy/\_spring\_security\_logout
  - /Educacy/
- WorkBench

**Thread Group**

Name: Thread Group

Comments:

Action to be taken after a Sampler error

Continue Start Next Thread Loop Stop Thread Stop Test Stop Test Now

Thread Properties

Number of Threads (users): 60

Ramp-Up Period (in seconds): 1

Loop Count: Forever 10

Delay Thread creation until needed

Scheduler

## Report

File Edit Search Run Options Help

Test22 - editar y pasar a final registro miscelaneo

HTTP Cookie Manager

Aggregate Report

Graph Results

Thread Group

- ↳ /Educacy/security/login.do
- ↳ /Educacy/\_spring\_security\_check
- ↳ /Educacy/\_spring
- ↳ /Educacy/curriculum/display.do
- ↳ /Educacy/miscellaneousRecordedit.do?curriculumId=5327
- ↳ /Educacy/miscellaneousRecordeditFinal.do
- ↳ /Educacy/\_spring\_security\_logout
- ↳ /Educacy/\_spring

WorkBench

Aggregate Report

Name: Aggregate Report

Comments:

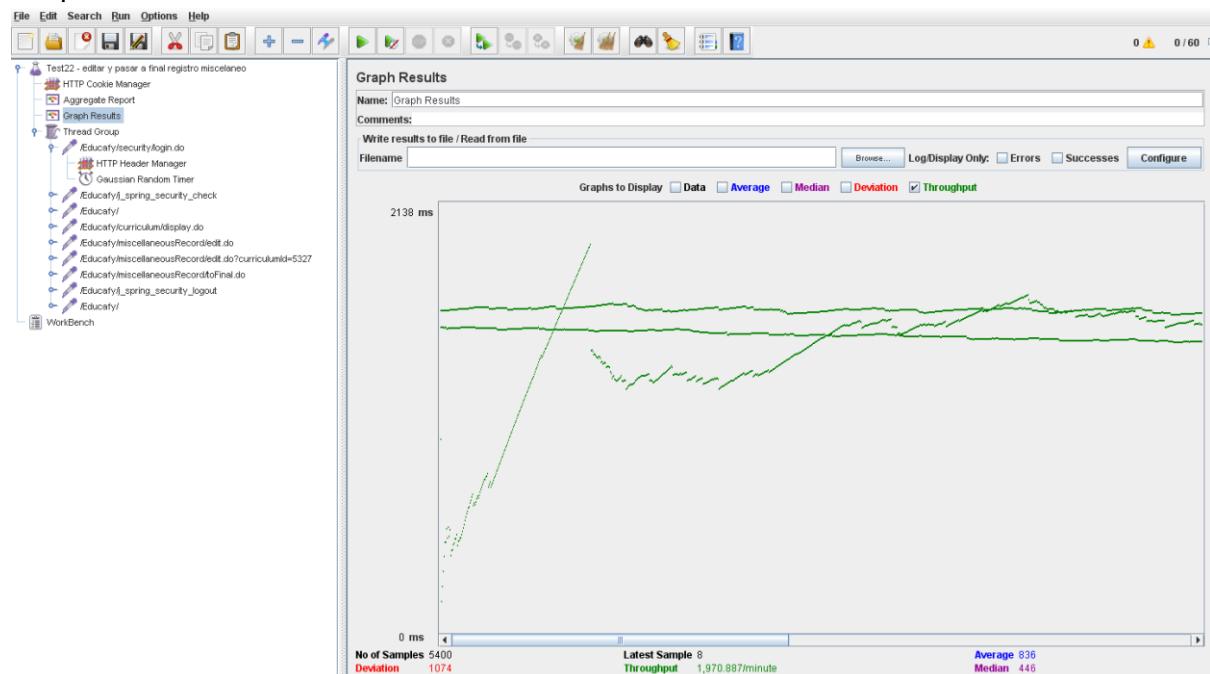
Write results to file / Read from file

Filename:

Browse... Log Display Only  Errors  Successes  Configure

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educacy/security...	600	1149	675	2691	6	9743	0.00%	3.8/sec	17.0
/Educacy/_sprin...	600	1173	903	2518	10	9533	0.00%	3.8/sec	19.2
/Educacy/_sprin...	1200	593	422	1573	4	7515	0.00%	7.5/sec	31.1
/Educacy/curricul...	600	1357	905	3166	59	10671	0.00%	3.8/sec	68.3
/Educacy/miscell...	600	588	246	1736	8	5287	0.00%	3.8/sec	23.2
/Educacy/miscell...	600	1006	614	2562	10	7608	0.00%	3.8/sec	23.4
/Educacy/miscell...	600	604	259	1771	8	5462	0.00%	3.8/sec	19.0
/Educacy/_sprin...	600	485	201	1228	7	4548	0.00%	3.8/sec	17.1
TOTAL	5400	836	446	2301	4	10671	0.00%	32.8/sec	208.4

## Graph



## 4.12 Listar, ver y aceptar una reserva, sugerir y editar tramos horarios

**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 50 clientes.

### Thread Group

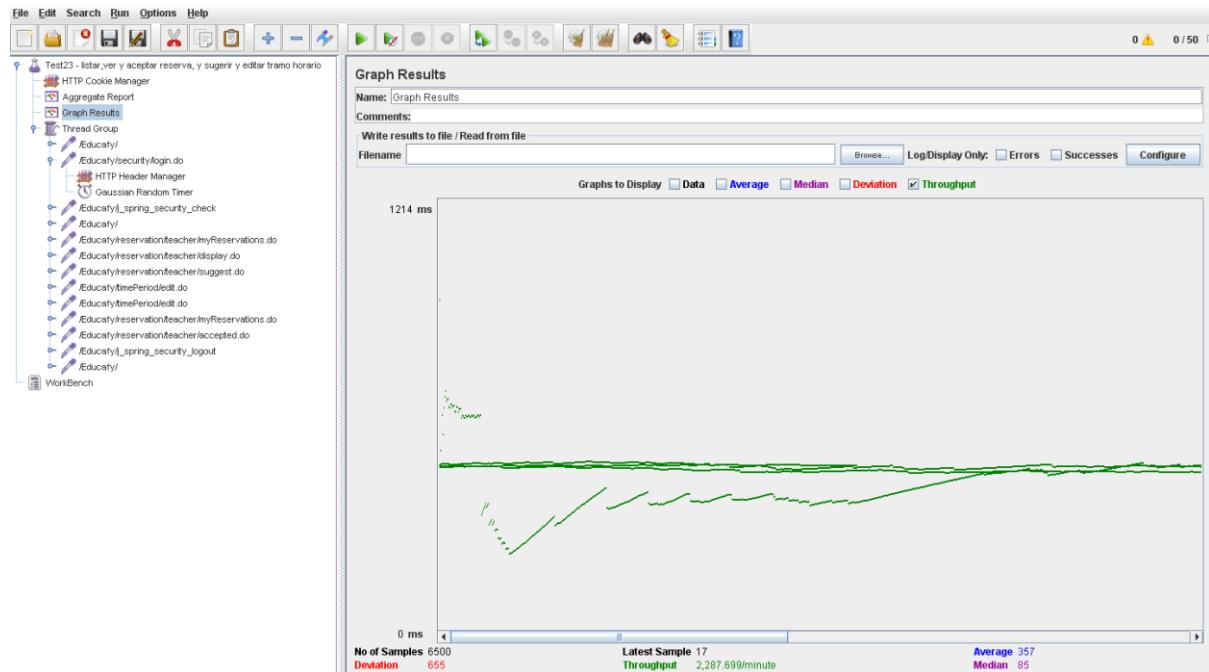
The screenshot shows the JMeter Thread Group configuration. The 'Name' field is set to 'Thread Group'. Under 'Action to be taken after a Sampler error', 'Continue' is selected. In the 'Thread Properties' section, 'Number of Threads (users):' is set to 50, 'Ramp-Up Period (in seconds):' is 1, and 'Loop Count:' is set to 1. There are also checkboxes for 'Delay Thread creation until needed' and 'Scheduler'.

### Report

The screenshot shows the JMeter Aggregate Report. The 'Label' column lists various requests, and the '# Samples' column shows the number of samples for each. The 'Average' column shows the average response time, 'Median' shows the median, '90% Line' shows the 90th percentile, 'Min' shows the minimum, 'Max' shows the maximum, 'Error %' shows the error percentage, 'Throughput' shows the throughput, and 'K/sec' shows the throughput in kilobytes per second. The total number of samples is 6500, and the total throughput is 38.1/sec.

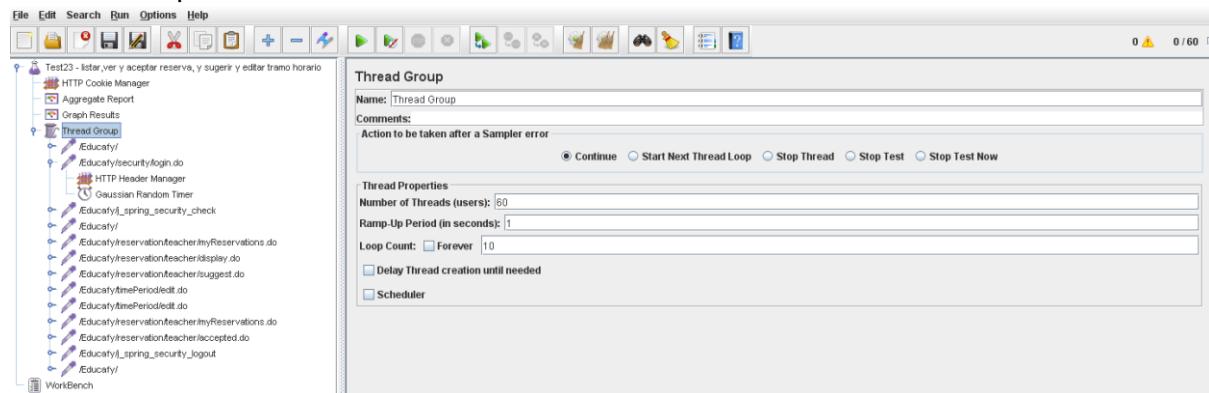
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	K/sec
/Educayf/	1500	188	32	601	4	5018	0.00%	8.8/sec	39.6
/Educayf_security/login.do	500	773	446	2121	4	3326	0.00%	3.1/sec	13.7
/Educayf_spring_security_check	500	782	508	1970	8	4307	0.00%	3.1/sec	15.7
/Educayf/reservation/teacher/myReservations.do	1000	423	158	1105	10	5999	0.00%	6.2/sec	37.9
/Educayf/reservation/teacher/display.do	500	110	22	225	6	2400	0.00%	3.2/sec	41.1
/Educayf/reservation/teacher/suggest.do	500	155	23	424	6	2554	0.00%	3.2/sec	41.1
/Educayf/timePeriod/edit.do	1000	375	138	891	6	7113	0.00%	6.4/sec	77.0
/Educayf/reservation/teacher/accepted.do	500	352	113	998	6	4904	0.00%	3.2/sec	41.6
/Educayf_spring_security_logout	500	302	87	980	5	6667	0.00%	3.3/sec	14.2
TOTAL:	6500	357	85	1015	4	7113	0.00%	38.1/sec	298.5

## Graph

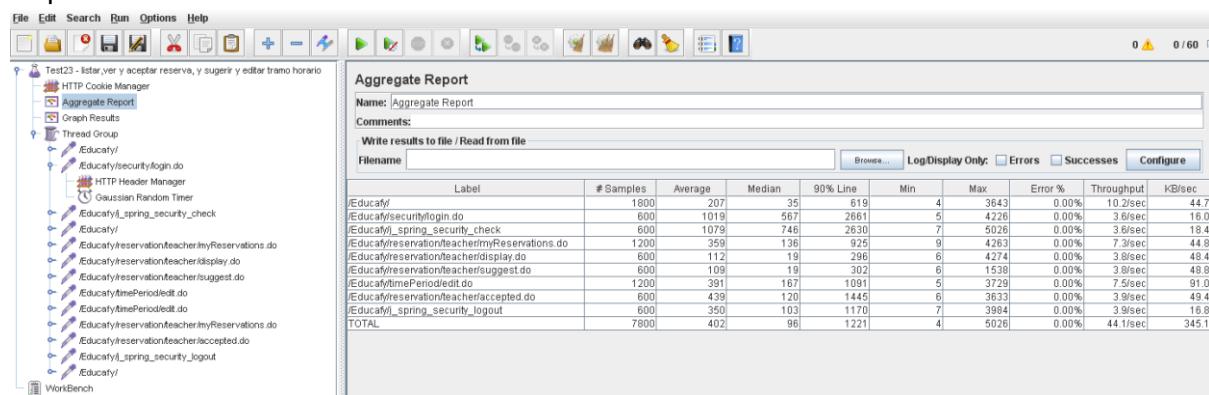


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 60 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

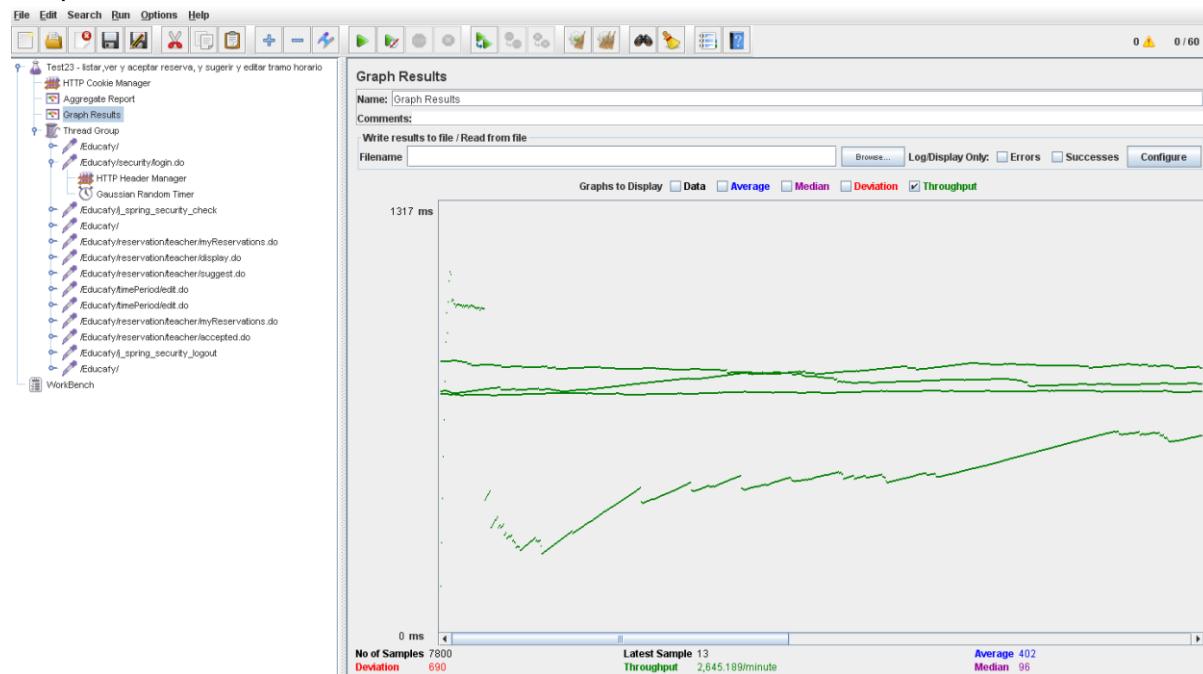
## Thread Group



## Report



## Graph



## 4.13 Eliminar una reserva

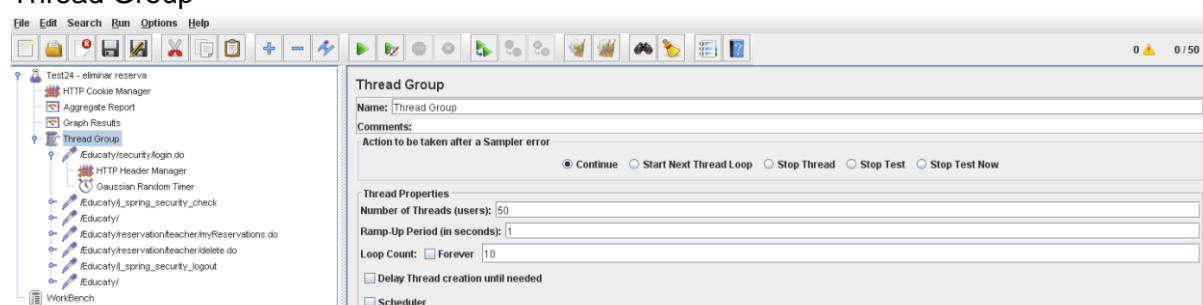
**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

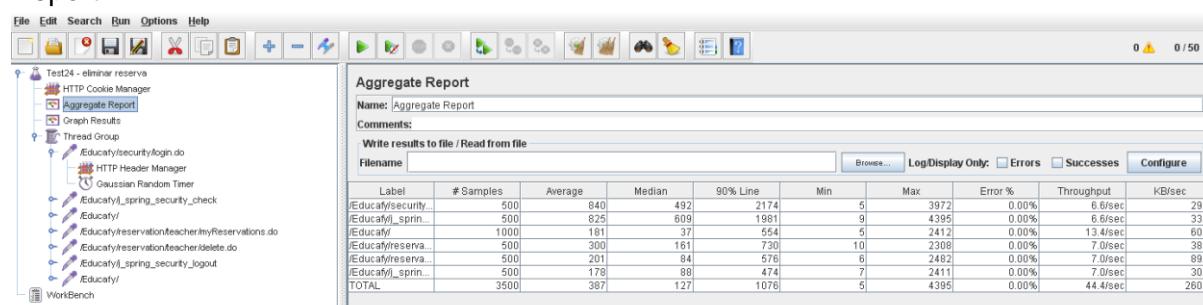
- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 50 clientes.

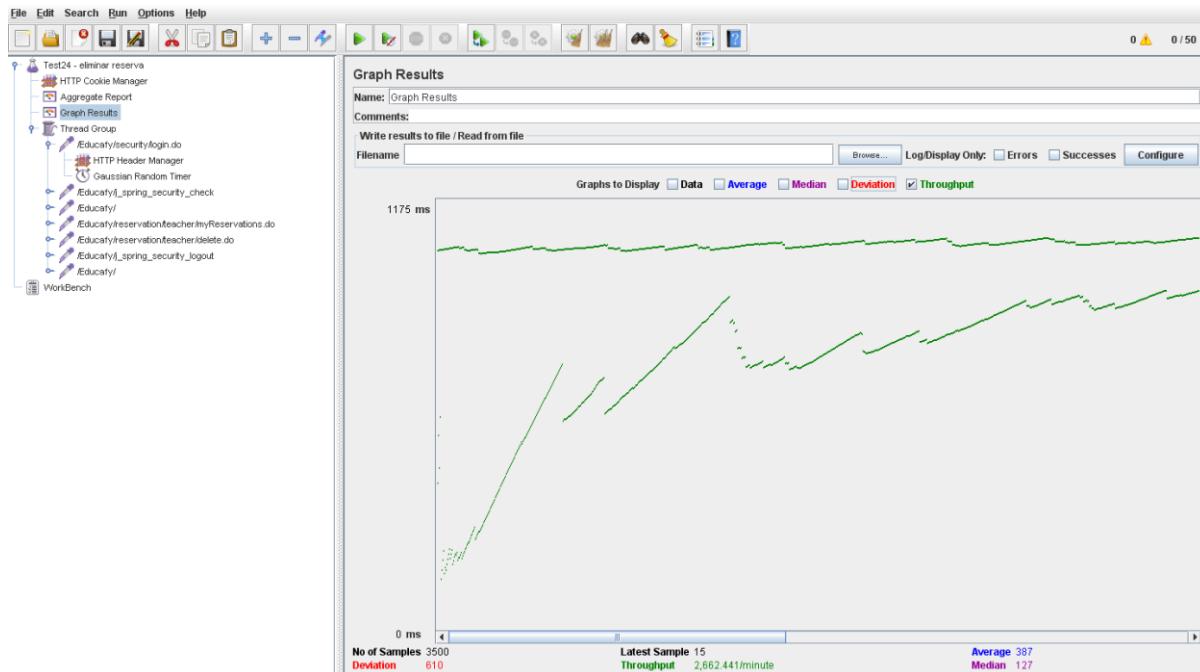
## Thread Group



## Report

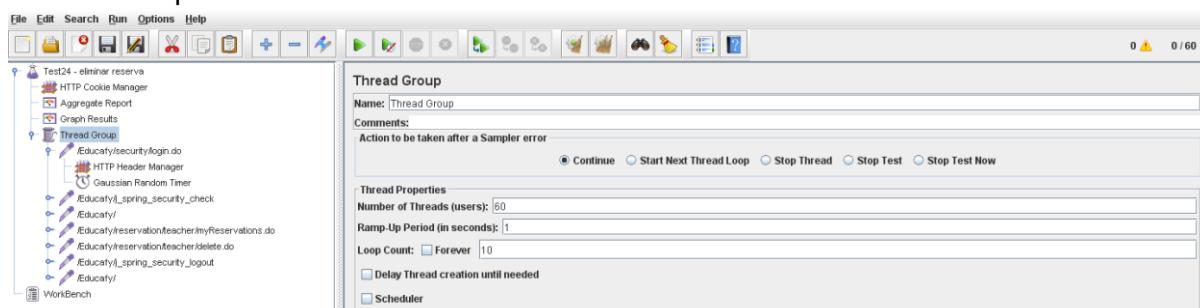


## Graph

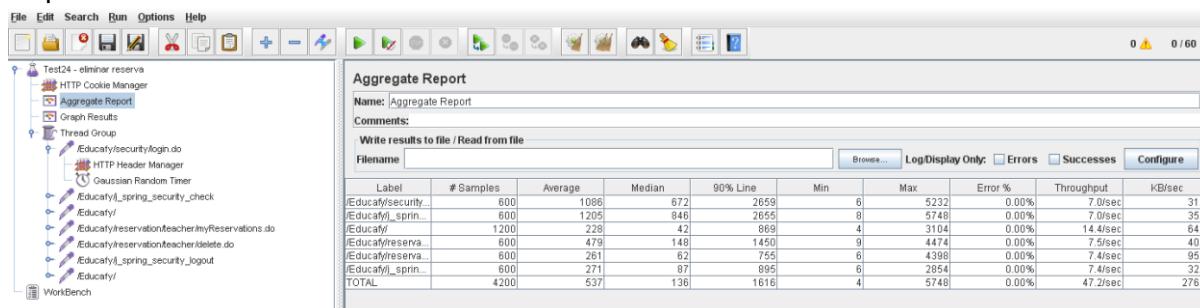


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 60 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

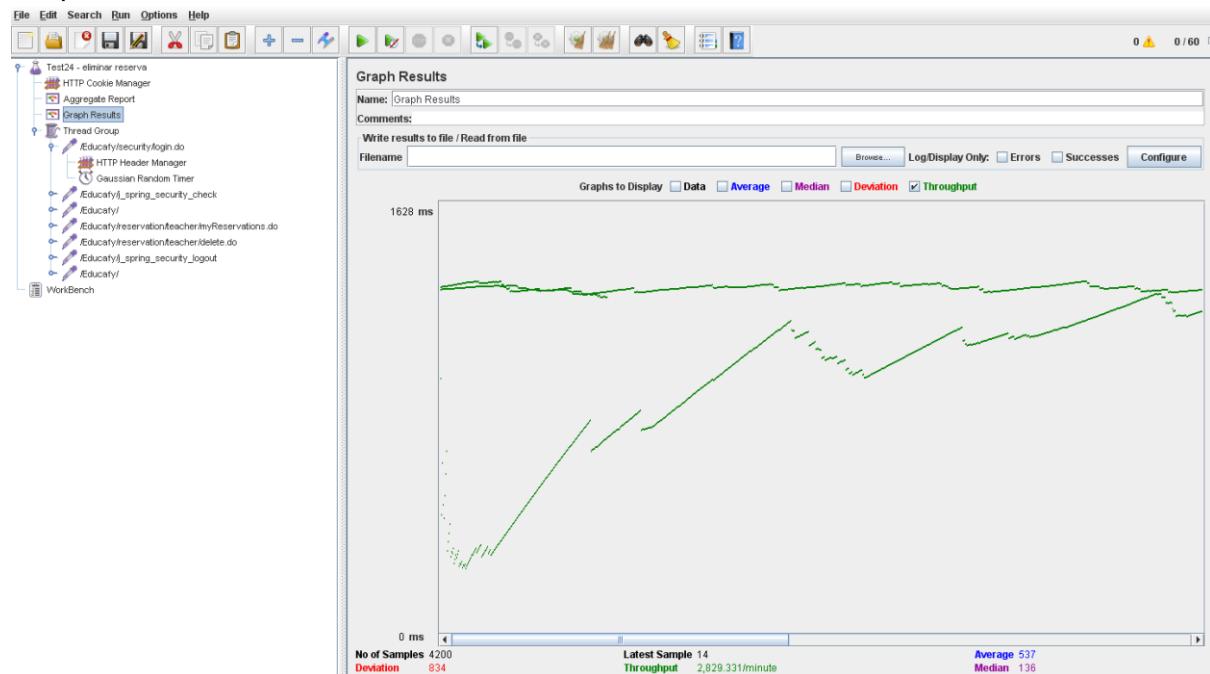
## Thread Group



## Report



## Graph



## 4.14 Rechazar una reserva

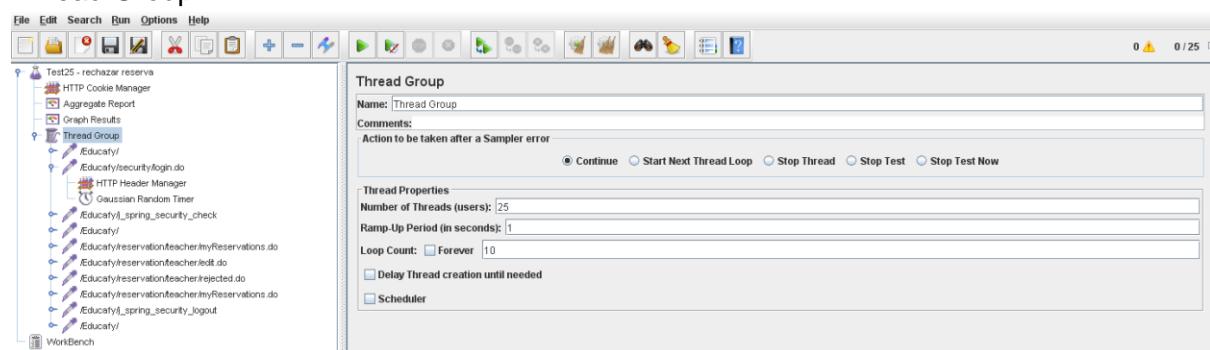
**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 25 clientes.

## Thread Group



## Report

File Edit Search Run Options Help

Test25 - rechazar reserva

- HTTP Cookie Manager
- Aggregate Report
- Graph Results
- Thread Group
  - /Educayf/
  - /Educayf/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf/\_spring\_security\_check
  - /Educayf/
  - /Educayf/reservation/teacher/myReservations.do
  - /Educayf/reservation/teacher/edit.do
  - /Educayf/reservation/teacher/rejected.do
  - /Educayf/reservation/teacher/myReservations.do
  - /Educayf/\_spring\_security\_logout
  - /Educayf/
- WorkBench

**Aggregate Report**

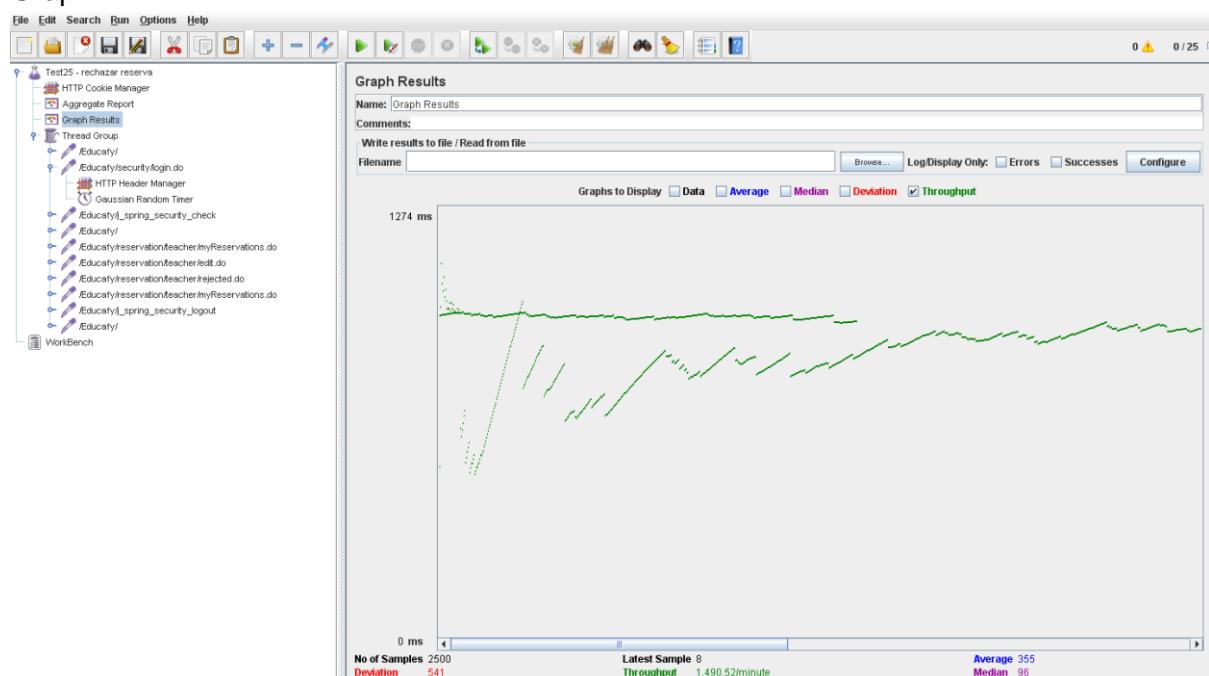
Name: Aggregate Report

Comments:

Write results to file / Read from file

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf/	750	186	34	557	4	2030	0.00%	7.5/sec	32.7
/Educayf/_spring_security...	250	487	383	1226	6	2535	0.00%	2.7/sec	11.9
/Educayf/	250	621	391	1700	8	2516	0.00%	2.7/sec	13.7
/Educayf/reserva...	600	207	41	624	10	2535	0.00%	5.2/sec	30.6
/Educayf/reserva...	250	127	44	326	10	1864	0.00%	2.8/sec	15.9
/Educayf/reserva...	250	1006	735	2276	14	3918	0.00%	2.7/sec	16.0
/Educayf/_sprin...	250	327	127	1035	8	2293	0.00%	2.7/sec	11.9
TOTAL	2500	355	96	1079	4	3918	0.00%	24.8/sec	124.8

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 30 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group

File Edit Search Run Options Help

Test25 - rechazar reserva

- HTTP Cookie Manager
- Aggregate Report
- Graph Results
- Thread Group
  - /Educayf/
  - /Educayf/\_spring\_security\_login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf/\_spring\_security\_check
  - /Educayf/
  - /Educayf/reservation/teacher/myReservations.do
  - /Educayf/reservation/teacher/edit.do
  - /Educayf/reservation/teacher/rejected.do
  - /Educayf/reservation/teacher/myReservations.do
  - /Educayf/\_spring\_security\_logout
  - /Educayf/
- WorkBench

**Thread Group**

Name: Thread Group

Comments:

Action to be taken after a Sampler error: Continue (radio button selected)

Thread Properties

Number of Threads (users): 30

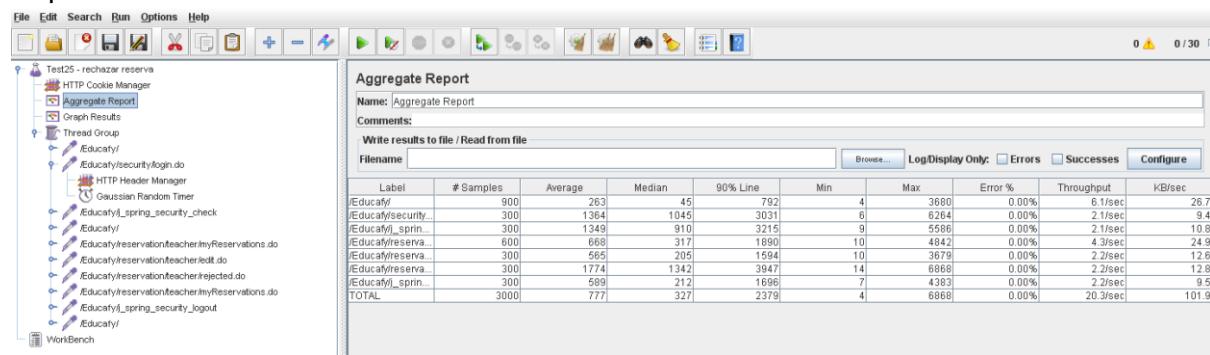
Ramp-Up Period (in seconds): 1

Loop Count: Forever (checkbox selected)

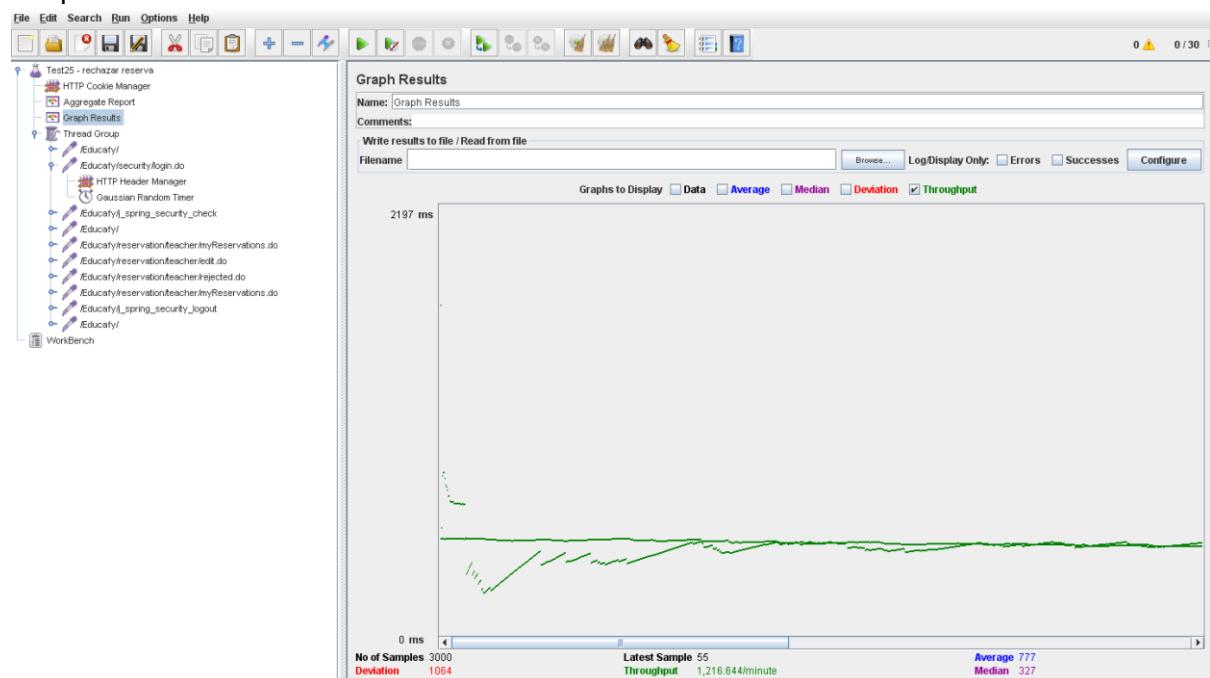
Delay Thread creation until needed (checkbox)

Scheduler (checkbox)

## Report



## Graph



## 4.14 Crear, ver, editar y eliminar un examen

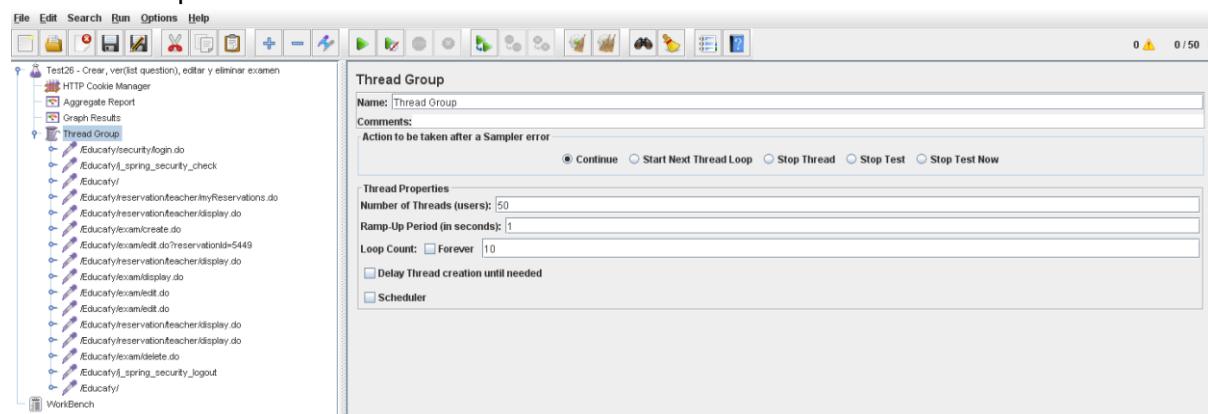
**Descripción del ordenador que ha realizado el caso de uso:**

## MacBook Pro:

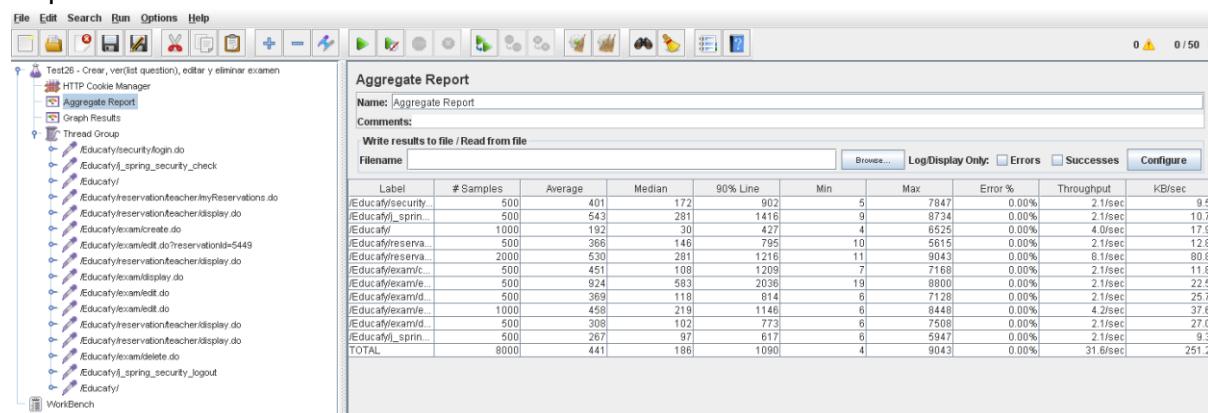
- Procesador: 2,3GHz Intel Core i5
  - Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 50 clientes.

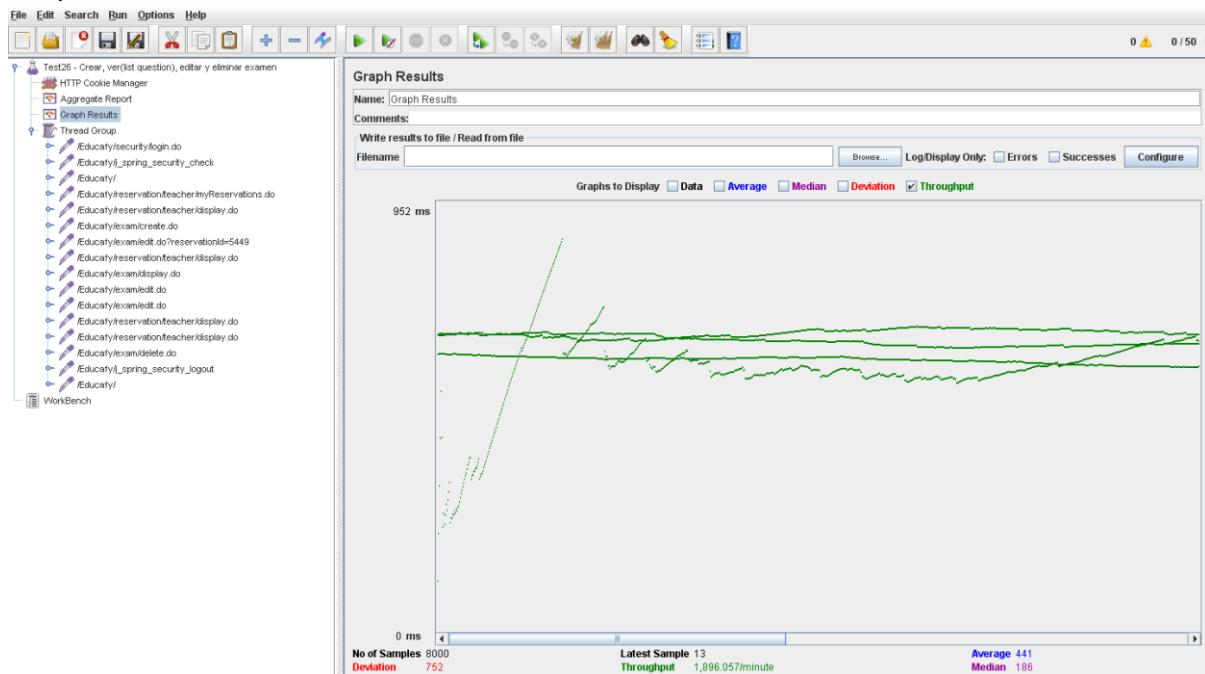
## Thread Group



## Report

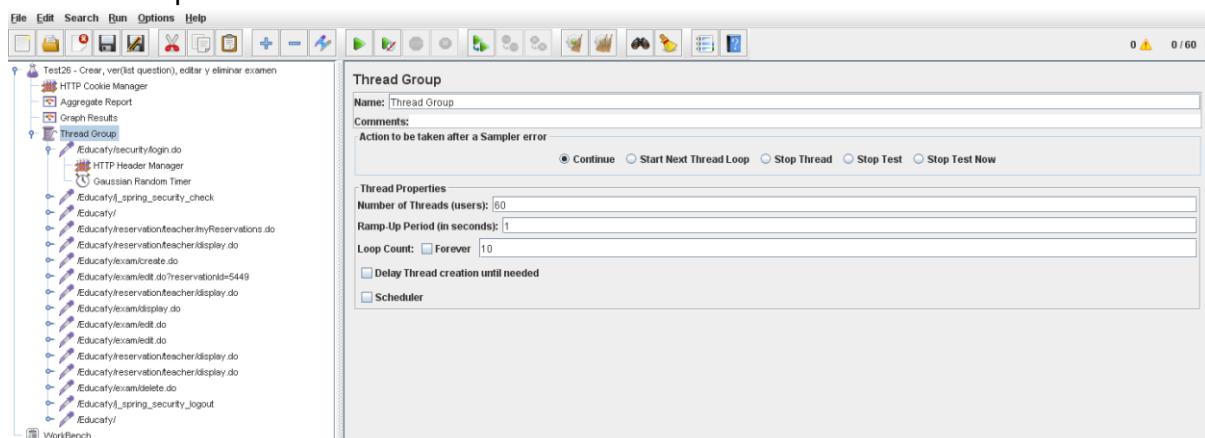


## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 60 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group



## Report

Test26 - Crear, ver(list questions), editar y eliminar examen

HTTP Cookie Manager

Aggregate Report

Name: Aggregate Report

Comments:

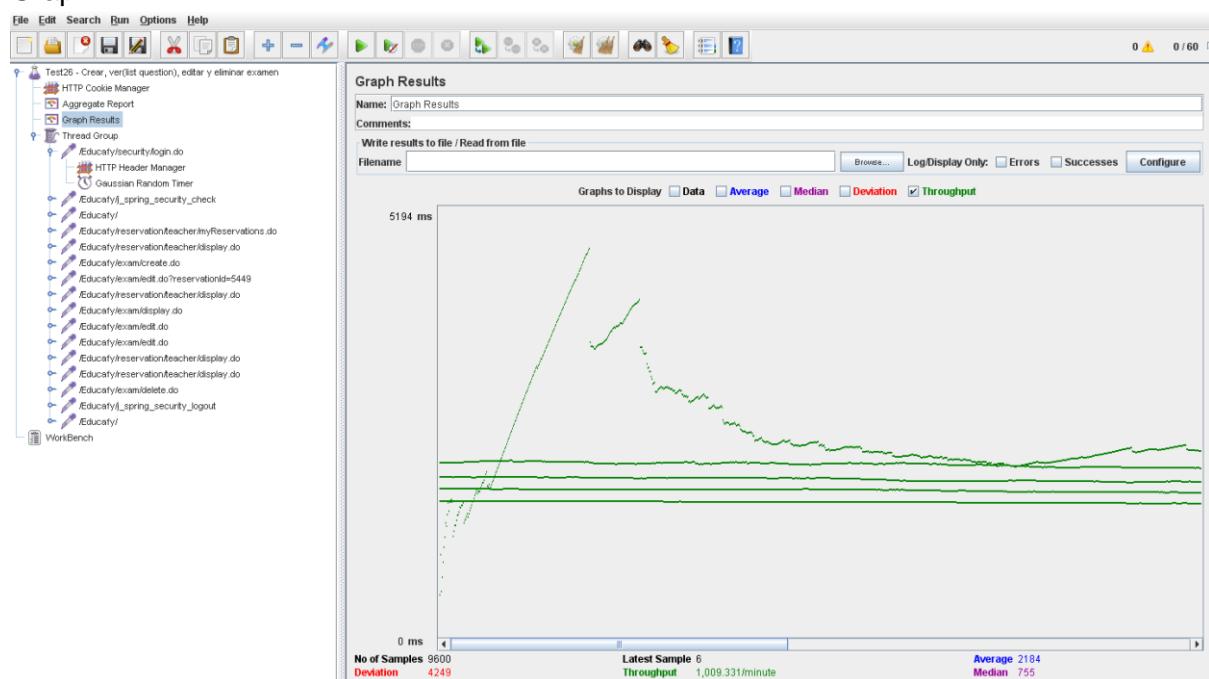
Write results to file / Read from file

Filename:

Log Display Only  Errors  Successes  Configure

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf/security...	600	1870	598	4030	6	35797	0.00%	1.1/sec	4.8
/Educayf_sprin...	600	3401	1794	9185	9	35316	0.00%	1.1/sec	5.5
/Educayf	1200	2149	453	6569	5	35045	0.00%	2.1/sec	5.9
/Educayf/reservation/teacher/myReservations	600	2520	517	7286	12	46002	0.00%	1.1/sec	6.5
/Educayf/reservation/teacher/display	2400	2405	931	6429	79	58189	0.00%	4.3/sec	42.5
/Educayf/exam/cre...	600	1732	445	4573	7	26917	0.00%	1.1/sec	6.0
/Educayf/exam/cre...	600	1620	470	3644	7	35825	0.00%	1.1/sec	13.9
/Educayf/exam/disp...	1200	1957	640	4579	7	34676	0.00%	2.2/sec	19.9
/Educayf/exam/cre...	600	1895	442	5075	7	27795	0.00%	1.1/sec	13.9
/Educayf/exam/disp...	600	1362	495	3072	7	20519	0.00%	1.1/sec	4.8
TOTAL	9600	2184	755	5418	5	56189	0.00%	16.8/sec	135.2

## Graph



## 4.14 Crear, ver y editar pregunta

**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 40 clientes.

### Thread Group

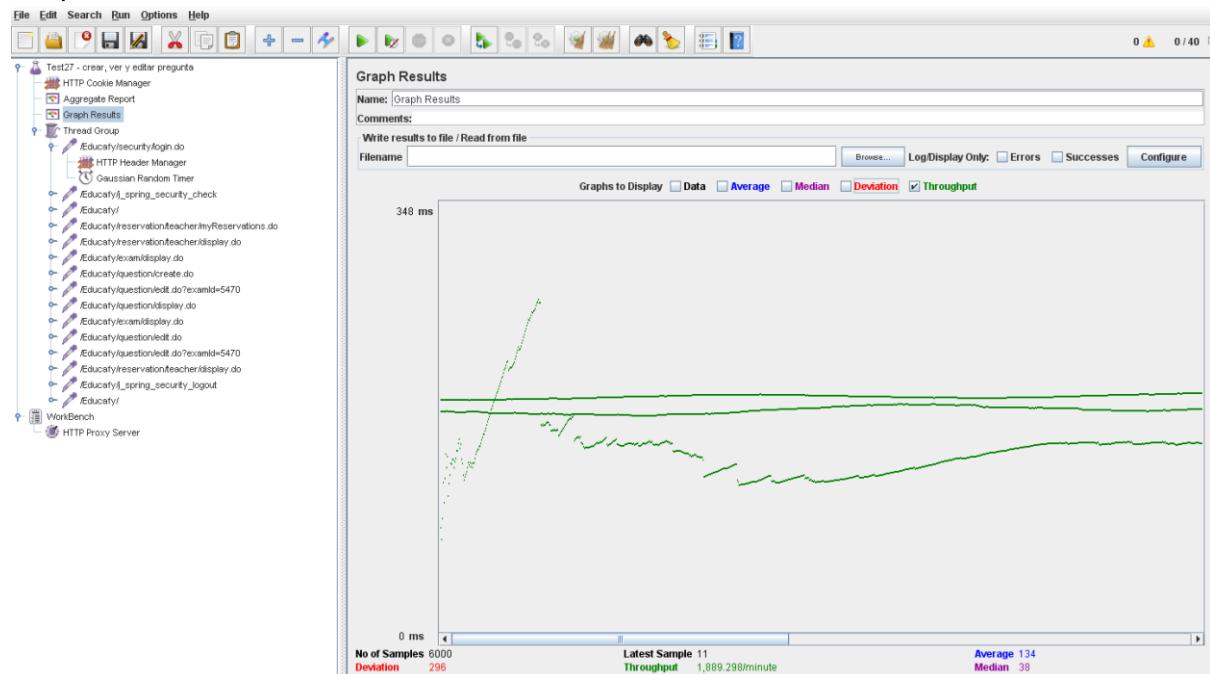
The screenshot shows the JMeter interface with the 'Thread Group' configuration open. The 'Number of Threads (users)' is set to 40, and the 'Ramp-Up Period (in seconds)' is set to 1. The 'Loop Count' is set to 'Forever'. There are several checkmarks for options like 'Delay Thread creation until needed' and 'Scheduler'.

### Report

The screenshot shows the JMeter interface with the 'Aggregate Report' configuration open. The report displays performance metrics for 6000 samples. Key values include Average response time of 134 ms, Median of 38 ms, and a throughput of 31.5/sec. The table includes columns for Label, # Samples, Average, Median, 90% Line, Min, Max, Error %, Throughput, and KB/sec.

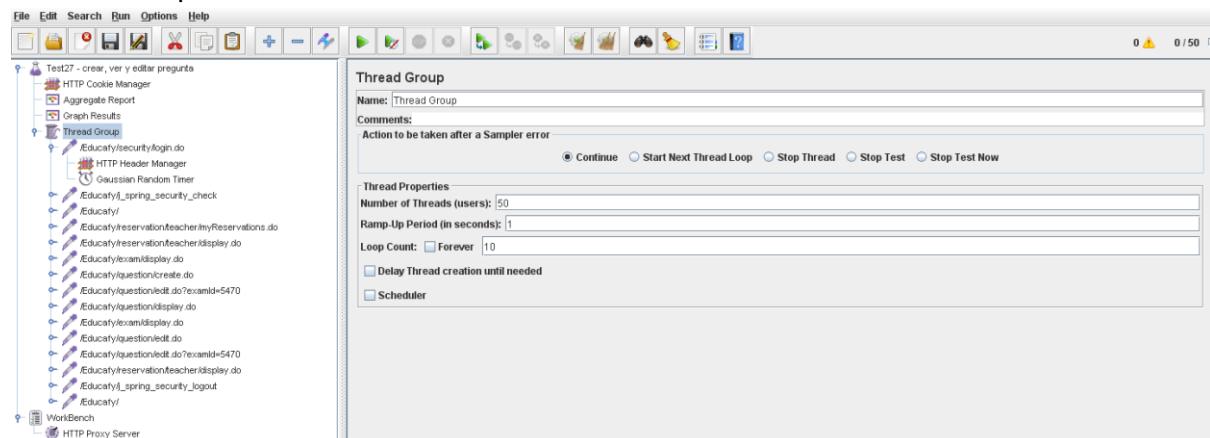
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf_security...	400	107	38	260	6	1.661	0.00%	2.3/sec	10.2
/Educayf_sprin...	400	201	58	487	9	1.899	0.00%	2.3/sec	11.6
/Educayf...	800	48	14	98	5	1.393	0.00%	4.2/sec	18.9
/Educayfreserva...	400	165	41	401	13	1.474	0.00%	2.3/sec	13.9
/Educayfexamt...	800	90	38	204	11	1.598	0.00%	4.2/sec	30.0
/Educayfquestio...	800	138	46	253	13	1.789	0.00%	4.5/sec	49.7
/Educayfquestio...	400	86	23	212	8	4.503	0.00%	2.3/sec	12.4
/Educayfquestio...	900	292	163	624	18	4.486	0.00%	4.5/sec	89.2
/Educayfquestio...	400	198	23	570	7	2.642	0.00%	2.3/sec	11.7
/Educayfquestio...	400	45	21	117	8	371	0.00%	2.4/sec	12.6
/Educayf_sprin...	400	76	26	182	7	978	0.00%	2.4/sec	10.4
TOTAL	6000	134	38	313	5	4503	0.00%	31.5/sec	243.7

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 50 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group



## Report

File Edit Search Run Options Help

0 0 / 50

Test27 - crear, ver y editar preguntas

- HTTP Cookie Manager
- Aggregate Report
- Graph Results
- Thread Group
  - HTTP Header Manager
  - Gaussian Random Timer
  - Educaty\_login
  - Educaty\_reservationTeacherMyReservations
  - Educaty\_reservationTeacherIdDisplay
  - Educaty\_examIdDisplay
  - Educaty\_questionCreate
  - Educaty\_questionEdit?examid=5470
  - Educaty\_examIdDisplay
  - Educaty\_questionDisplay
  - Educaty\_examIdDisplay
  - Educaty\_questionEdit
  - Educaty\_reservationTeacherDisplay
  - Educaty\_login\_logout
  - Educaty\_login\_logout?examid=5470
  - Educaty\_reservationTeacherDisplay
  - Educaty\_login\_logout
  - Educaty\_login\_logout
- WorkBench
- HTTP Proxy Server

### Aggregate Report

Name: Aggregate Report

Comments:

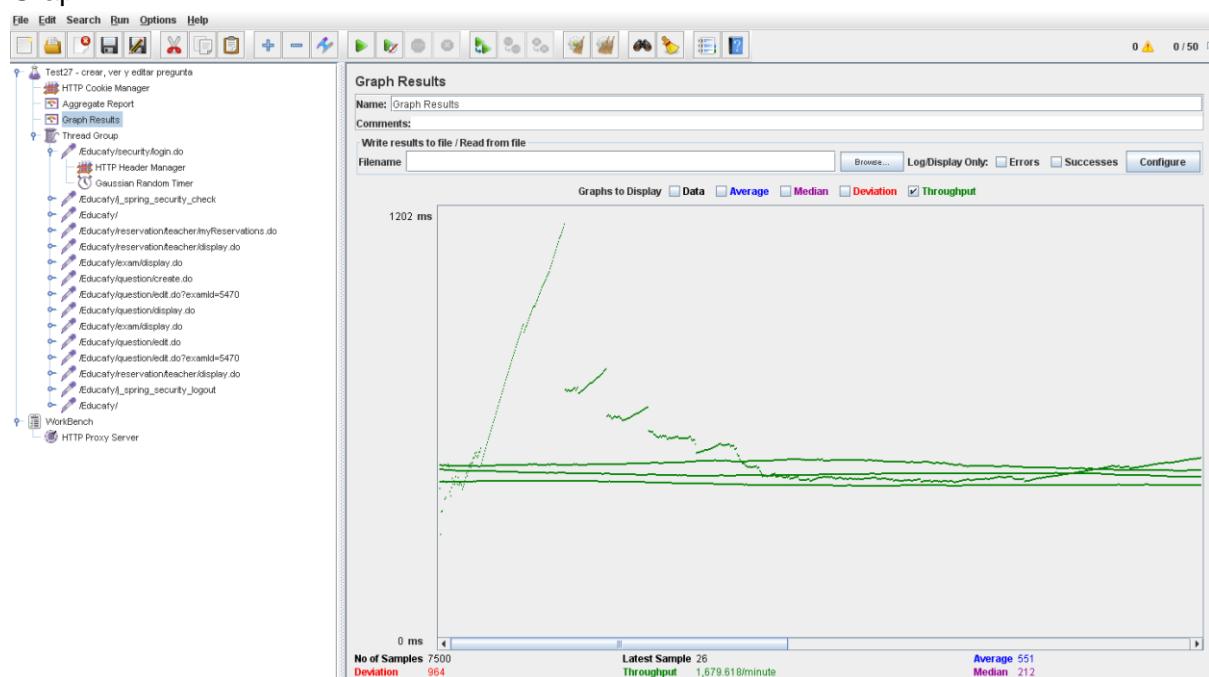
Write results to file / Read from file

Filename:

Log Display Only:  Errors  Successes  Configure

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educaty/security/login.do	400	436	208	1040	6	4677	0.00%	2.0/sec	8.8
/Educaty/_spring_security_check	400	554	321	1366	8	5600	0.00%	2.0/sec	8.9
/Educaty/reservationTeacherMyReservations	1000	263	41	459	4	7399	0.00%	3.8/sec	18.3
/Educaty/reservationTeacherIdDisplay	500	359	112	759	12	11059	0.00%	2.0/sec	11.9
/Educaty/examIdDisplay	1000	359	145	820	11	10409	0.00%	3.8/sec	26.3
/Educaty/questionCreate	500	482	101	1406	7	11732	0.00%	2.0/sec	10.6
/Educaty/questionEdit?examid=5470	1000	1190	802	2739	17	9657	0.00%	3.9/sec	75.4
/Educaty/questionDisplay	500	592	234	1244	7	11031	0.00%	2.0/sec	9.9
/Educaty/questionEdit	500	490	138	1373	8	6829	0.00%	2.0/sec	10.6
/Educaty/_spring_security_logout	500	335	97	752	6	5725	0.00%	2.0/sec	8.7
TOTAL	7500	551	212	1389	4	12064	0.00%	2.0/sec	215.9

## Graph



#### 4.14 Eliminar pregunta y pasar examen a in progress

**Descripción del ordenador que ha realizado el caso de uso:**

## MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
  - Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 130 clientes.

## Thread Group

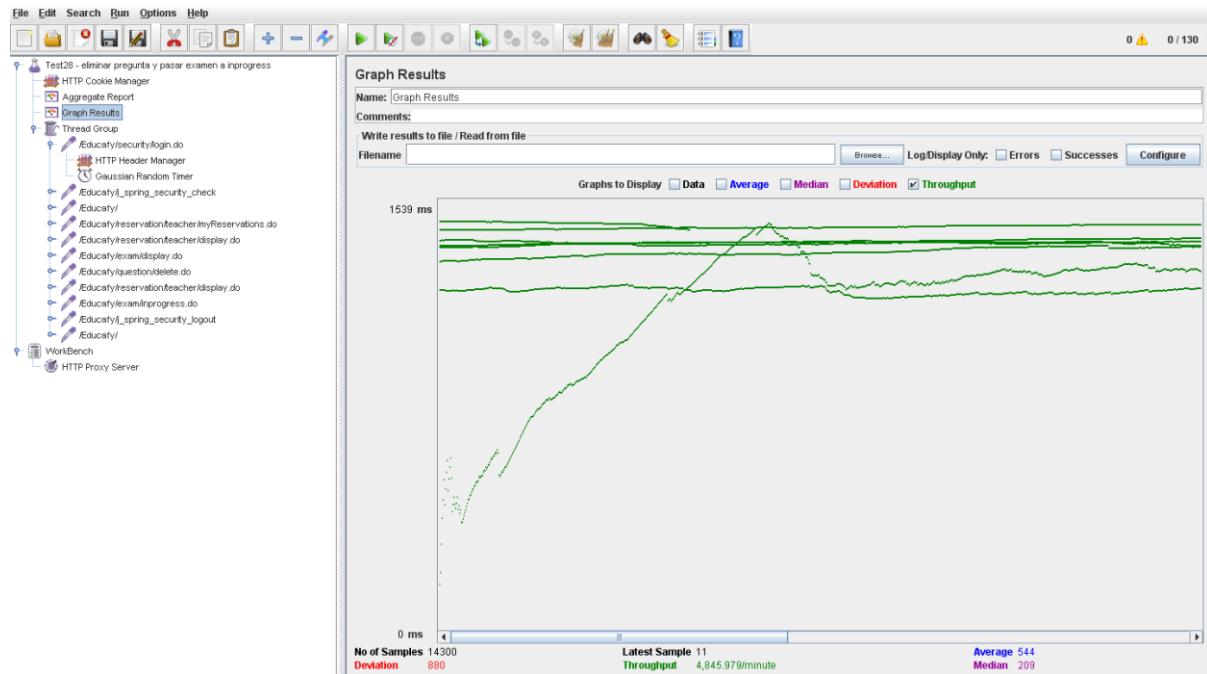
The screenshot shows the JMeter Test Plan Editor interface. On the left, the tree view displays a test plan named 'Test28 - eliminar pregunta y pasar examen a inprogress'. It includes sections for 'HTTP Cookie Manager', 'Aggregate Report', 'Graph Results', and a 'Thread Group' section which is expanded to show various samplers like 'HTTP Request', 'HTTP Header Manager', and timers like 'Gaussian Random Timer'. The right panel is titled 'Thread Group' and contains configuration for the current thread group. The 'Name' field is set to 'Thread Group'. Under 'Action to be taken after a Sampler error', the radio button for 'Continue' is selected. In the 'Thread Properties' section, 'Number of Threads (users)' is set to 130, 'Ramp-Up Period (in seconds)' is set to 1, and 'Loop Count' is set to 'Forever' with a value of 10. There are also checkboxes for 'Delay Thread creation until needed' and 'Scheduler'.

## Report

The screenshot shows the JMeter Aggregate Report results for the 'Test28 - eliminar preguntas y pasar examen a Inprogress' test plan. The report includes sections for Name, Comments, and Write results to file / Read from file. Below is a detailed table of the results:

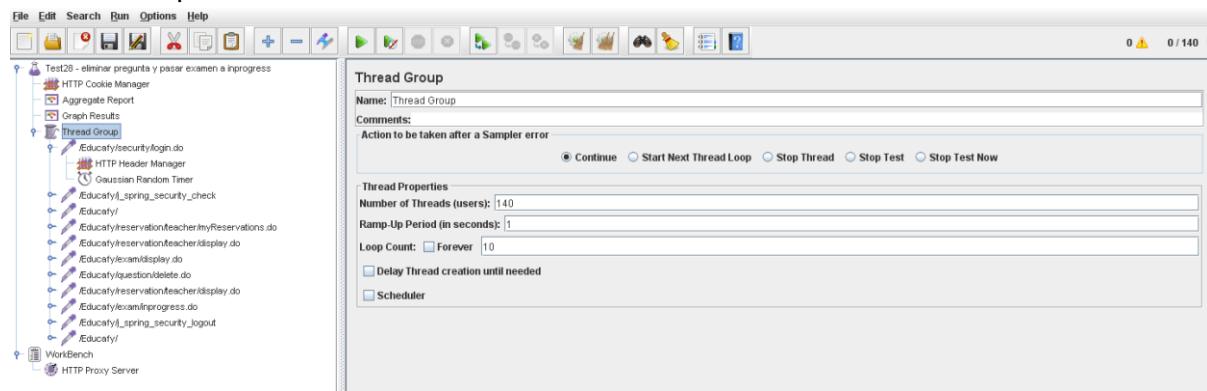
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
educafy/security	1300	724	303	2033	6	9025	0.00%	7.7/sec	34.8
educafy/sprin...	1300	837	490	2091	8	9707	0.00%	7.8/sec	39.1
educafy/Gaussian...	2600	474	172	1224	4	7847	0.00%	14.9/sec	66.4
educafy/_spring...	1300	492	194	1375	10	5690	0.00%	7.9/sec	47.2
educafy/reserva...	2600	532	215	1452	9	7803	0.00%	15.4/sec	136.2
educafy/exam...	1300	387	112	1120	7	5890	0.00%	7.9/sec	43.3
educafy/question...	1300	428	148	1105	5	8651	0.00%	7.9/sec	101.0
educafy/reservationteacherdisplay...	1300	668	257	1865	13	8610	0.00%	7.9/sec	70.8
educafy/examInProgress...	1300	432	184	1182	7	7473	0.00%	7.9/sec	34.8
educafy/_spring...	1300	544	209	1490	4	9707	0.00%	80.8/sec	541.4
TOTAL	14300	544	209	1490	4	9707	0.00%		

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 140 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

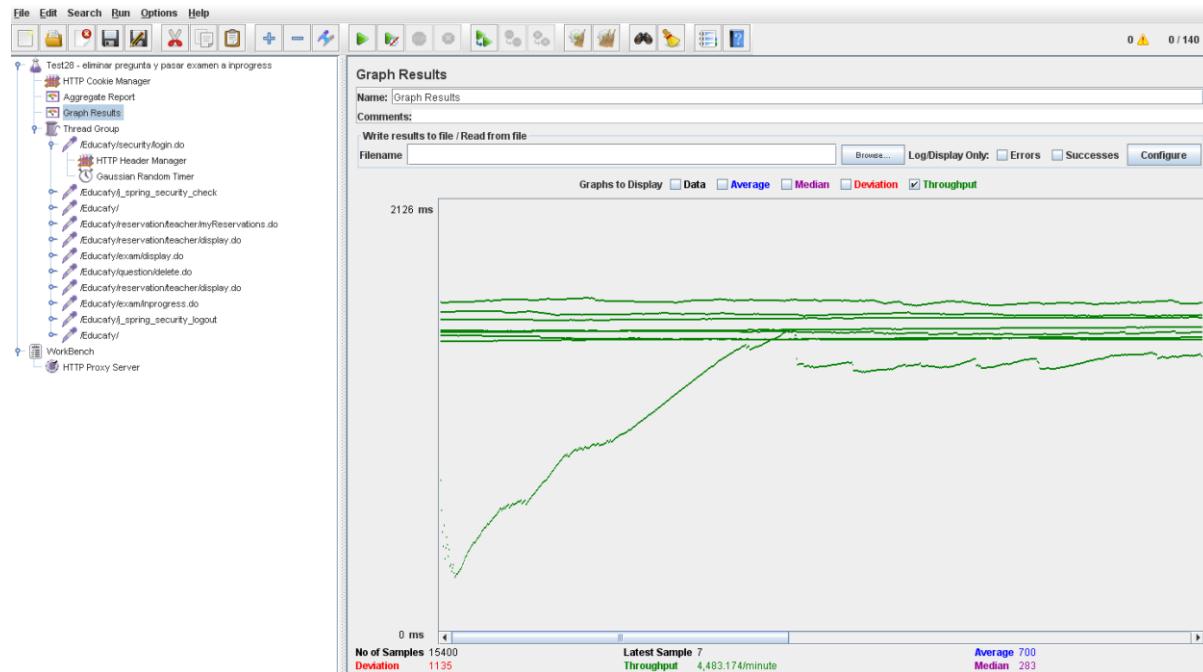
## Thread Group



## Report

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educacy/security/login.do	1400	894	372	2577	5	10115	0.00%	7.1/sec	31.7
/Educacy_spring_security_check	1400	967	554	2355	9	9909	0.00%	7.1/sec	35.9
/Educacy/	2800	583	219	1374	4	14051	0.00%	13.8/sec	61.8
/Educacy/reservationteacher/myReservations.do	1400	660	252	1787	10	12903	0.00%	7.2/sec	43.4
/Educacy/examdisplay.do	2800	707	295	1914	9	10978	0.00%	14.2/sec	125.6
/Educacy/question/delete.do	1400	619	173	1904	7	9805	0.00%	7.3/sec	39.7
/Educacy/reservationteacher/display.do	1400	631	220	1867	6	10566	0.00%	7.3/sec	92.6
/Educacy/examInProgress.do	1400	794	310	1979	14	12021	0.00%	7.3/sec	65.4
/Educacy_spring_security_logout	1400	556	240	1391	7	13730	0.00%	7.3/sec	31.9
TOTAL	15400	700	283	1918	4	14051	0.00%	74.7/sec	500.6

## Graph



## 4.15 Evaluar un examen finalizado

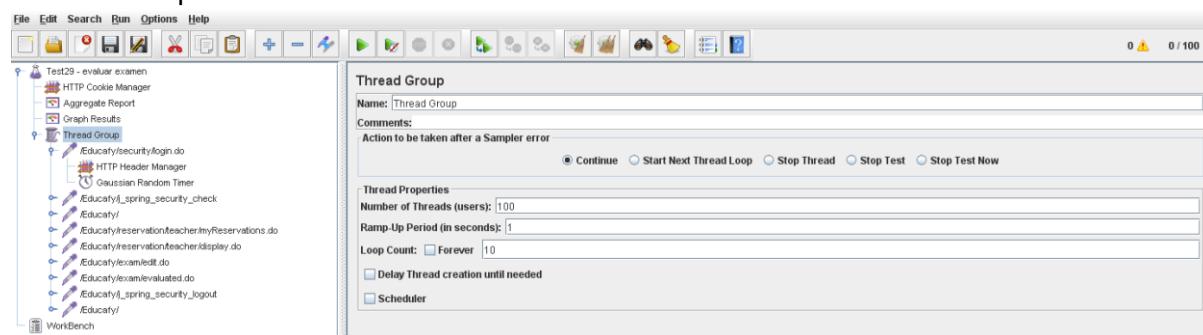
### Descripción del ordenador que ha realizado el caso de uso:

MacBook Pro:

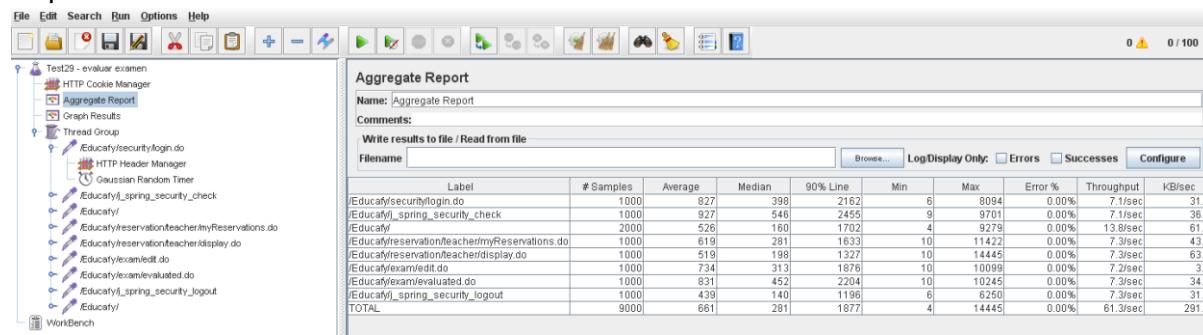
- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 100 clientes.

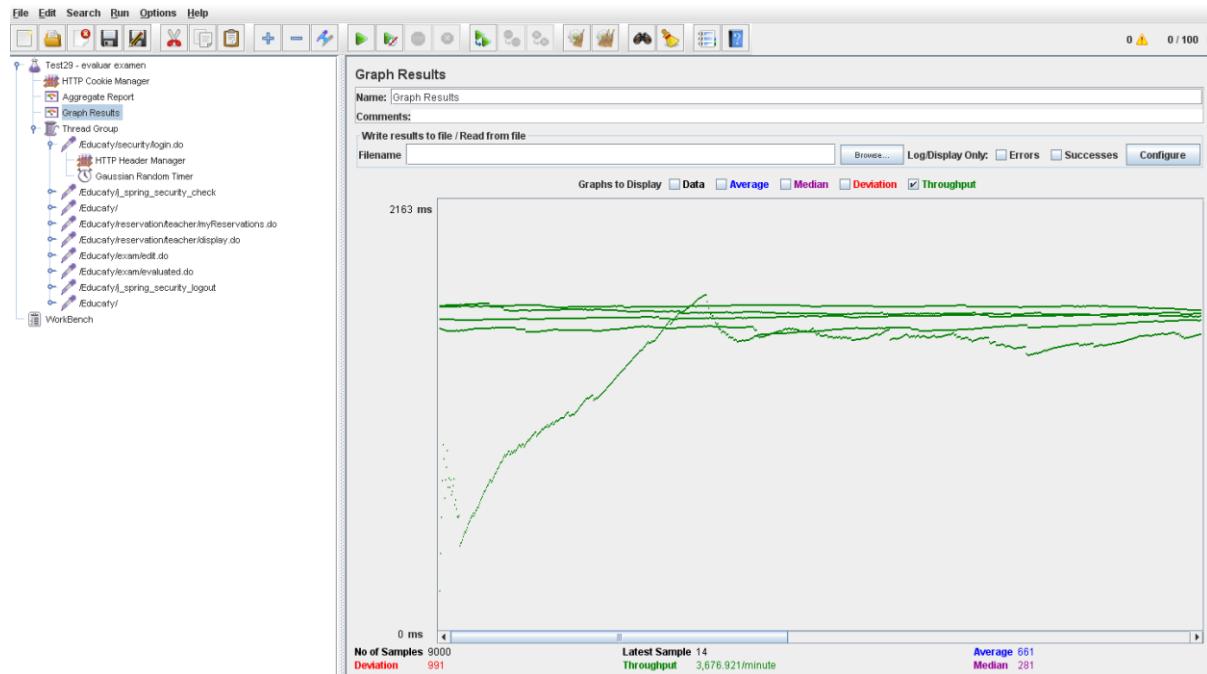
### Thread Group



### Report

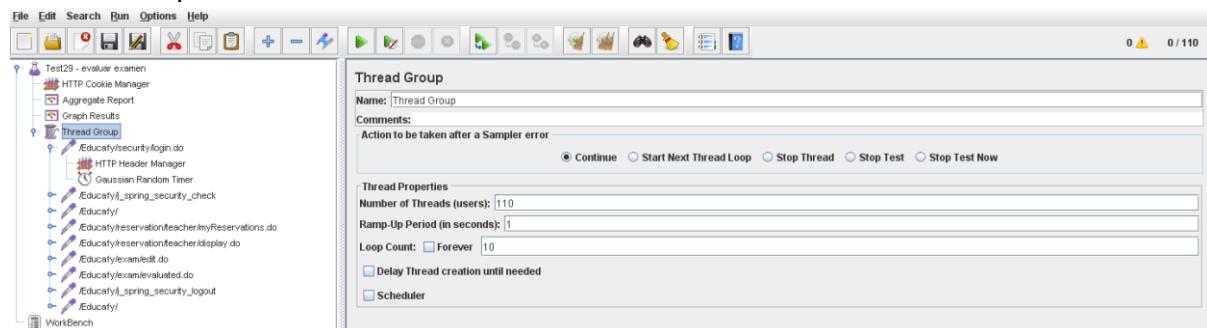


## Graph

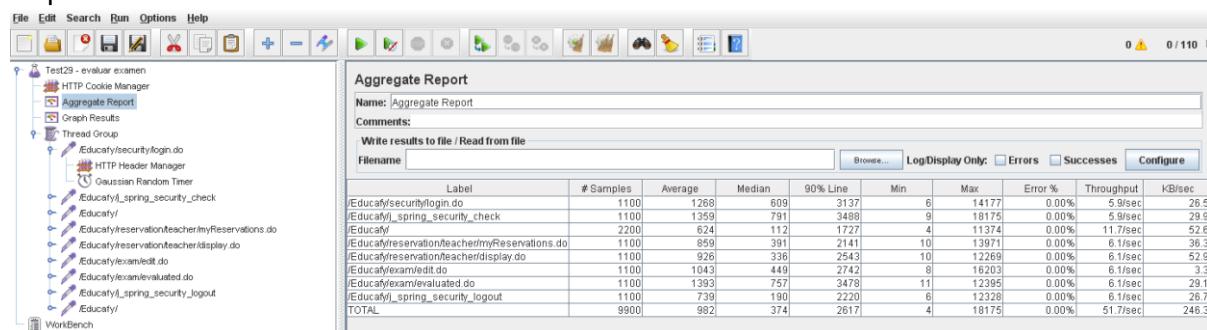


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 110 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

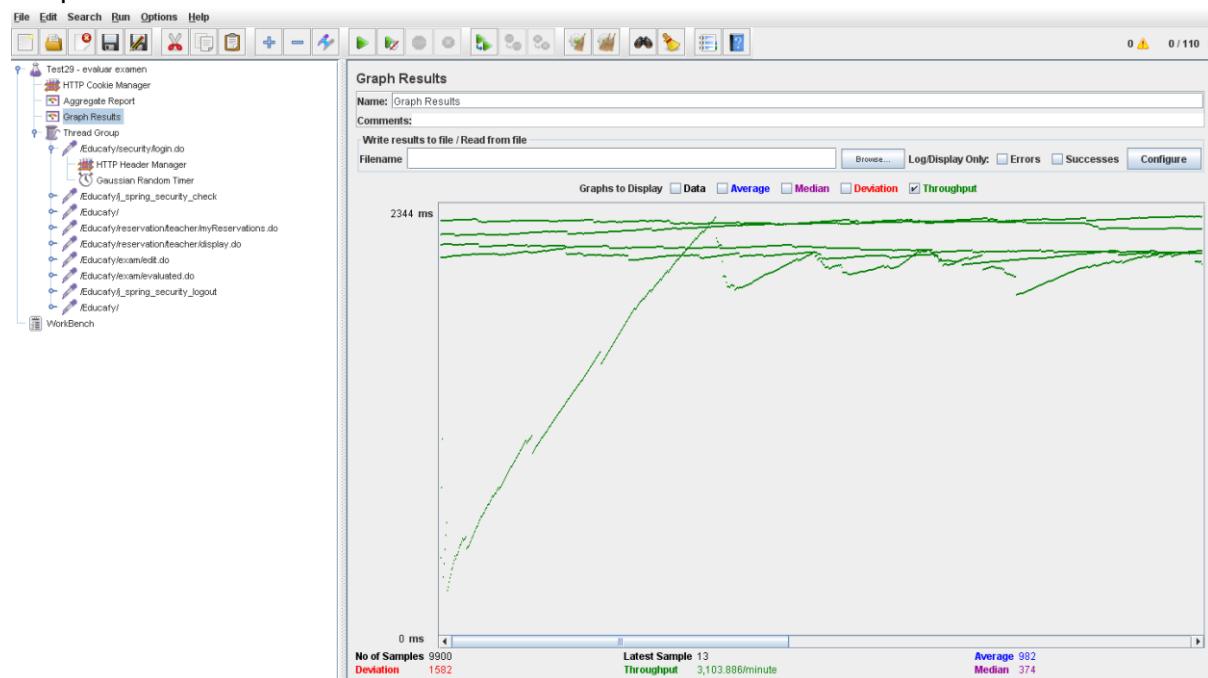
## Thread Group



## Report



## Graph



# 5. Un actor autenticado como ESTUDIANTE puede

## 5.1 Listar sus tarjetas de crédito y mostrar tarjeta de crédito

**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 40 clientes.

### Thread Group

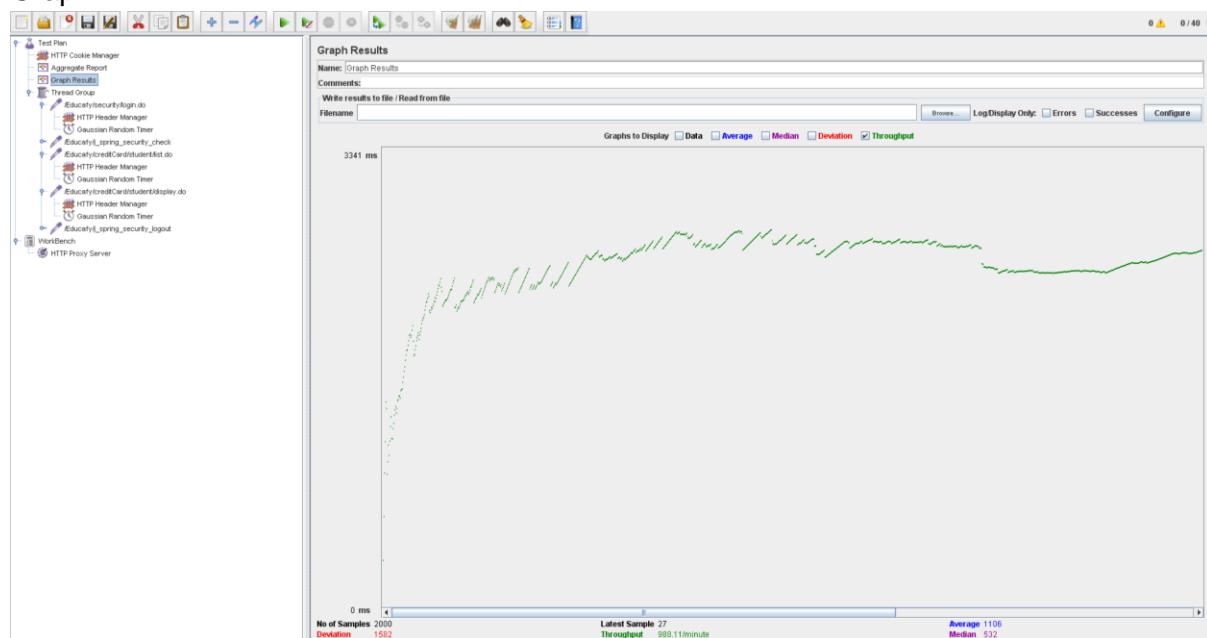
The screenshot shows the JMeter Thread Group configuration. The 'Number of Threads (users)' is set to 40, 'Ramp-Up Period (in seconds)' is 1, and 'Loop Count' is 10. Other options like 'Delay Thread creation until needed' and 'Scheduler' are unchecked.

### Report

The screenshot shows the JMeter Aggregate Report. It displays performance metrics for 2000 samples, including Average, Median, 90% Line, Min, Max, Error %, Throughput, and kB/sec. The report includes data for various requests like /security/login, /spring\_security\_check, and /creditCardList.do.

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
/security/login...	400	1779	1250	1904	6	15891	0.00%	3.4sec	15.1
/spring_sec...	400	1169	659	2142	6	11893	0.00%	3.4sec	17.3
/creditC...	400	899	294	1807	9	8923	0.00%	3.9sec	24.0
/creditC...	400	852	377	2162	10	12223	0.00%	3.9sec	17.4
/spring_sec...	400	820	284	2218	7	12423	0.00%	3.9sec	15.2
TOTAL	2000	1106	632	1967	6	15801	0.00%	16.9sec	65.3

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 50 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group

The screenshot shows the JMeter Test Plan interface. A 'Thread Group' is selected in the tree view. Its properties are set as follows:

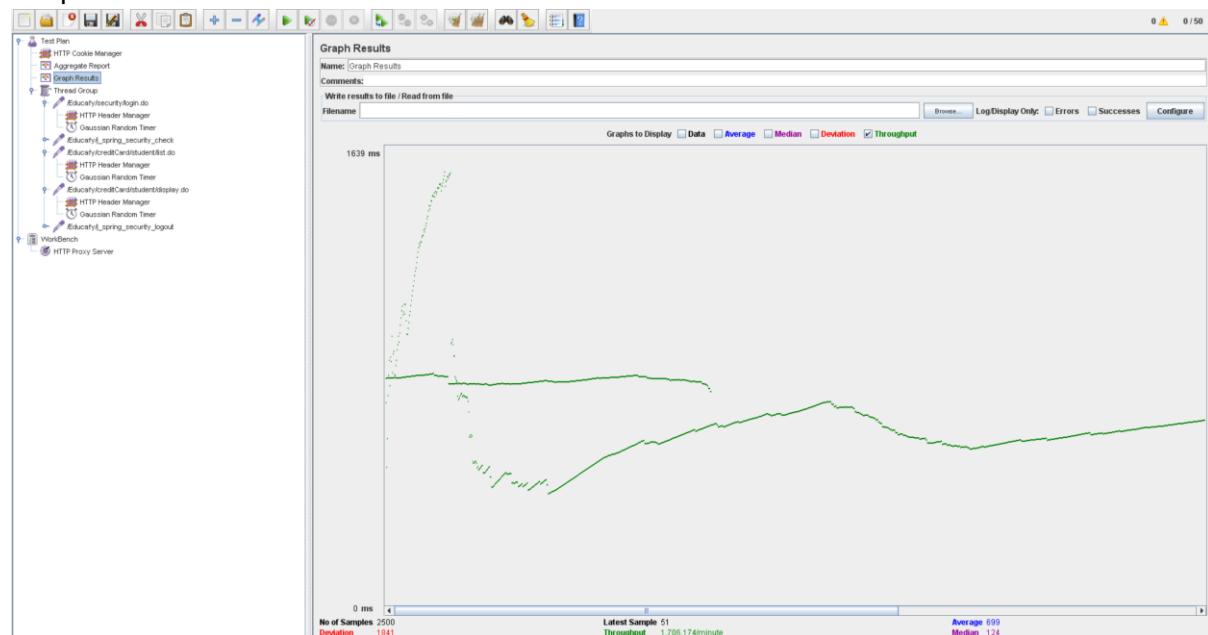
- Name: Thread Group
- Number of Threads (users): 50
- Ramp-Up Period (in seconds): 1
- Loop Count: Forever (10)
- Delay Thread creation until needed
- Scheduler

## Report

The screenshot shows the 'Aggregate Report' section of the JMeter results. The table provides a summary of the test results:

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
EDucativL_spring_sec_login...	500	1010	162	3351	6	16071	0.00%	5.9sec	26.4
EDucativL_spring_sec...	500	565	202	1076	10	12178	0.00%	5.9sec	37.3
EDucativL_creditC_arbitra...	500	778	98	1672	11	15635	0.00%	5.9sec	41.1
EDucativL_creditC_arbitra...	500	686	110	1796	10	15365	0.00%	6.1sec	30.6
EDucativL_spring_sec...	500	454	83	1162	7	15913	0.00%	6.1sec	26.8
TOTAL	2500	699	124	1672	6	16071	0.00%	26.4sec	147.2

## Graph



## 5.2 Crear tarjeta de crédito y editar tarjeta de crédito y borrar tarjeta de crédito

**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 60 clientes.

### Thread Group

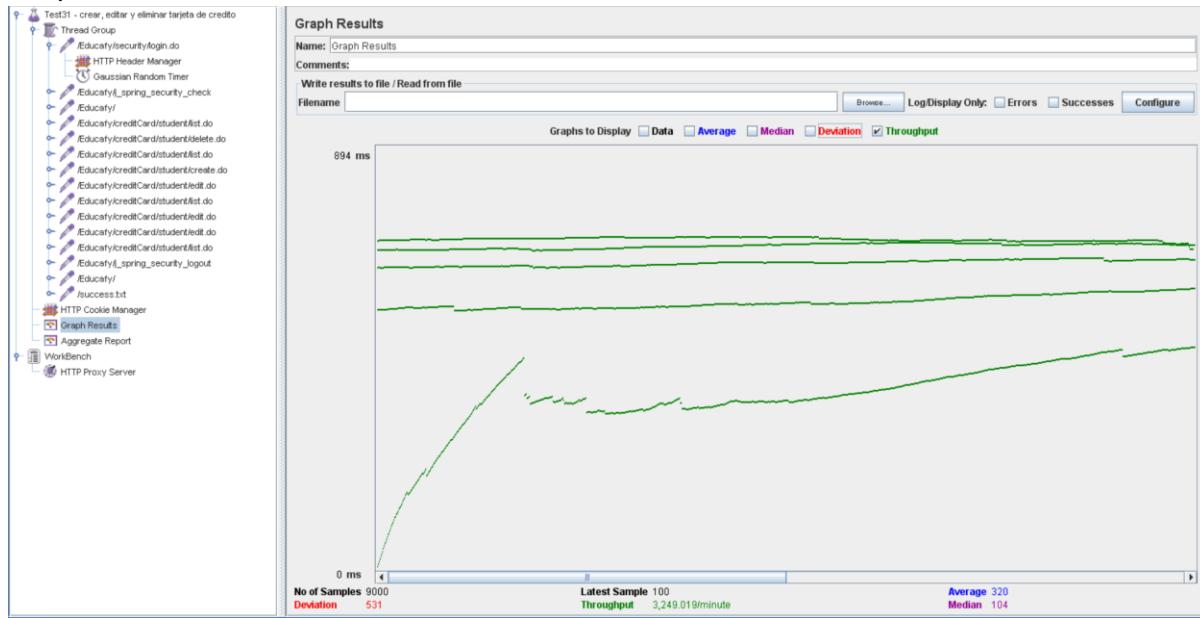
The screenshot shows the JMeter Thread Group configuration. The 'Name' field is set to 'Thread Group'. The 'Number of Threads (users)' is 60. The 'Ramp-Up Period (in seconds)' is 1. The 'Loop Count' is set to 'Forever' with 10 loops. Other options like 'Delay Thread creation until needed' and 'Scheduler' are unchecked.

### Report

The screenshot shows the JMeter Aggregate Report. It displays performance metrics for 9000 samples. The table includes columns for Label, # Samples, Average, Median, 90% Line, Min, Max, Error %, Throughput, and KB/sec. Key data points include an average response time of 549 ms and a throughput of 17.4 KB/sec.

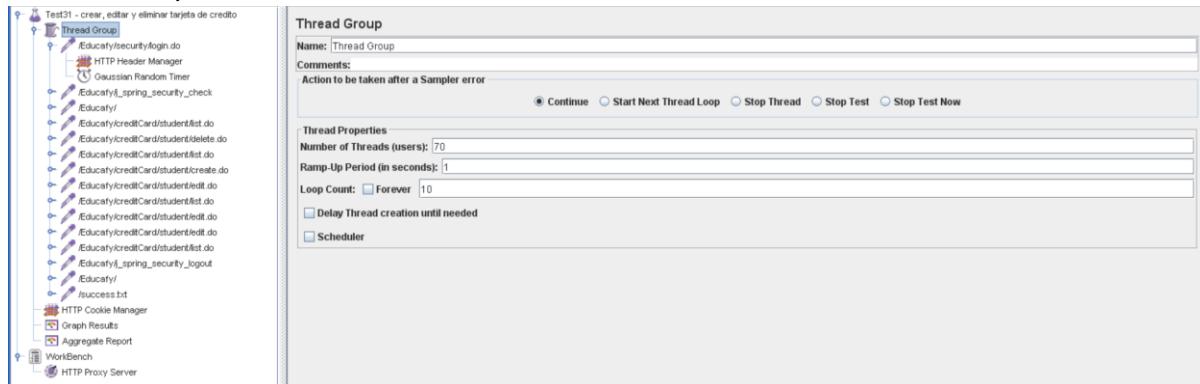
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educafyl/security/login.do	600	549	227	1926	6	3381	0.00%	3.9/sec	17.4
/Educafyl_spring_security_check	600	505	290	1333	10	3797	0.00%	3.9/sec	20.1
/Educafyl	1200	241	65	651	5	3771	0.00%	7.4/sec	33.5
/Educafyl/creditCard/student/list.do	2400	264	64	7369	9	3800	0.00%	15.0/sec	94.3
/Educafyl/creditCard/student/delete.do	600	288	70	871	144	3860	0.00%	3.9/sec	26.4
/Educafyl/creditCard/student/edit.do	600	206	48	1018	8	3427	0.00%	4.0/sec	25.6
/Educafyl/creditCard/student/edit.do	1800	434	239	1043	10	4476	0.00%	11.7/sec	100.7
/Educafyl_spring_security_logout	600	219	70	643	7	2825	0.00%	4.0/sec	17.6
/success.txt	600	118	93	174	60	621	0.00%	4.1/sec	1.5
TOTAL	9000	320	104	884	5	4476	0.00%	54.2/sec	320.7

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 70 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

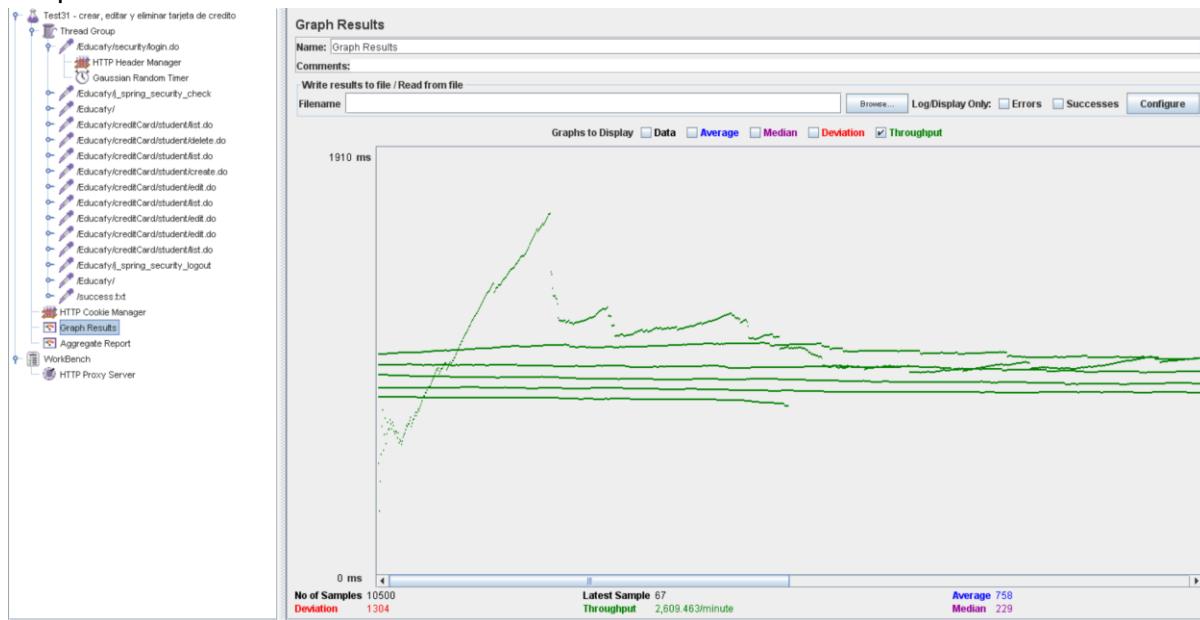
## Thread Group



## Report

Aggregate Report										
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec	
Educafylsecuritylogin.do	700	365	497	2032	5	12569	0.00%	3.0/sec	12.5	
Educafyl_spring_security_check	700	1099	672	2832	10	8802	0.00%	3.0/sec	16.5	
Educafyl	1400	653	141	1928	5	12933	0.00%	5.0/sec	26.4	
Educafylcreditcardstudentlist.do	2800	655	138	1994	8	12310	0.00%	11.7/sec	77.8	
Educafylcreditcardstudentdelete.do	700	551	154	1551	13	9710	0.00%	3.0/sec	20.3	
Educafylcreditcardstudentcreate.do	700	720	195	2119	6	10902	0.00%	3.0/sec	19.5	
Educafylcreditcardstudentedit.do	2100	1143	706	2846	9	12567	0.00%	9.0/sec	77.1	
Educafyl_spring_security_logout	700	697	150	1812	7	11349	0.00%	3.1/sec	13.3	
/success.txt	700	87	69	134	41	620	0.00%	3.1/sec	1.1	
TOTAL	10500	758	229	2179	5	12933	0.00%	43.5/sec	257.5	

## Graph



## 5.3 Listar sus reservas y mostrar una de ellas

**Descripción del ordenador que ha realizado el caso de uso:**

HP Envy 15:

-Procesador: 2,2GHz Intel Core i7-4702MQ

-Memoria RAM: 16GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 70 clientes.

## Thread Group

The Thread Group configuration window shows the following settings:

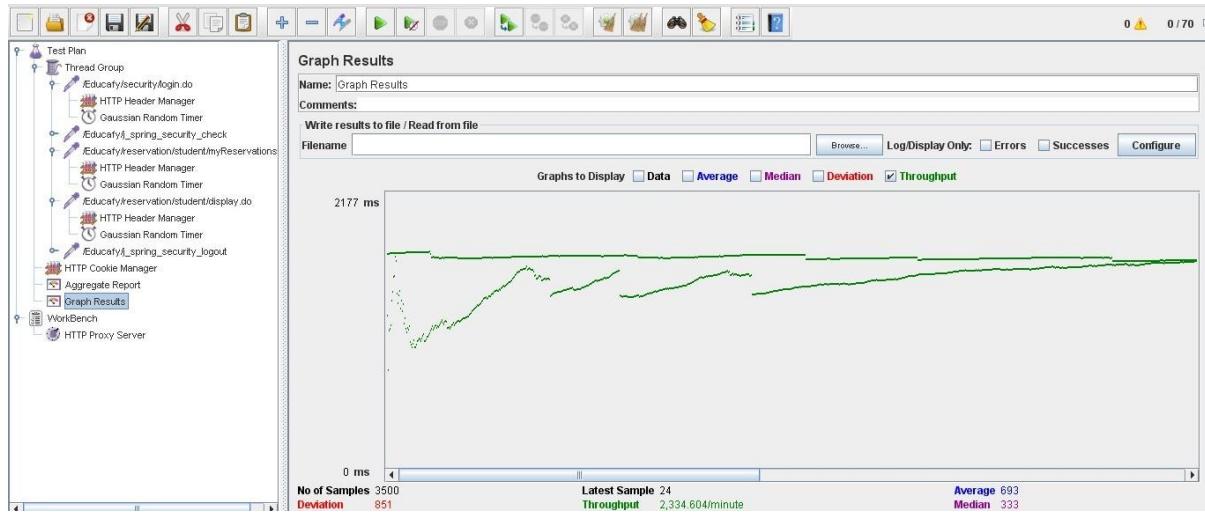
- Name: Thread Group
- Comments: Action to be taken after a Sampler error: Continue
- Thread Properties:
  - Number of Threads (users): 70
  - Ramp-Up Period (in seconds): 1
  - Loop Count: Forever
  - Delay Thread creation until needed
  - Scheduler

## Report

The Aggregate Report window displays the following performance metrics:

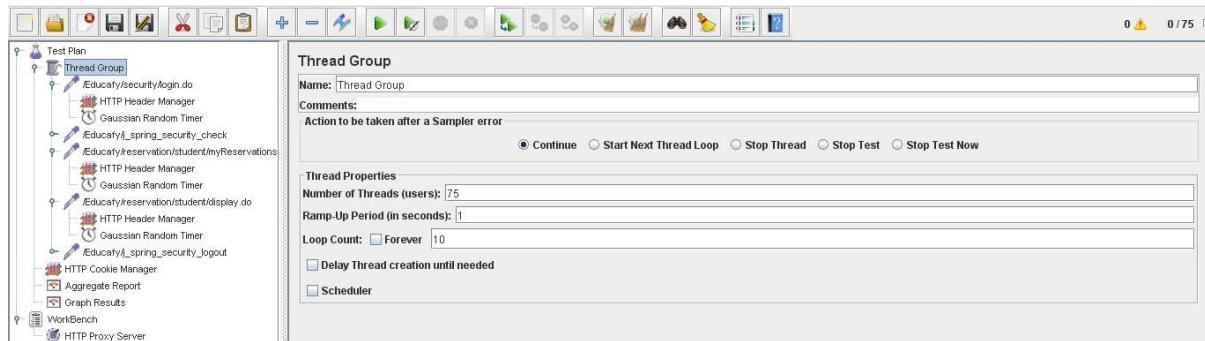
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
[EducayfI_security...]	700	1108	781	2444	9	5141	0.00%	8.1/sec	36.5
[EducayfI_spring...]	700	925	598	2288	11	5726	0.00%	8.1/sec	41.9
[EducayfI_reserva...]	700	605	225	1846	21	6182	0.00%	8.1/sec	53.8
[EducayfI_reserva...]	700	496	147	1523	18	5296	0.00%	8.1/sec	54.3
[EducayfI_spring...]	700	343	161	976	9	5232	0.00%	8.1/sec	36.0
TOTAL	3500	693	333	1919	9	6162	0.00%	8.1/sec	214.2

## Graph

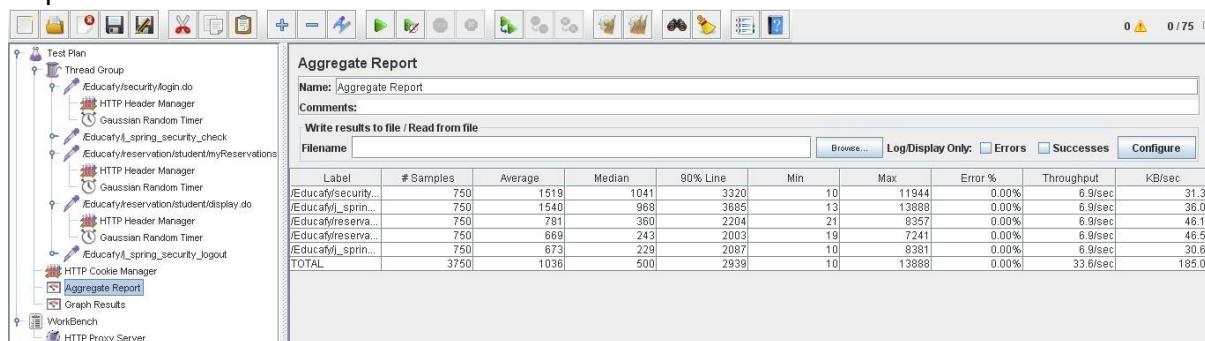


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 75 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

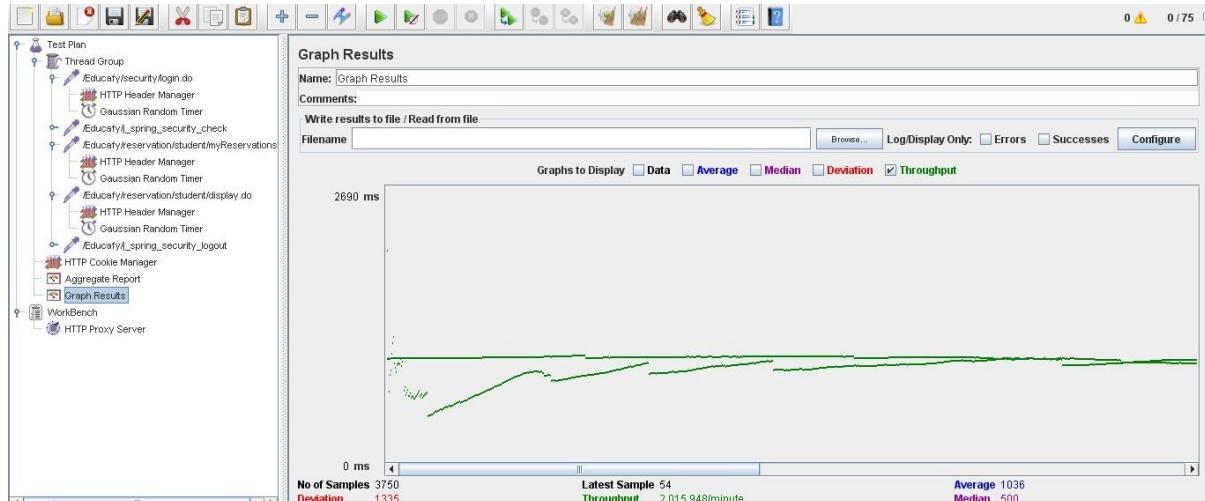
## Thread Group



## Report



## Graph



## 5.4 Listar exámenes y listar tramos horarios

Es el mismo caso de uso que el 5.3 *Listar sus reservas y mostrar una de ellas*

## 5.5 Crear reserva y editar reserva

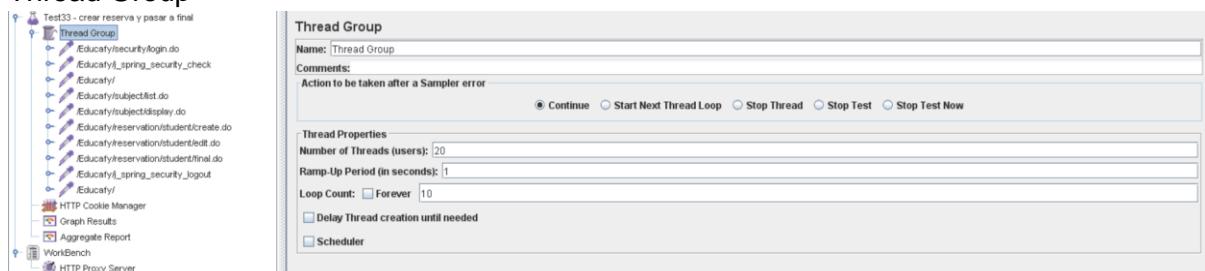
**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

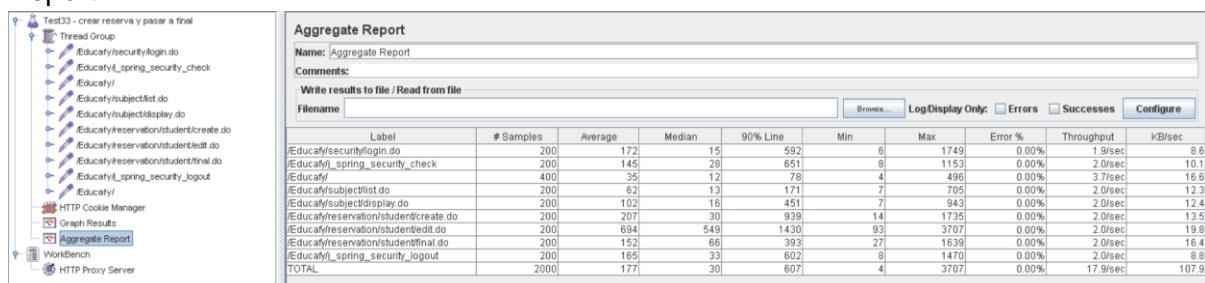
- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 20 clientes.

### Thread Group



### Report



## Graph

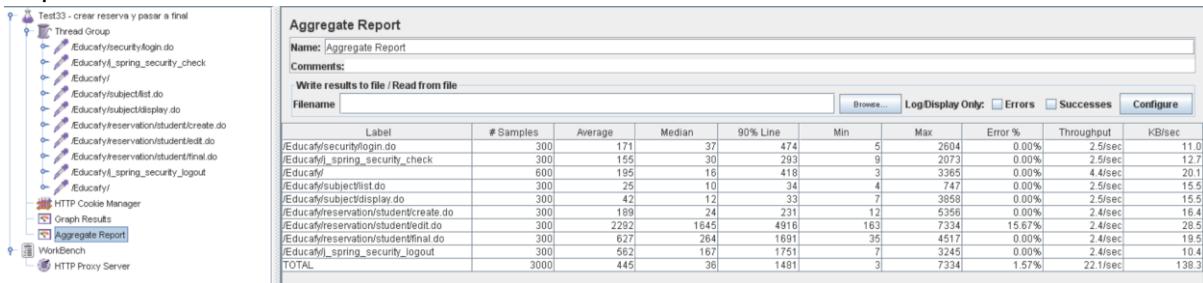


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 30 clientes, ya que hay % de error en una request cuando hace su acción indicada.

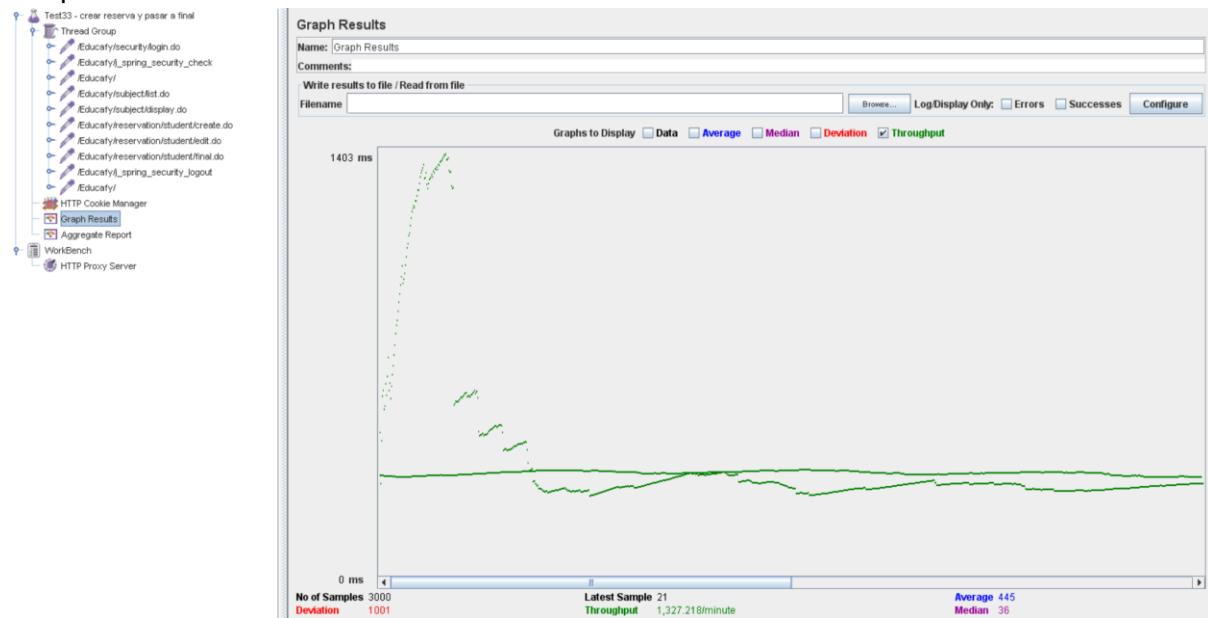
## Thread Group



## Report



## Graph



## 5.6 Pasar reserva a reviewing

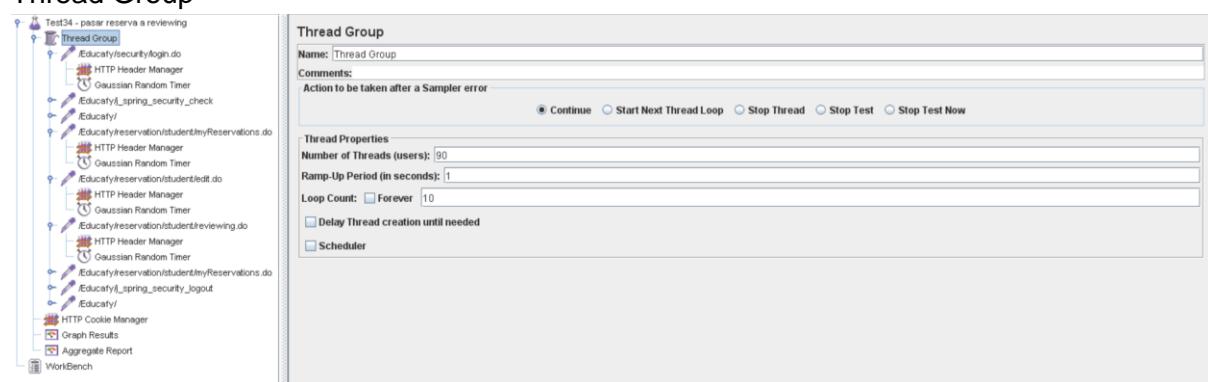
**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 90 clientes.

## Thread Group



## Report

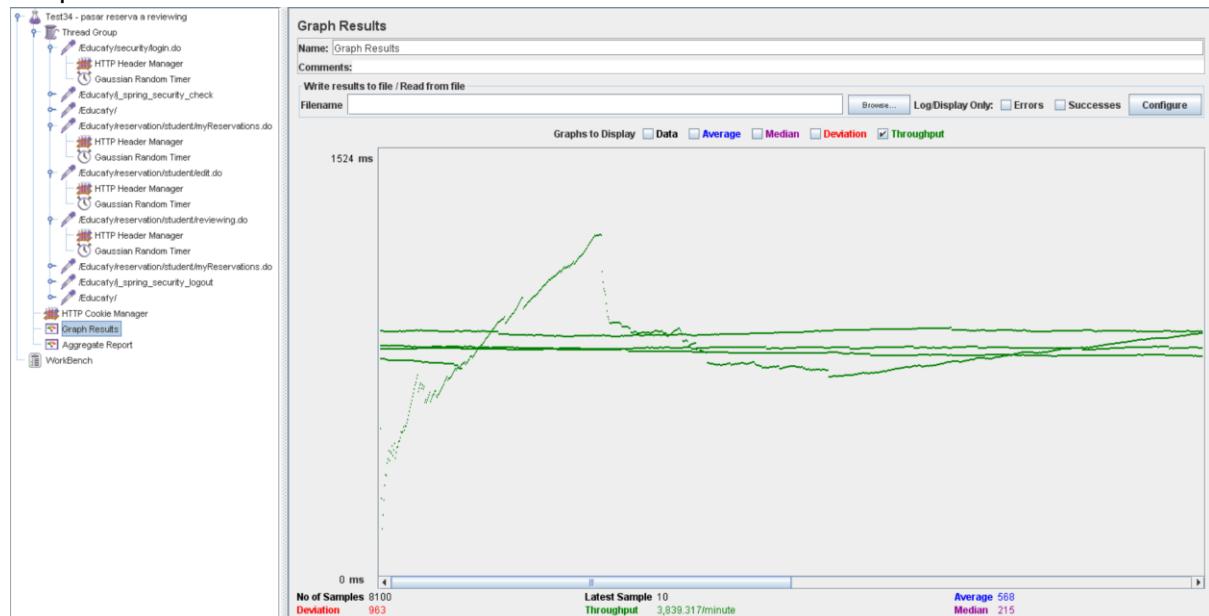
Test Plan: Test34 - pasar reserva a reviewing

- Thread Group
  - /Educayfy/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayfy\_spring\_security\_check
  - /Educayfy
  - /Educayf/reservation/student/myReservations.do
    - HTTP Header Manager
    - Gaussian Random Timer
    - /Educayf\_reservation/student/edit.do
      - HTTP Header Manager
      - Gaussian Random Timer
    - /Educayf\_reservation/student/reviewing.do
      - HTTP Header Manager
      - Gaussian Random Timer
    - /Educayf\_reservation/student/myReservations.do
      - HTTP Header Manager
      - Gaussian Random Timer
    - /Educayf\_reservation/student/logout
    - /Educayfy
  - HTTP Cookie Manager
  - Graph Results
  - Aggregate Report

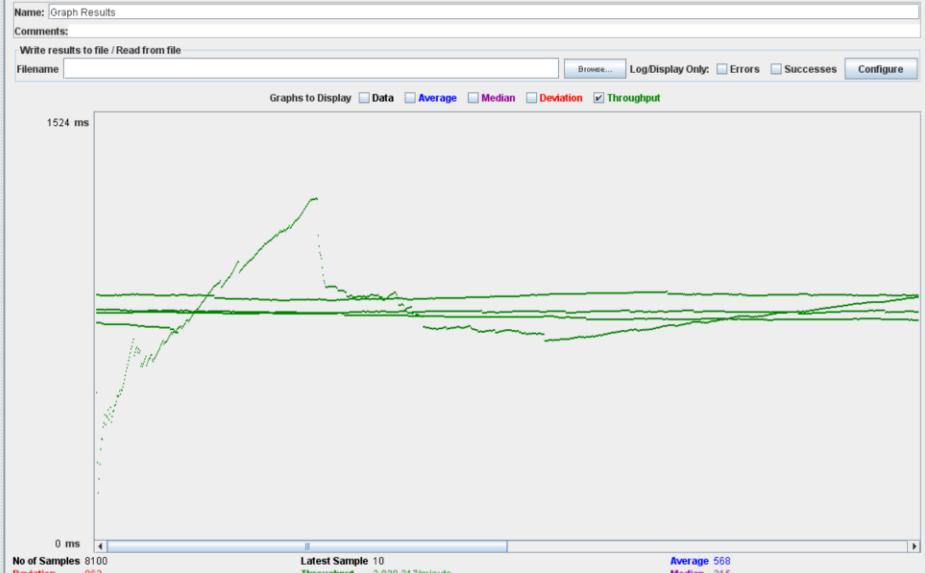
### Aggregate Report

Aggregate Report																		
Name:	Aggregate Report																	
Comments:																		
Write results to file / Read from file																		
Filename:	<input type="text"/>																	
Browse...	<input type="button" value="Log"/>																	
Display Only:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>															
Errors	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Successes	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>									
Configure	<input type="button" value="Configure"/>																	
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec									
Educayfy/security...	900	608	201	1473	5	7765	0.00%	7.3/sec	32.7									
Educayfy_spring...	900	825	458	1976	10	10387	0.00%	7.3/sec	37.8									
Educayfy	1800	472	156	1273	3	8171	0.00%	14.3/sec	64.9									
Educayf/reservati...	1800	462	124	1331	10	8785	0.00%	14.6/sec	91.3									
Educayf/reservati...	900	570	131	1604	9	10405	0.00%	7.4/sec	42.6									
Educayf/reservati...	900	817	405	2179	13	7630	0.00%	7.5/sec	44.7									
Educayfy_spring...	900	419	109	1015	8	11260	0.00%	7.5/sec	32.7									
TOTAL	8100	568	215	1532	3	11260	0.00%	64.0/sec	337.3									

## Graph



### Graph Results



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 100 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group

Test Plan: Test34 - pasar reserva a reviewing

- Thread Group
  - /Educayfy/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayfy\_spring\_security\_check
  - /Educayfy
  - /Educayf/reservation/student/myReservations.do
    - HTTP Header Manager
    - Gaussian Random Timer
    - /Educayf\_reservation/student/edit.do
      - HTTP Header Manager
      - Gaussian Random Timer
    - /Educayf\_reservation/student/reviewing.do
      - HTTP Header Manager
      - Gaussian Random Timer
    - /Educayf\_reservation/student/myReservations.do
      - HTTP Header Manager
      - Gaussian Random Timer
    - /Educayf\_reservation/student/logout
    - /Educayfy
  - HTTP Cookie Manager
  - Graph Results
  - Aggregate Report

### Thread Group

Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error:

Continue    Start Next Thread Loop    Stop Thread    Stop Test    Stop Test Now

Thread Properties

Number of Threads (users): 100

Ramp-Up Period (in seconds): 1

Loop Count:  Forever 10

Delay Thread creation until needed

Scheduler

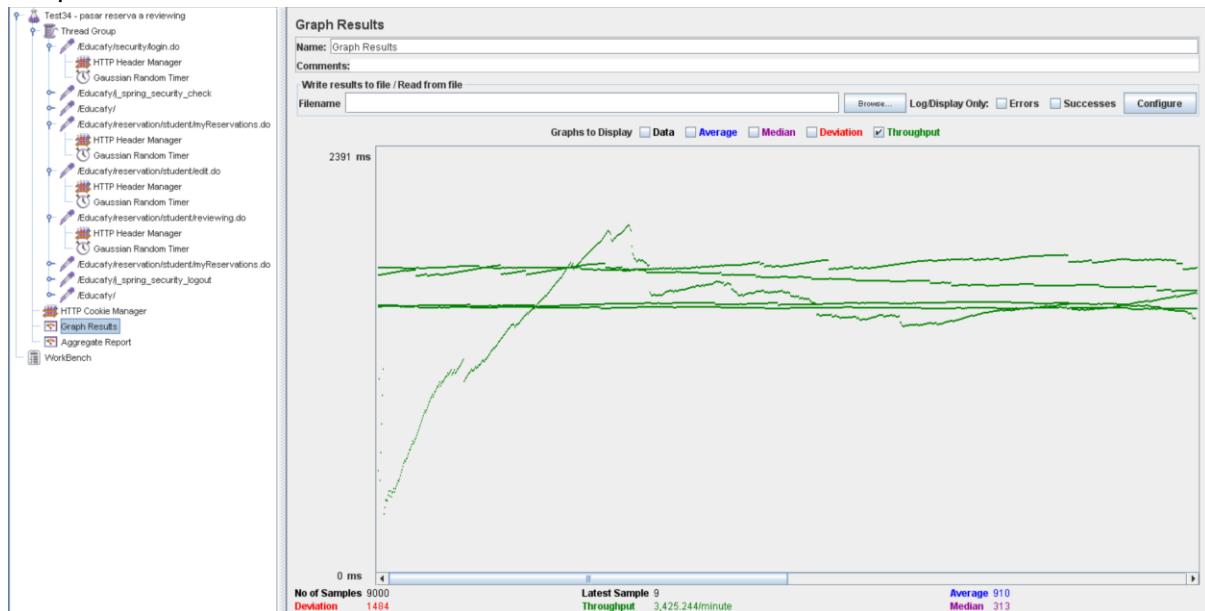
## Report

Test Plan: Test34 - pasar reserva a reviewing

Aggregate Report

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
Educacy/security/login.do	1000	1090	656	2583	6	14971	0.00%	6.6/sec	29.1
Educacy/_spring_security_check	1000	1421	701	3467	9	10155	0.00%	6.6/sec	33.6
Educacy/_spring	2000	754	188	2344	4	11284	0.00%	12.0/sec	58.1
Educacy/reservation/student/edit.do	2000	791	204	2427	11	14689	0.00%	12.9/sec	81.1
Educacy/reservation/student/myReservations.do	1000	793	180	2436	9	13773	0.00%	6.6/sec	39.1
Educacy/reservation/student/reviewing.do	1000	1218	615	3060	14	13496	0.00%	6.7/sec	39.8
Educacy/_spring	1000	576	133	1409	7	10191	0.00%	6.7/sec	29.1
TOTAL	9000	910	313	2586	4	18155	0.00%	57.1/sec	300.9

## Graph



## 5.7 Pasar a final una reserva y borrar reserva

### Descripción del ordenador que ha realizado el caso de uso:

HP Envy 15:

-Procesador: 2,2GHz Intel Core i7-4702MQ

-Memoria RAM: 16GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 40 clientes.

## Thread Group

Test Plan: Test34 - pasar reserva a a reviewing

Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error: Continue

Thread Properties

Number of Threads (users): 40

Ramp-Up Period (in seconds): 1

Loop Count: Forever 10

Delay Thread creation until needed

Scheduler

## Report

Test Plan

- Thread Group
  - /Educayf/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf\_spring\_security\_check
  - HTTP Header Manager
  - /Educayf/reservation/student/myReservations
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf/reservation/student/final.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf/reservation/student/delete.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf\_spring\_security\_logout
  - HTTP Cookie Manager
- Aggregate Report
- Graph Results

Aggregate Report

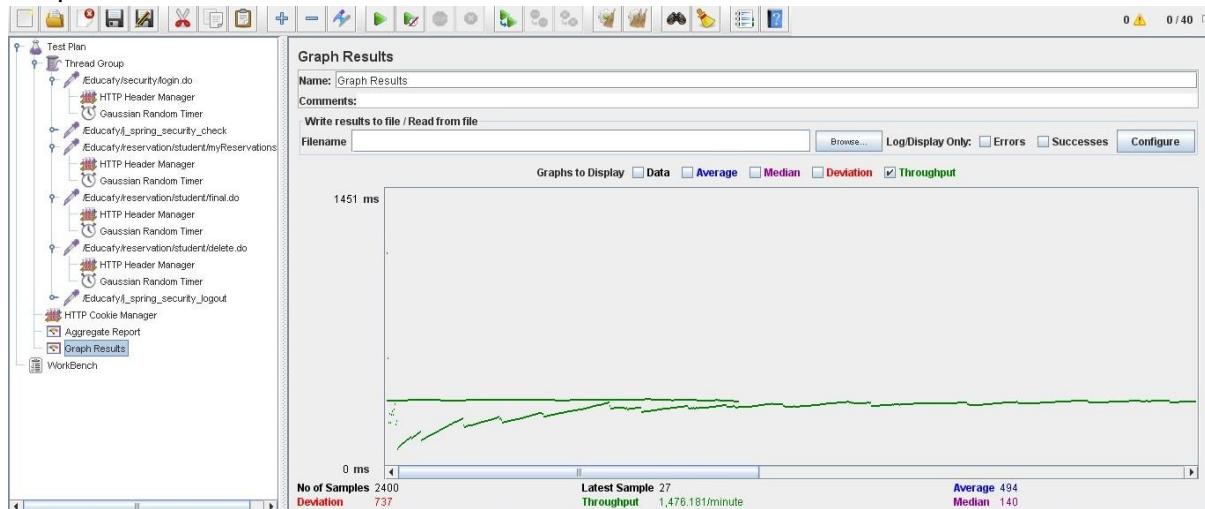
Name: Aggregate Report

Comments:

Write results to file / Read from file

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf/security...	400	1015	713	2445	9	5089	0.00%	4.3/sec	19.4
/Educayf_spring...	400	496	111	1809	12	4175	0.00%	4.3/sec	22.4
/Educayf/reserv...	400	480	120	1426	20	3686	0.00%	4.3/sec	25.6
/Educayf/reserv...	400	440	145	1287	11	3718	0.00%	4.4/sec	56.4
/Educayf/reserv...	400	389	139	1166	12	2552	0.00%	4.4/sec	56.6
/Educayf_spring...	400	143	61	379	10	3153	0.00%	4.4/sec	19.5
TOTAL	2400	494	140	1498	9	5089	0.00%	24.6/sec	188.6

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 50 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group

Test Plan

- Thread Group
  - /Educayf/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf\_spring\_security\_check
  - HTTP Header Manager
  - /Educayf/reservation/student/myReservations
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf/reservation/student/final.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf/reservation/student/delete.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educayf\_spring\_security\_logout
  - HTTP Cookie Manager
- Aggregate Report
- Graph Results

Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error:

Continue  Start Next Thread Loop  Stop Thread  Stop Test  Stop Test Now

Thread Properties

Number of Threads (users): 50

Ramp-Up Period (in seconds): 1

Loop Count:  Forever 10

Delay Thread creation until needed

Scheduler

## Report

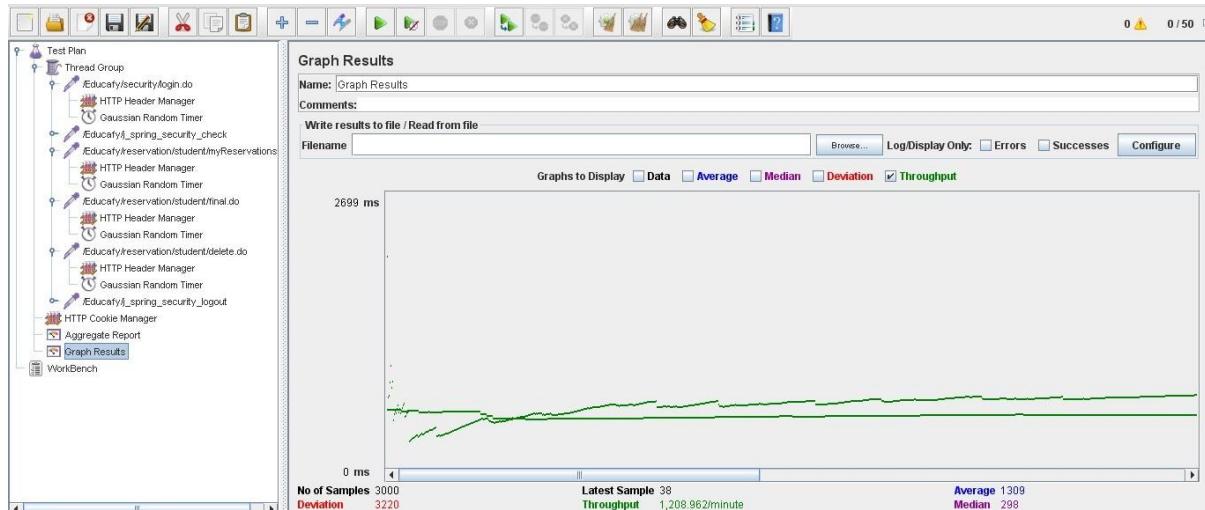
Screenshot of JMeter Aggregate Report results:

**Aggregate Report**

Name: Aggregate Report  
Comments:  
Write results to file / Read from file

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educafyl/security/login.do	500	2382	1194	3914	9	40404	0.00%	3.5/sec	15.6
/Educafyl_spring_security_check	500	999	279	2393	11	21608	0.00%	3.5/sec	18.0
/Educafyl/reservation/student/myReservations	500	1550	737	2409	20	24610	0.00%	3.5/sec	20.7
/Educafyl/reservation/student/final.do	500	1023	151	1899	12	25104	0.00%	3.5/sec	45.1
/Educafyl/reservation/student/delete.do	500	1241	264	2202	11	21542	0.00%	3.5/sec	45.6
/Educafyl_spring_security_logout	500	658	101	1297	9	19662	0.00%	3.5/sec	15.6
TOTAL	3000	1309	298	2509	9	40404	0.00%	20.1/sec	154.4

## Graph



## 5.8 Buscar clases y mostrar clases filtradas a través del buscador

**Descripción del ordenador que ha realizado el caso de uso:**

HP Envy 15:

-Procesador: 2,2GHz Intel Core i7-4702MQ

-Memoria RAM: 16GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 40 clientes.

## Thread Group

Screenshot of JMeter Thread Group configuration:

**Thread Group**

Name: Thread Group  
Comments:  
Action to be taken after a Sampler error: Continue

Thread Properties

Number of Threads (users): 40  
Ramp-Up Period (in seconds): 1  
Loop Count: Forever 10  
 Delay Thread creation until needed  
 Scheduler

## Report

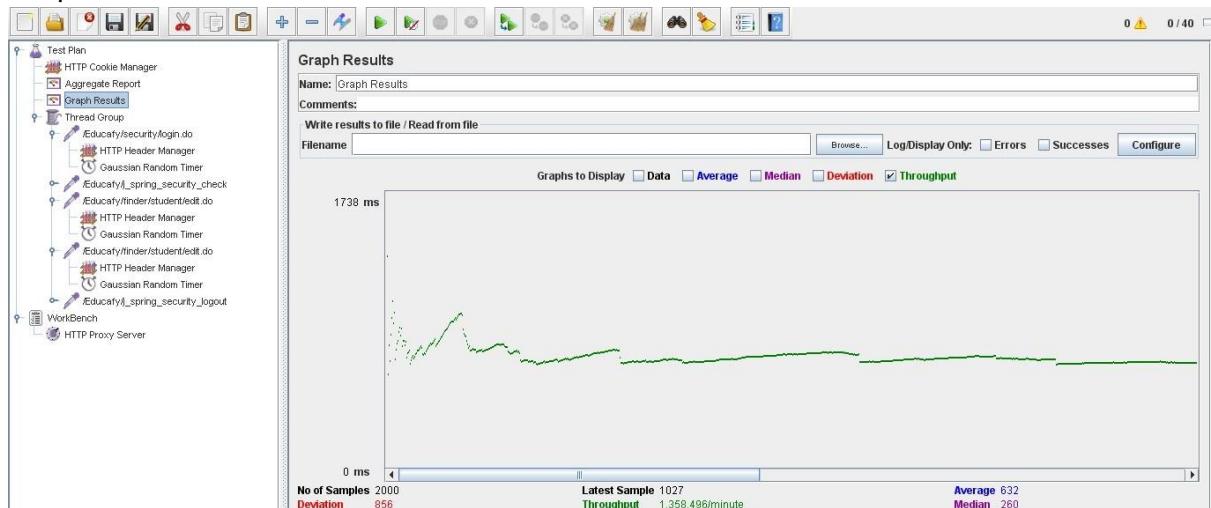
Screenshot of JMeter Aggregate Report results:

**Aggregate Report**

Name: Aggregate Report  
Comments:  
Write results to file / Read from file

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf/security...	400	808	454	2020	8	5617	0.00%	4.8/sec	21.5
/Educayf/_spring_...	400	416	146	1102	13	4599	0.00%	4.8/sec	24.8
/Educayf/infere...	800	772	377	2068	21	5503	0.00%	9.3/sec	71.4
/Educayf/_sprin...	400	391	95	1232	10	4948	0.00%	4.7/sec	20.8
TOTAL	2000	632	260	1896	8	5617	0.00%	22.6/sec	133.3

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 50 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group

Screenshot of JMeter Thread Group configuration:

**Thread Group**

Name: Thread Group  
Comments:  
Action to be taken after a Sampler error:

- Continue
- Start Next Thread Loop
- Stop Thread
- Stop Test
- Stop Test Now

Thread Properties

Number of Threads (users): 50  
Ramp-Up Period (in seconds): 1  
Loop Count:  Forever 10  
 Delay Thread creation until needed  
 Scheduler

## Report

Screenshot of JMeter Aggregate Report results:

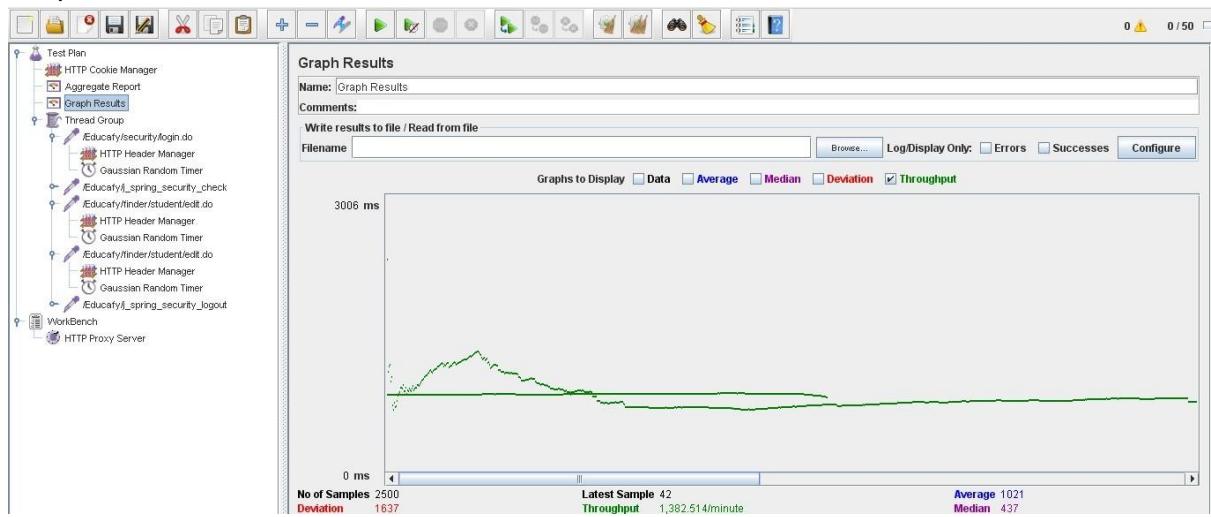
**Aggregate Report**

Name: Aggregate Report  
Comments:

Write results to file / Read from file

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf/security...	500	901	513	2146	10	7011	0.00%	4.7/sec	21.4
/Educayf/_spring_...	500	1491	680	4161	14	17620	0.00%	4.7/sec	24.7
/Educayf/finder/st...	1000	1058	507	2556	21	18202	0.00%	9.4/sec	71.6
/Educayf/_spring_...	500	597	128	1551	12	17191	0.00%	4.8/sec	21.1
TOTAL	2500	1021	437	2647	10	18202	0.00%	23.0/sec	135.7

## Graph



## 5.9 Mostrar examen, mostar y editar pregunta y pasar examen a submitted

**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 50 clientes.

## Thread Group

Screenshot of JMeter Thread Group configuration:

**Thread Group**

Name: Thread Group  
Comments:

Action to be taken after a Sampler error: Continue

Thread Properties:

- Number of Threads (users): 50
- Ramp-Up Period (in seconds): 1
- Loop Count: Forever 10
- Delay Thread creation until needed
- Scheduler

## Report

File Edit Search Run Options Help

34 0 / 50

Test37 - Mostrar examen, editar pregunta, y pasar examen a submitted

Thread Group

- HTTP Header Manager
- Gaussian Random Timer
- Educaty!
- Educaty\_reservation:studentMyReservations.do
- Educaty\_exam:display.do
- Educaty\_question:edit.do?examId=5467
- Educaty\_exam:submitted.do
- Educaty\_exam:security\_logout
- Educaty!
- HTTP Cookie Manager
- Graph Results
- Aggregate Report

WorkBench

HTTP Proxy Server

**Aggregate Report**

Name: Aggregate Report

Comments:

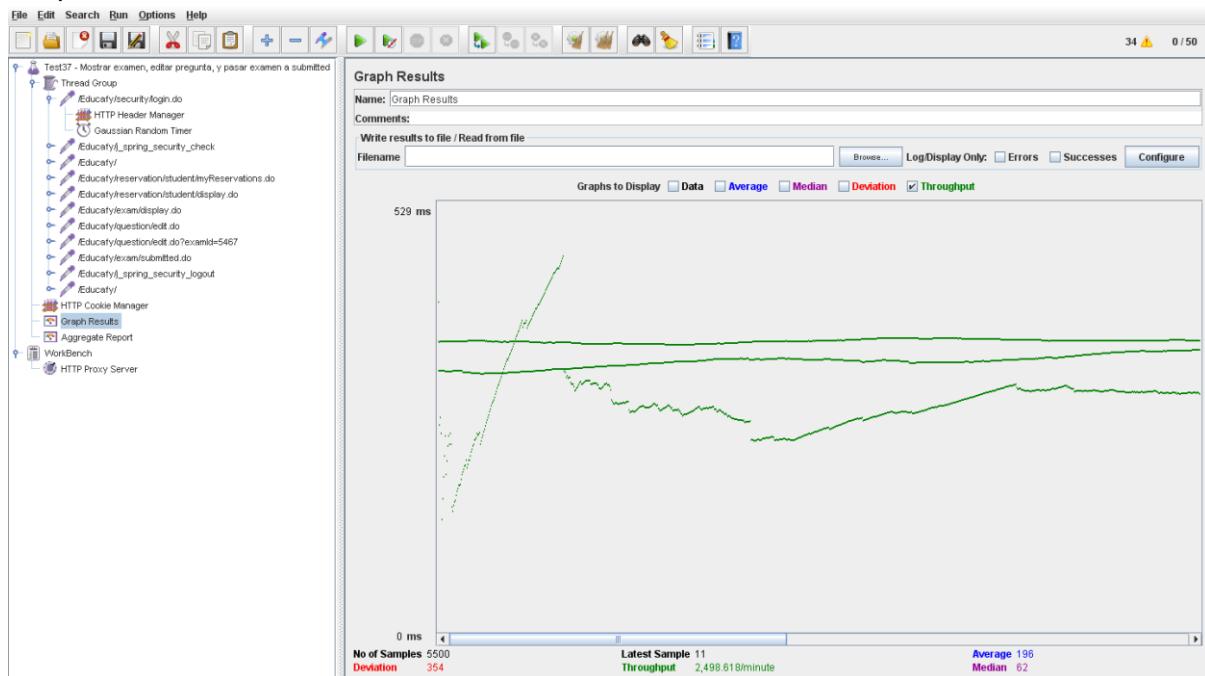
Write results to file / Read from file

Filename:

Browse... Log Display Only: Errors Successes Configure

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educaty/security/login.do	500	244	134	717	6	1952	0.00%	4.1/sec	18.4
/Educaty_exam:security_check	500	330	162	869	9	1897	0.00%	4.1/sec	21.3
Educaty!	1000	126	32	384	4	2305	0.00%	7.1/sec	34.9
/Educaty_reservation:studentMyReservations.do	500	166	61	406	11	1434	0.00%	4.2/sec	27.0
/Educaty_exam:display.do	500	87	36	242	10	790	0.00%	4.2/sec	31.1
/Educaty_exam:display.do	500	62	21	146	8	1753	0.00%	4.2/sec	22.4
/Educaty_question:edit.do	500	79	25	141	8	3729	0.00%	4.2/sec	23.1
/Educaty_question:edit.do?examId=5467	500	478	287	1055	19	5243	0.00%	4.2/sec	110.4
/Educaty_exam:submitted.do	500	224	127	503	16	2225	0.00%	4.2/sec	27.9
/Educaty_exam:security_logout	500	236	73	626	7	2419	0.00%	4.2/sec	18.4
TOTAL	5500	198	62	528	4	5243	0.00%	41.6/sec	306.9

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 60 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group

File Edit Search Run Options Help

0 0 / 60

Test37 - Mostrar examen, editar pregunta, y pasar examen a submitted

Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error

Continue Start Next Thread Loop Stop Thread Stop Test Stop Test Now

Thread Properties

Number of Threads (users): 60

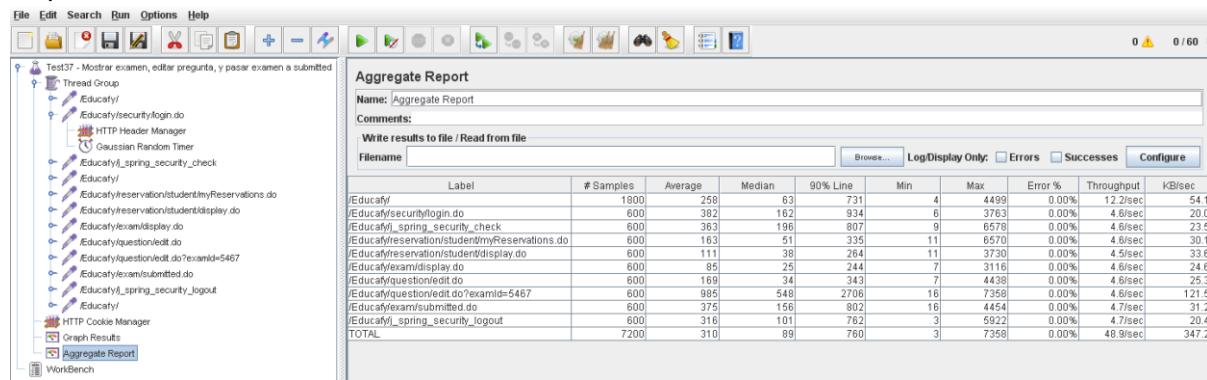
Ramp-Up Period (in seconds): 1

Loop Count: Forever 10

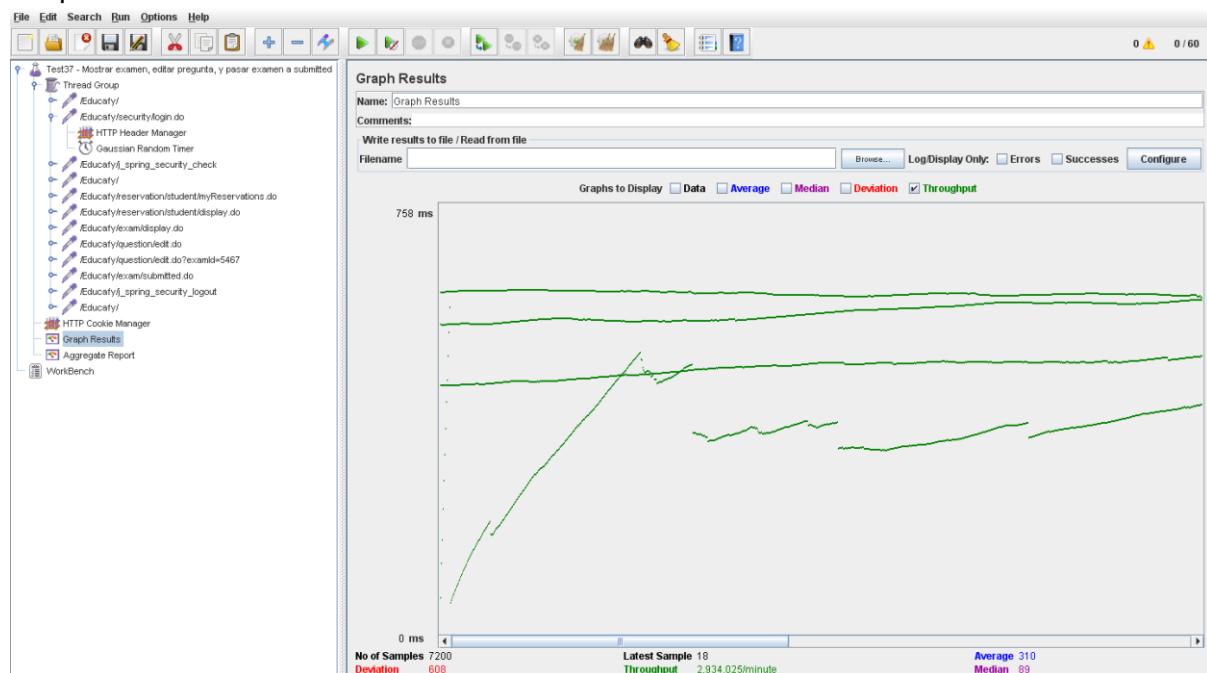
Delay Thread creation until needed

Scheduler

## Report



## Graph



## 5.10 Listar valoraciones, listar clases y crear valoración

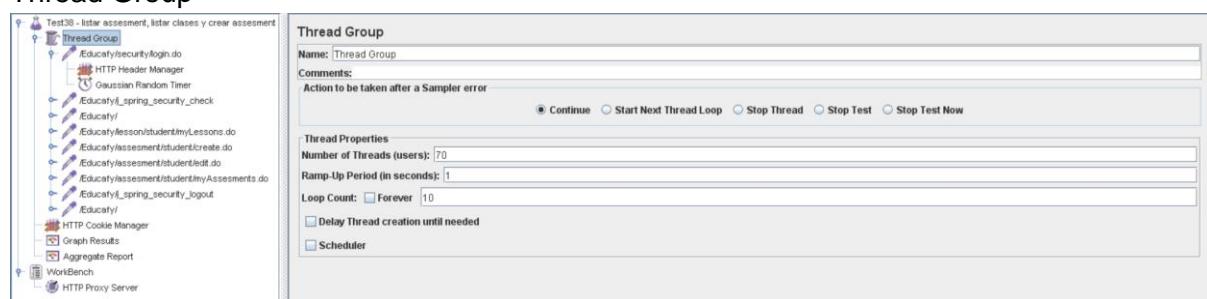
### Descripción del ordenador que ha realizado el caso de uso:

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 70 clientes.

## Thread Group



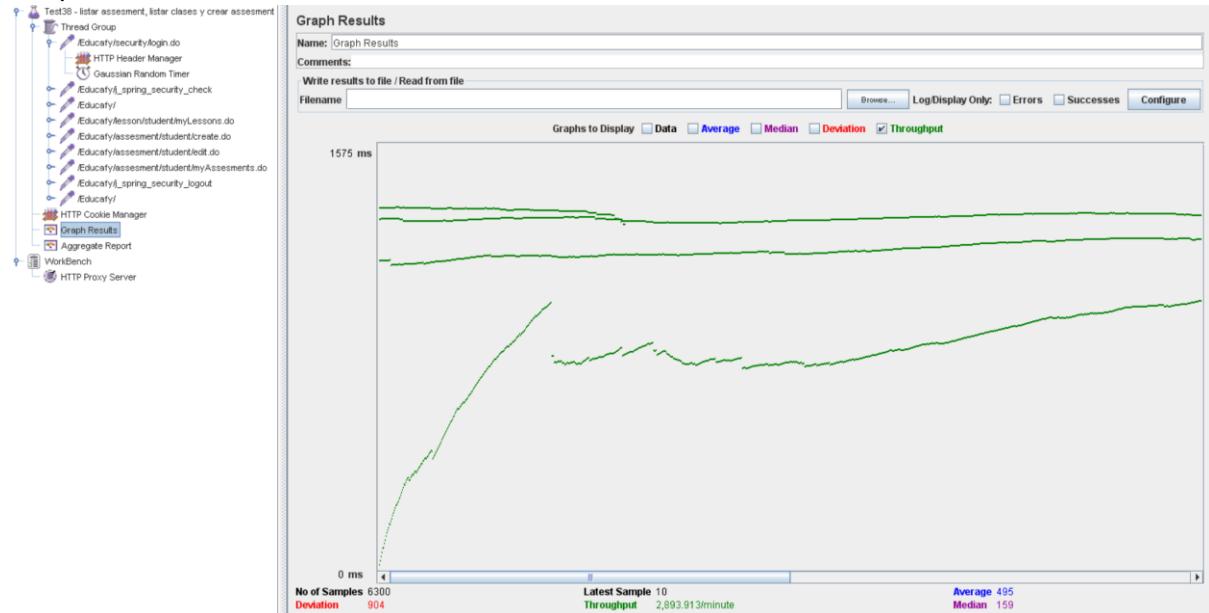
## Report

Test38 - listar assessment, listar clases y crear assessment

**Aggregate Report**

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educafy/security/login.do	700	652	256	2057	6	6757	0.00%	5.7/sec	25.2
/Educafy/_spring_security_check	700	644	340	1694	10	6077	0.00%	5.6/sec	28.7
/Educafy/	1400	334	101	912	5	6934	0.00%	1.1/sec	50.1
/Educafy/lesson/student/myLessons.do	700	349	78	1260	13	4719	0.00%	5.9/sec	36.7
/Educafy/assessment/student/create.do	700	285	40	468	6	5444	0.00%	5.9/sec	32.9
/Educafy/assessment/student/edit.do	700	930	431	2451	21	8779	0.00%	5.9/sec	46.5
/Educafy/assessment/student/myAssessments.do	700	553	157	1442	20	6649	0.00%	5.9/sec	38.8
/Educafy/_spring_security_logout	700	395	121	948	8	6457	0.00%	6.0/sec	26.0
<b>TOTAL</b>	<b>6300</b>	<b>495</b>	<b>159</b>	<b>1343</b>	<b>5</b>	<b>8779</b>	<b>0.00%</b>	<b>48.2/sec</b>	<b>264.1</b>

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 80 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group

Test38 - listar assessment, listar clases y crear assessment

**Thread Group**

Name: Thread Group	Comments:
Action to be taken after a Sampler error	
<input checked="" type="radio"/> Continue <input type="radio"/> Start Next Thread Loop <input type="radio"/> Stop Thread <input type="radio"/> Stop Test <input type="radio"/> Stop Test Now	
<b>Thread Properties</b>	
Number of Threads (users): 80	
Ramp-Up Period (in seconds): 1	
Loop Count: <input type="checkbox"/> Forever 10	
<input type="checkbox"/> Delay Thread creation until needed	
<input type="checkbox"/> Scheduler	

## Report

Test38 - listar asesment, listar clases y crear asesment

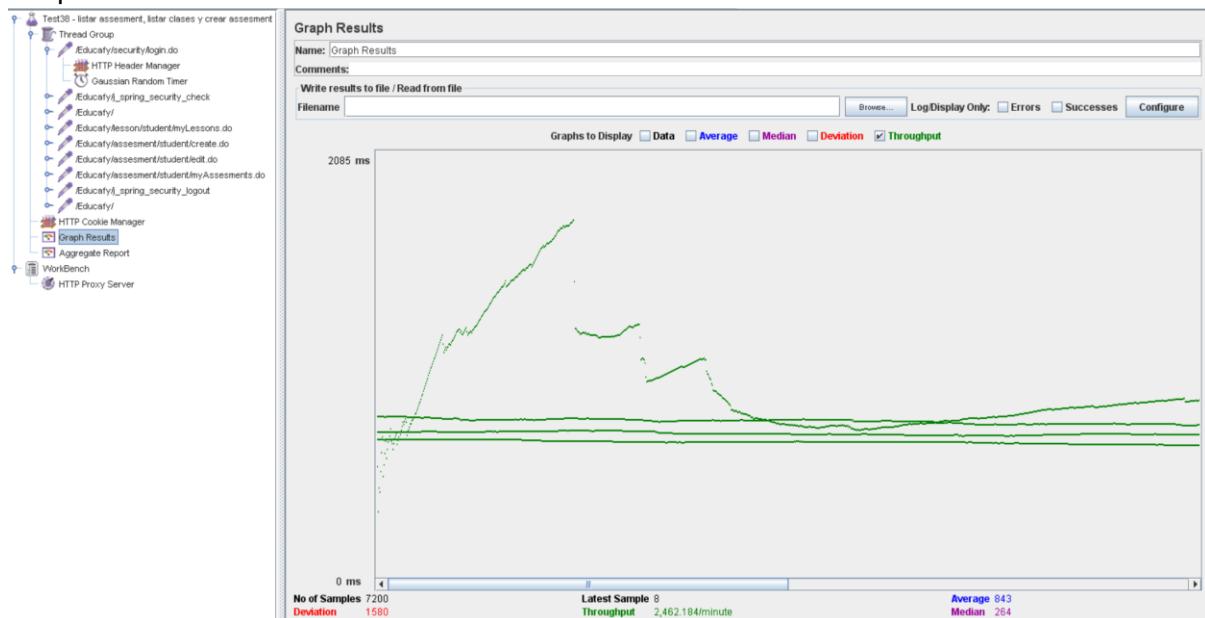
Aggregate Report

Name: Aggregate Report  
Comments:

Write results to file / Read from file  
Filename:

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf/security/login.do	800	698	302	1753	6	9501	0.00%	4.7/sec	21.2
/Educayf_spring_security_check	800	1246	535	3232	10	20586	0.00%	4.7/sec	24.4
/Educayf	1600	649	166	1992	5	12455	0.00%	9.2/sec	41.5
/Educayflesson/student/myLessons.do	800	714	137	1797	11	15689	0.00%	4.8/sec	29.7
/Educayfassessment/student/create.do	800	738	113	2111	6	11738	0.00%	4.8/sec	26.6
/Educayfassessment/student/edit.do	800	1458	707	3892	22	10997	0.00%	4.7/sec	37.5
/Educayfassessment/student/myAssessments.do	800	772	276	2035	41	12827	0.00%	4.7/sec	31.1
/Educayf_spring_security_logout	800	660	155	1842	6	13712	0.00%	4.8/sec	20.7
TOTAL	7200	843	264	2288	5	20586	0.00%	41.0/sec	224.8

## Graph



# 6.Un actor autenticado como ADMINISTRATOR puede

## 6.1 Registrar nuevo administrador

**Descripción del ordenador que ha realizado el caso de uso:**

HP Envy 15:

-Procesador: 2,2GHz Intel Core i7-4702MQ

-Memoria RAM: 16GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 40 clientes.

### Thread Group

Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error:

Number of Threads (users): 40

Ramp-Up Period (in seconds): 1

Loop Count: Forever 10

Delay Thread creation until needed

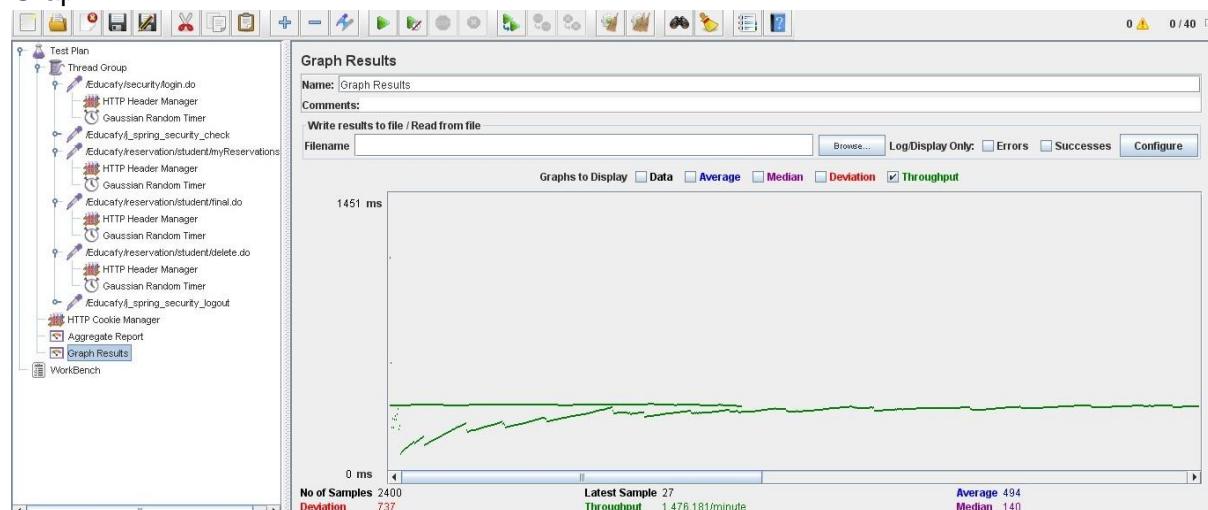
Scheduler

### Report

Aggregate Report

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
Educafyl-security...	400	1015	713	2445	9	5089	0.00%	4.3/sec	19.4
Educafyl_sprin...	400	496	111	1809	12	4175	0.00%	4.3/sec	22.4
Educafyl_reserva...	400	480	120	1426	20	3686	0.00%	4.3/sec	25.6
Educafyl_reserva...	400	440	145	1297	11	3719	0.00%	4.4/sec	56.4
Educafyl_reserva...	400	389	139	1166	12	2552	0.00%	4.4/sec	56.6
Educafyl_sprin...	400	143	61	379	10	3153	0.00%	4.4/sec	19.5
TOTAL	2400	434	140	1498	9	5089	0.00%	24.6/sec	198.6

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 50 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

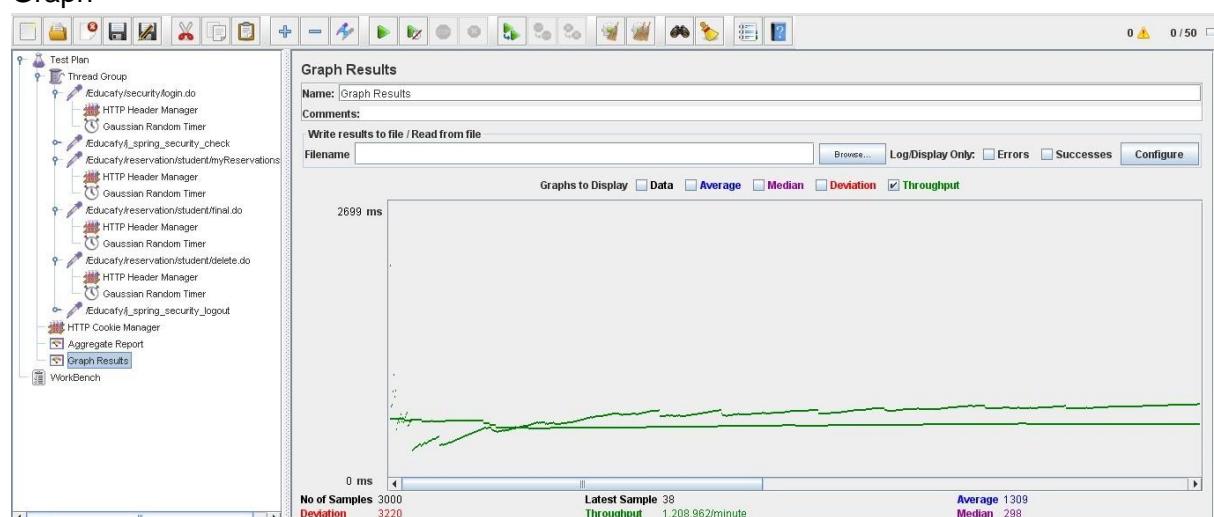
The screenshot shows the JMeter Test Plan interface. On the left, there's a tree view of the test plan with nodes like 'Test Plan', 'Thread Group', and various samplers and timers. On the right, the 'Thread Group' configuration panel is open. It has fields for 'Name: Thread Group', 'Comments:', 'Action to be taken after a Sampler error' (radio buttons for Continue, Start Next Thread Loop, Stop Thread, Stop Test, Stop Test Now), and 'Thread Properties'. Under 'Thread Properties', 'Number of Threads (users):' is set to 50, 'Ramp-Up Period (in seconds):' is 1, and 'Loop Count:' is 1. There are also checkboxes for 'Delay Thread creation until needed' and 'Scheduler'.

### Report

The screenshot shows the 'Aggregate Report' section of the JMeter interface. It displays a table of results for each sampler in the thread group. The columns include Label, # Samples, Average, Median, 90% Line, Min, Max, Error %, Throughput, and KB/sec. The table shows data for various samplers like 'Educatty\_security\_login.do', 'Educatty\_spring\_security\_check', etc., with a total of 3000 samples and an average response time of 1309 ms.

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
Educatty_security...	500	2392	1194	3914	9	40404	0.00%	3.5/sec	15.8
Educatty_spring...	500	999	279	2393	11	21609	0.00%	3.5/sec	19.0
Educatty_reserva...	500	1550	737	24009	20	24610	0.00%	3.5/sec	20.7
Educatty_reserva...	500	1023	151	1889	12	25104	0.00%	3.5/sec	45.1
Educatty_reserva...	500	1241	264	2202	11	21542	0.00%	3.5/sec	45.6
Educatty_spring...	500	658	101	1287	9	19662	0.00%	3.5/sec	15.6
TOTAL	3000	1309	298	2509	9	40404	0.00%	20.1/sec	154.4

### Graph



## 6.2 Registrar nuevo certificador

**Descripción del ordenador que ha realizado el caso de uso:**

Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 120 clientes.

### Thread Group

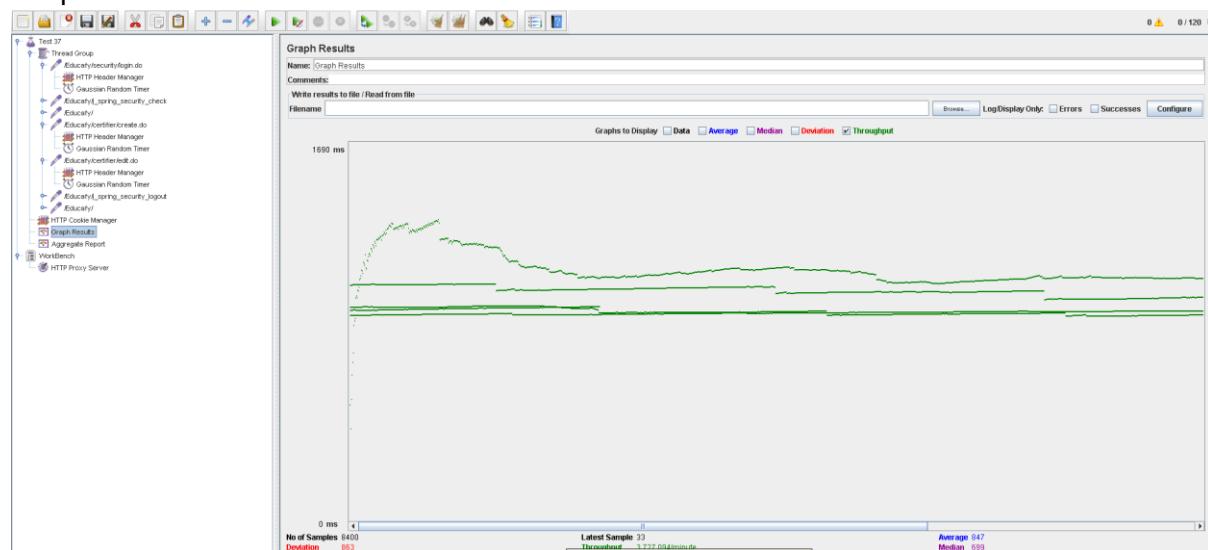
The screenshot shows the JMeter Thread Group configuration. The 'Number of Threads (users)' is set to 120, 'Ramp-Up Period (in seconds)' is 1, and 'Loop Count' is set to 'Forever' with 10 loops. Other settings like 'Delay Thread creation until needed' and 'Scheduler' are also visible.

### Report

The screenshot shows the JMeter Aggregate Report. It displays various performance metrics for 120 threads, including Average, Median, 90% Line, Min, Max, Error %, Throughput, and kB/sec. A detailed table of results is shown below:

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
EducationSecurityLogin.do	1200	1331	1191	2402	11	9939	0.00%	9.1/sec	41.1
EducationSpringSecurityCheck	1200	691	676	182	1	525	0.00%	1.7/sec	6.0
EducationUserCreate.do	1200	680	561	1473	10	5510	0.00%	9.1/sec	72.5
EducationUserDelete.do	1200	708	565	1491	16	4702	0.00%	9.1/sec	74.2
EducationUserEdit.do	1200	622	491	1224	10	4547	0.00%	9.1/sec	40.2
EducationSpringSecurityLogout	1200	699	699	1727	7	9939	0.00%	62.1/sec	355.2
TOTAL	8400	647	699	1727	7	9939	0.00%	62.1/sec	355.2

### Graph



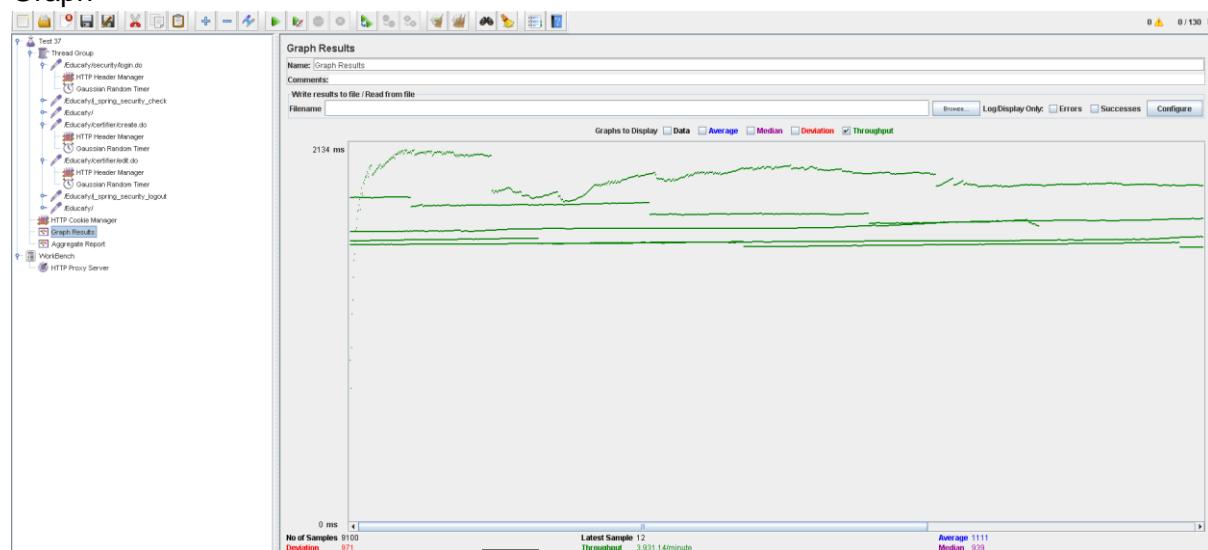
**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 130 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

### Report

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	kB/sec
EducatySecurityLogin.do	1300	1054	792	2381	6	6357	0.00%	9.6/sec	43.3
[Educaty]_spring_secur...	1300	1752	1430	3181	11	9295	0.00%	9.6/sec	52.6
EducatySecurityCheck...	2600	1710	1129	2226	7	7379	0.00%	18.7/sec	68.6
EducatyCertificateCreate...	1300	900	723	1902	11	5954	0.00%	9.6/sec	76.3
EducatyCertificateRead...	1300	939	755	1907	16	6147	0.00%	9.6/sec	78.1
[Educaty]_spring_secur...	1300	695	609	1426	0	8276	0.00%	9.6/sec	42.4
TOTAL	9100	1111	919	2297	6	9295	0.00%	65.5/sec	374.7

### Graph



## 6.3 Crear asignatura, editar asignatura y borrar asignatura

**Descripción del ordenador que ha realizado el caso de uso:**

Toshiba Satelite P50B10V:

-Procesador: 2,5GHz Intel Core i7

-Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 50 clientes.

### Thread Group

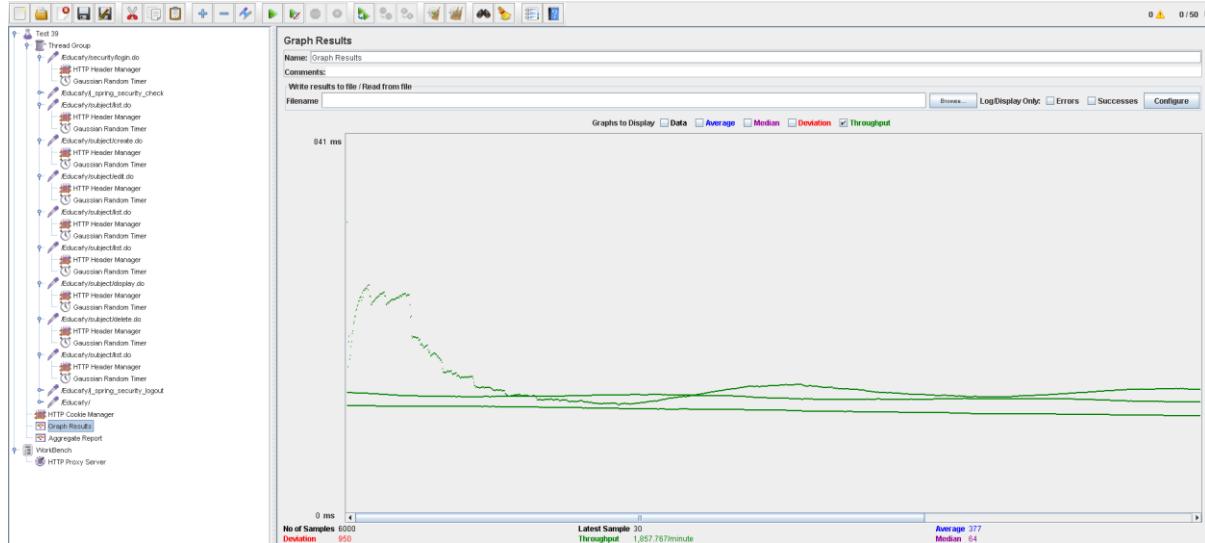
The screenshot shows the JMeter Thread Group configuration. The 'Number of Threads (users):' is set to 50, 'Ramp-Up Period (in seconds)': 1, and 'Loop Count': Forever 10. Other settings like 'Delay Thread creation until needed' and 'Scheduler' are unchecked.

### Report

The screenshot shows the JMeter Aggregate Report. It displays performance metrics for 50 users. The table includes columns for Label, # Samples, Average, Median, 90% Line, Min, Max, Error %, Throughput, and KB/sec. Key data points include an average response time of 269 ms and a throughput of 2.8/sec.

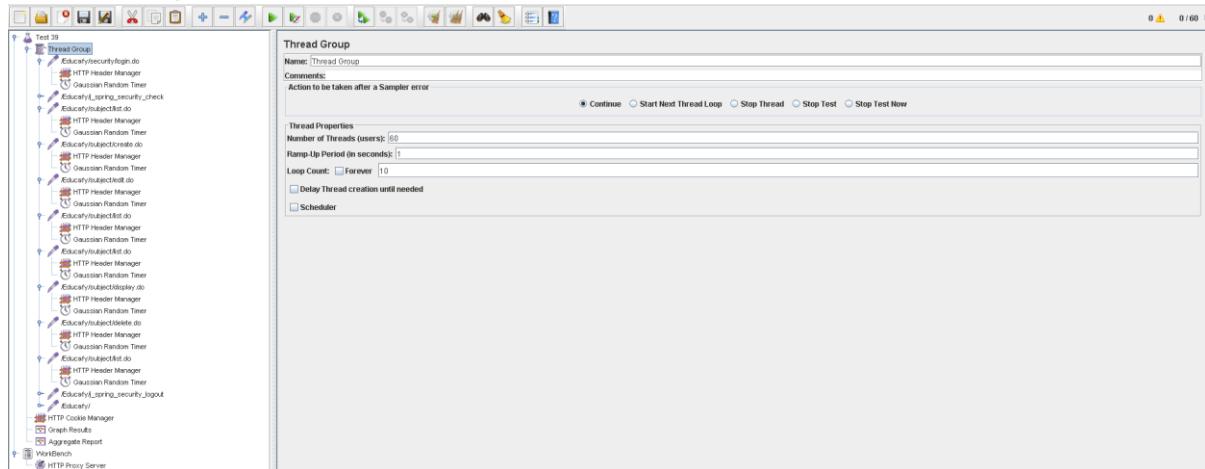
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
EducMySecurityLogin.do	500	269	22	611	6	5875	0.00%	2.8/sec	12.5
EducMy_Spring_Securi...	500	558	62	1936	11	9994	0.00%	2.8/sec	15.2
EducMySubjectVisit.do	2000	347	83	803	9	892	0.00%	10.4/sec	92.6
EducMySubjectLogout.d...	500	265	27	520	6	7142	0.00%	2.8/sec	15.1
EducMySubjectVisit.do	500	690	256	2353	20	10877	0.00%	2.8/sec	25.5
EducMySubjectDisplay...	500	271	36	561	9	6951	0.00%	2.7/sec	36.2
EducMySubjectLogout...	500	307	77	880	6	8441	0.00%	2.7/sec	8.7
EducMy_Spring_Securi...	500	498	91	1295	10	10833	0.00%	2.7/sec	12.1
EducMy...	500	87	10	124	7	4970	0.00%	2.7/sec	11.5
<b>TOTAL</b>	<b>8000</b>	<b>377</b>	<b>64</b>	<b>974</b>	<b>6</b>	<b>10877</b>	<b>0.00%</b>	<b>31.0/sec</b>	<b>248.9</b>

## Graph

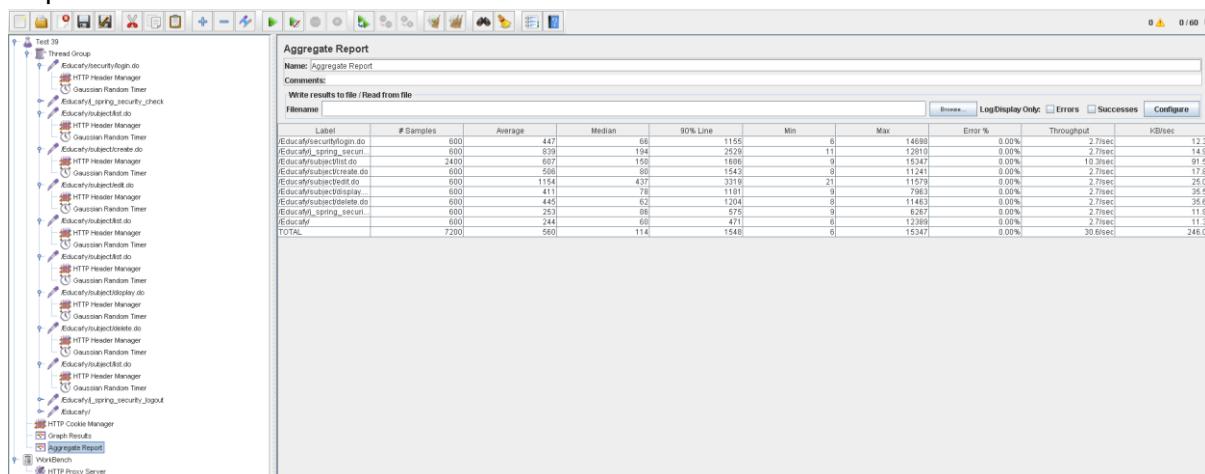


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 60 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

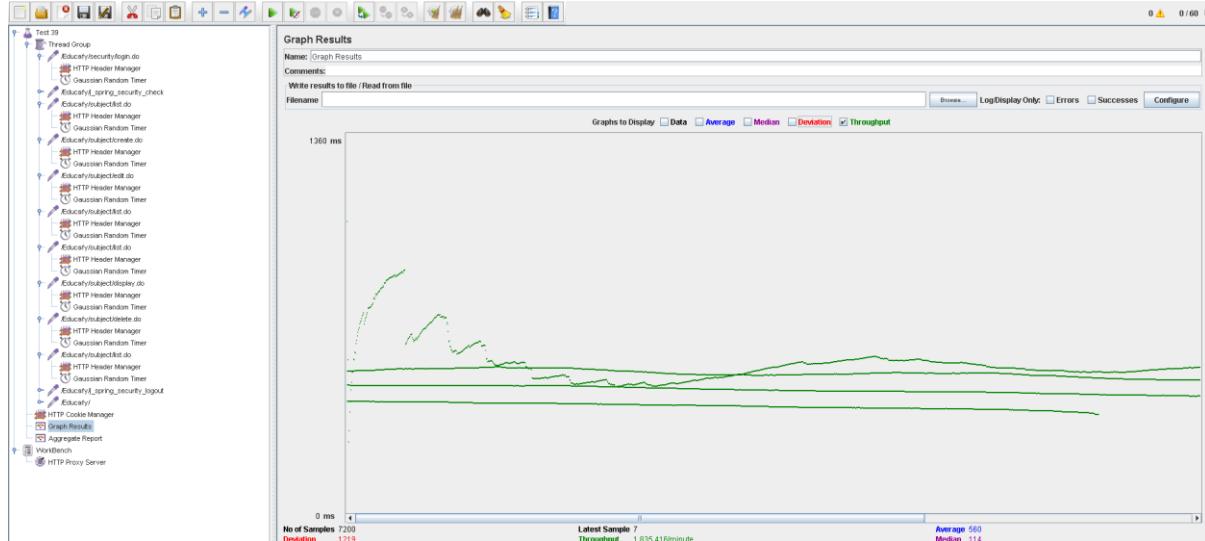
## Thread Group



## Report



## Graph



## 6.4 Listar spammers, banear un spammer y desbanear un spammer

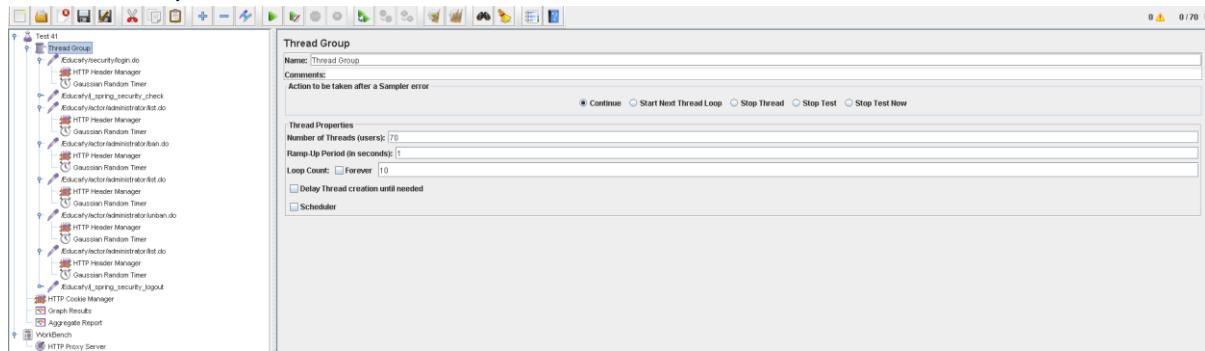
**Descripción del ordenador que ha realizado el caso de uso:**

Toshiba Satelite P50B10V:

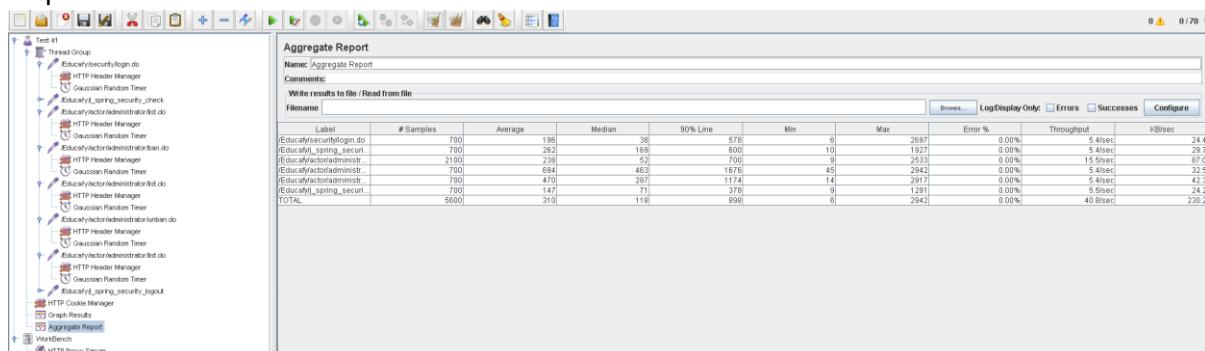
- Procesador: 2,5GHz Intel Core i7
- Memoria RAM: 8 GB

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 70 clientes.

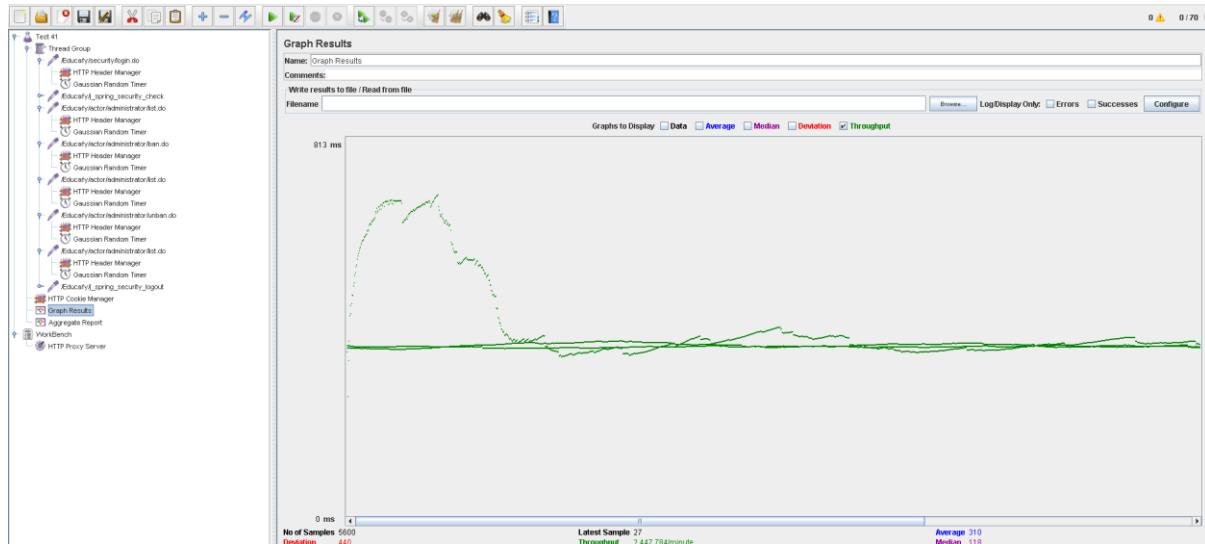
## Thread Group



## Report

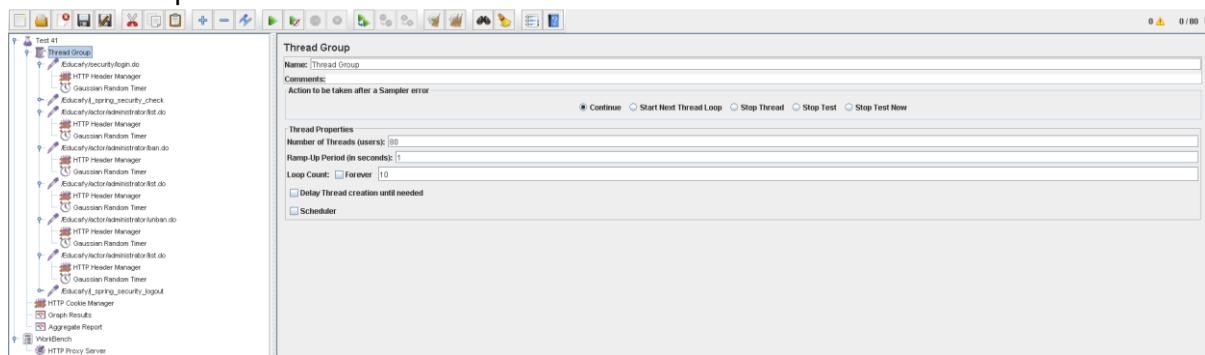


## Graph

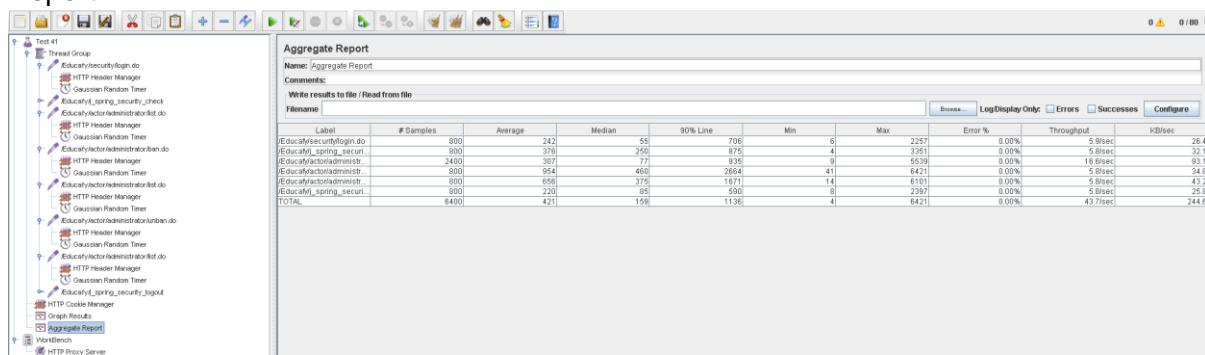


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 80 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

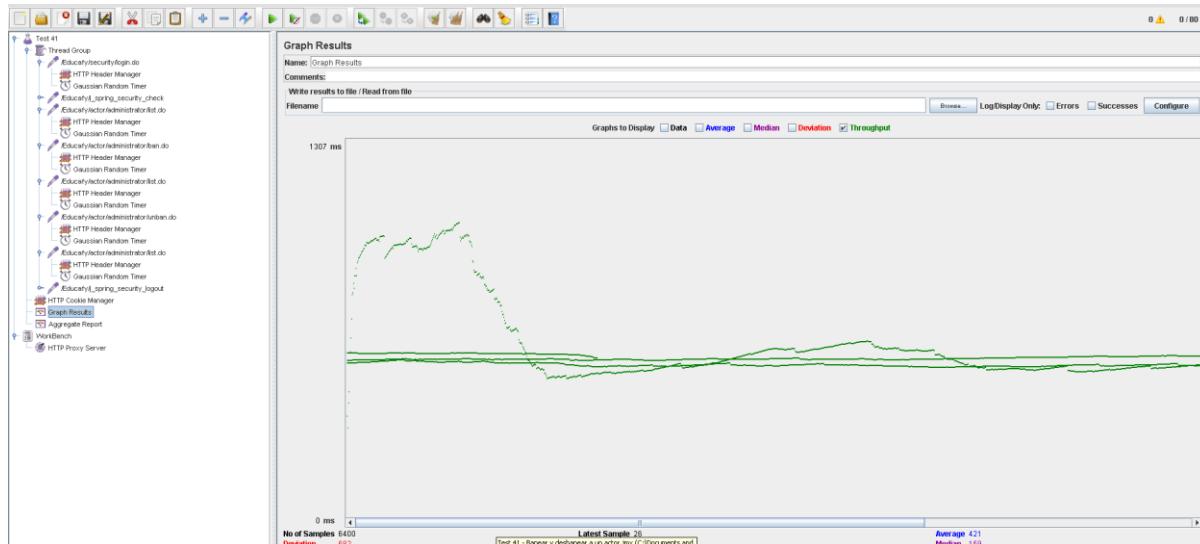
## Thread Group



## Report



## Graph



## 6.5 Enviar un difundido

**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 5 clientes.

### Thread Group

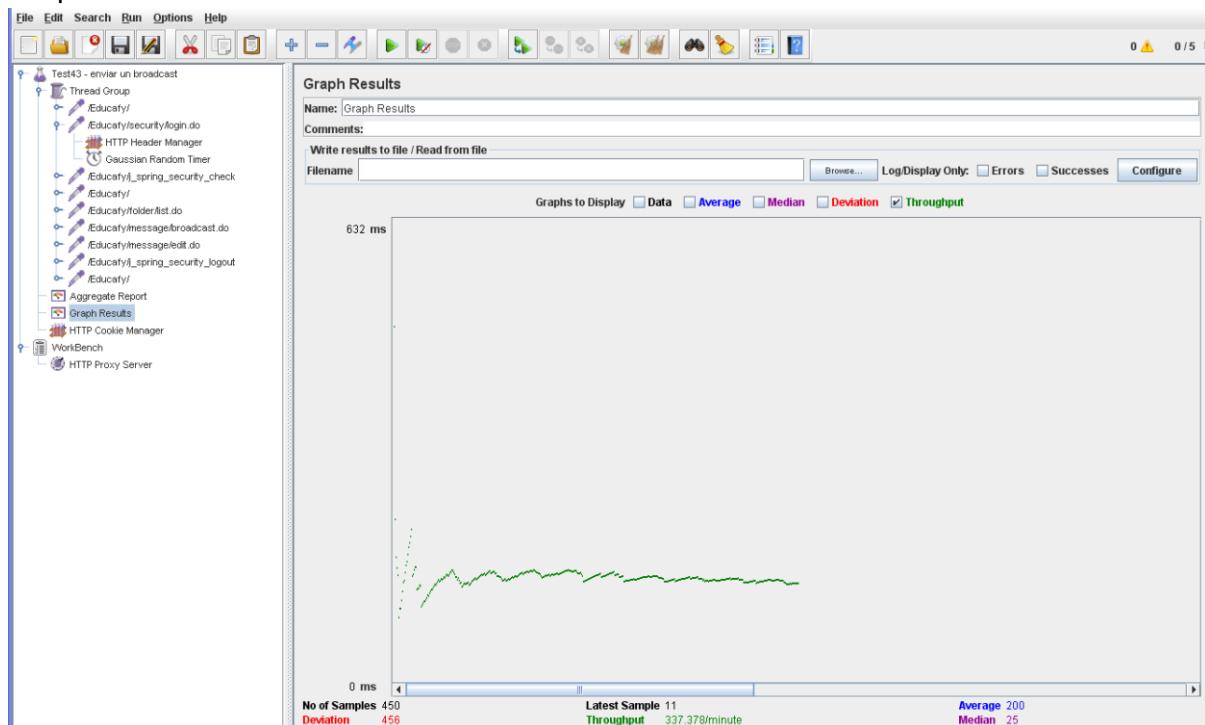
The screenshot shows the JMeter Thread Group configuration for 'Test43 - enviar un broadcast'. The 'Thread Properties' section is set to 5 threads, 1 ramp-up period, and 10 loops. The 'Action to be taken after a Sampler error' dropdown is set to 'Continue'. Other tabs like 'WorkBench' and 'HTTP Proxy Server' are visible in the sidebar.

### Report

The screenshot shows the JMeter Aggregate Report for 'Test43 - enviar un broadcast'. It displays a table of results for various samplers. The table includes columns for Label, # Samples, Average, Median, 90% Line, Min, Max, Error %, Throughput, and KB/sec. The total number of samples is 450, with an average response time of 200 ms and a median of 25 ms.

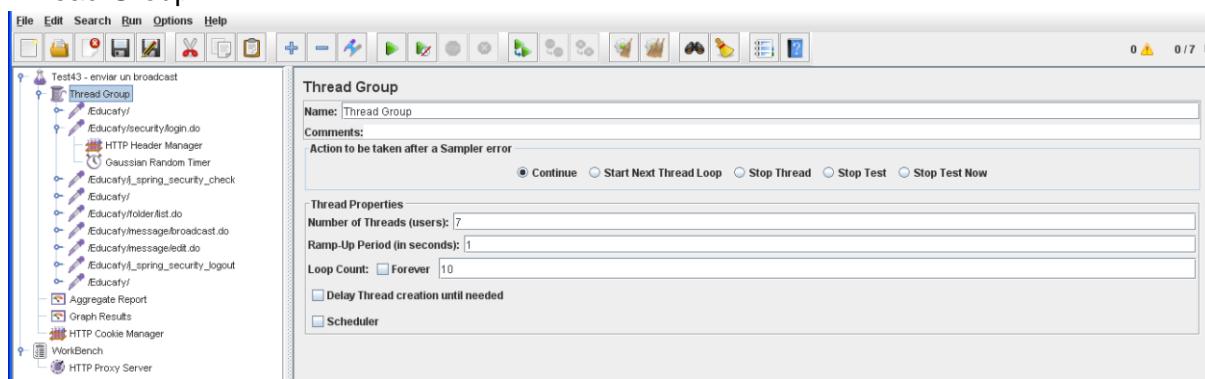
Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf/	150	23	13	40	7	308	0.00%	1.9/sec	8.4
/Educayf/security/login.do	50	66	15	205	8	416	0.00%	42.0/min	3.1
/Educayf/_spring_security_check	50	126	60	241	12	1230	0.00%	42.0/min	3.7
/Educayf/folder/list.do	50	19	16	26	12	64	0.00%	42.0/min	4.9
/Educayf/message/broadcast.do	50	95	38	130	23	1231	0.00%	41.9/min	4.6
/Educayf/message/edit.do	50	1301	1186	2220	330	2577	0.00%	40.8/min	3.6
/Educayf/_spring_security_logout	50	122	33	343	9	1401	0.00%	41.2/min	3.0
TOTAL	450	200	25	761	7	2577	0.00%	5.6/sec	29.0

## Graph

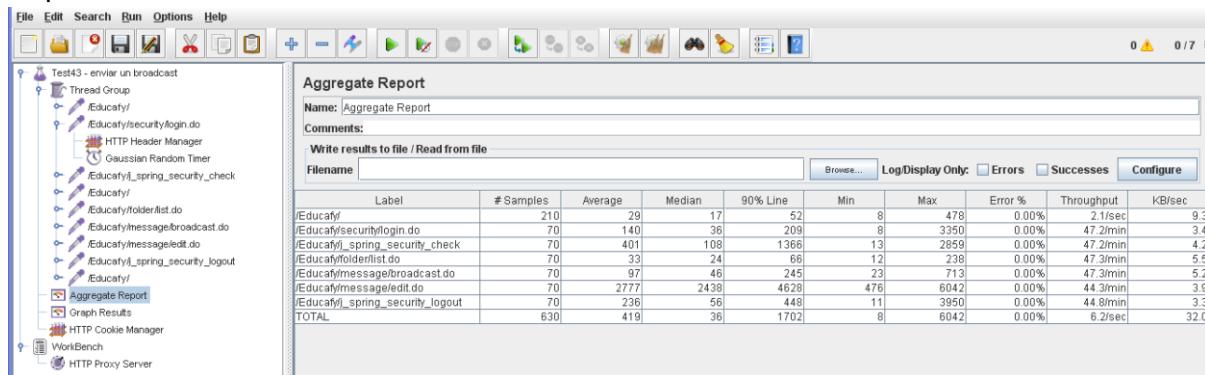


**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 7 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

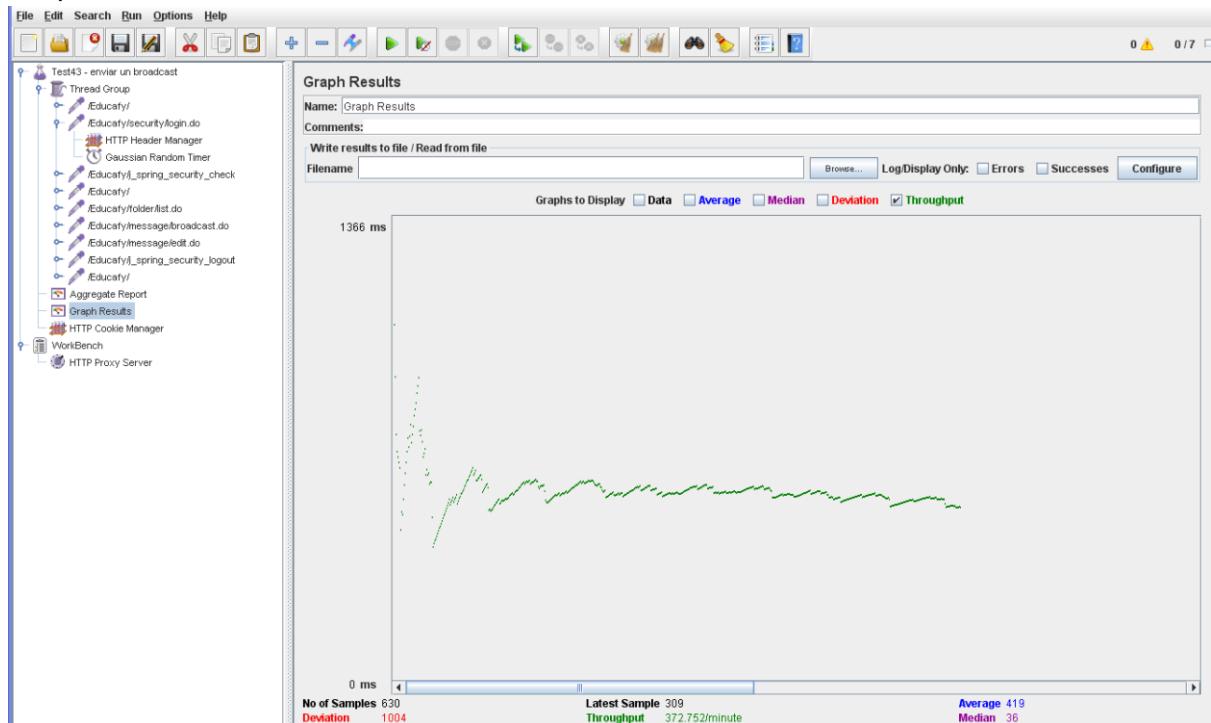
## Thread Group



## Report



## Graph



## 6.6 Mostrar dashboard y notificar una brecha de datos

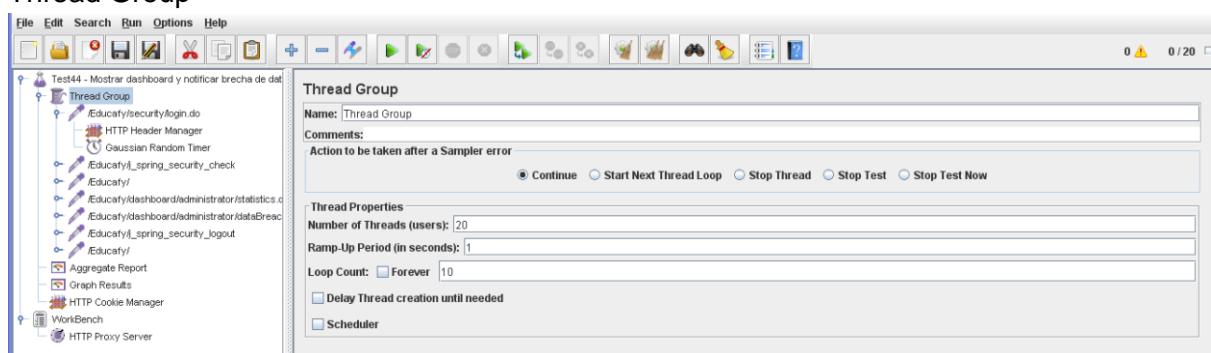
**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 20 clientes.

## Thread Group



## Report

File Edit Search Run Options Help

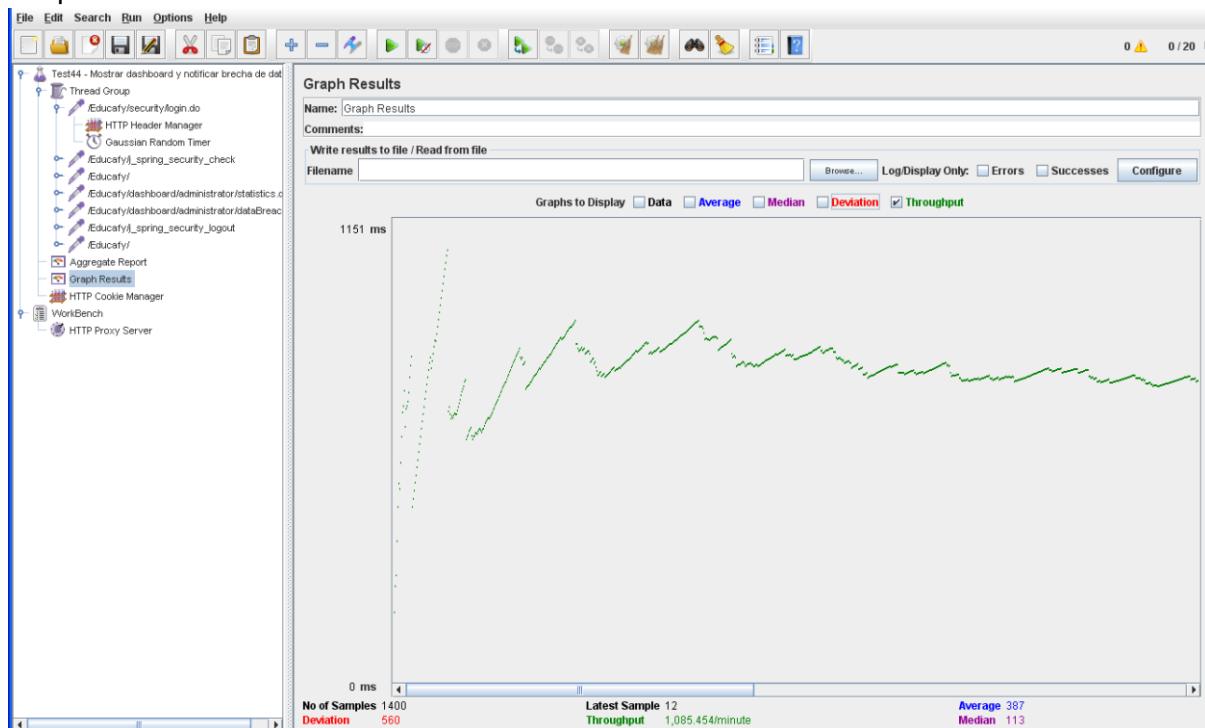
Aggregate Report

Name: Aggregate Report  
Comments:

Write results to file / Read from file

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
Educafyl_securi...	200	333	98	1113	7	2656	0.00%	2.8/sec	12.3
Educafyl_sprin...	200	441	132	1347	10	2453	0.00%	2.8/sec	14.8
Educafyl	400	121	23	302	6	1890	0.00%	5.3/sec	24.5
Educafyl_dashb...	200	489	175	1527	22	3110	0.00%	2.8/sec	24.1
Educafyl_dashb...	200	865	689	1726	117	2747	0.00%	2.8/sec	29.5
Educafyl_sprin...	200	341	158	1162	9	1788	0.00%	2.8/sec	12.1
TOTAL	1400	387	113	1232	6	3110	0.00%	18.1/sec	110.6

## Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 30 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

## Thread Group

File Edit Search Run Options Help

Thread Group

Name: Thread Group  
Comments:

Action to be taken after a Sampler error:

• Continue    ⚡ Start Next Thread Loop    ⚡ Stop Thread    ⚡ Stop Test    ⚡ Stop Test Now

Thread Properties

Number of Threads (users): 30  
Ramp-Up Period (in seconds): 1  
Loop Count: ⚡ Forever 10  
Delay Thread creation until needed  
Scheduler

## Report

File Edit Search Run Options Help

Aggregate Report

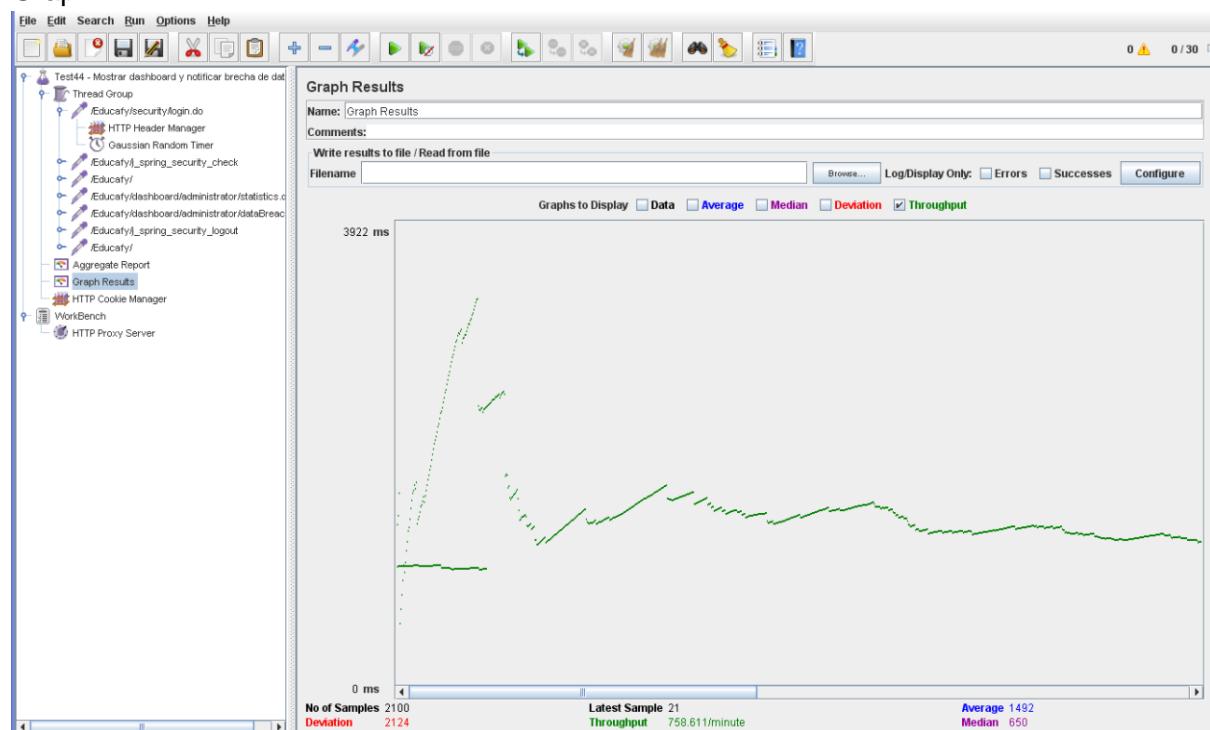
Name: Aggregate Report  
Comments:

Write results to file / Read from file

Filename  Browse... Log/Display Only  Errors  Successes  Configure

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educayf/security/login.do	300	1288	528	3531	6	10973	0.00%	1.9/sec	8.5
/Educayf/_spring_security_check	300	2016	1055	5554	9	10966	0.00%	1.9/sec	10.2
/Educayf/	600	712	83	2491	5	13480	0.00%	3.6/sec	16.9
/Educayf/dashboard/administrator/statistics.do	300	1625	408	5479	19	12685	0.00%	1.9/sec	16.3
/Educayf/dashboard/administrator/dataBreach.do	300	3001	2208	6606	113	13191	0.00%	1.9/sec	19.9
/Educayf/_spring_security_logout	300	1091	630	2675	9	8415	0.00%	1.9/sec	8.2
TOTAL	2100	1492	650	4365	5	13480	0.00%	12.6/sec	77.4

## Graph



## 6.7 Editar los parámetros del sistema

**Descripción del ordenador que ha realizado el caso de uso:**

MacBook Pro:

- Procesador: 2,3GHz Intel Core i5
- Memoria RAM: 8 GB 2133 MHz LPDDR3

**Caso Positivo:** El sistema, en este caso, es capaz de soportar 10 clientes.

### Thread Group

The screenshot shows the JMeter interface with the 'Thread Group' tab selected. The left sidebar lists test elements: 'Test45 - editar los parametros del sistema', 'Thread Group', 'HTTP Header Manager', 'Gaussian Random Timer', 'Educacyl\_spring\_security\_check', 'Educacyl', 'Educacyl\_configurationParameters/administrator/edit.do', 'Educacyl\_configurationParameters/administrator/edit.do', 'Educacyl\_welcome/index.do', 'Educacyl\_spring\_security\_logout', 'Educacyl', 'Aggregate Report', 'Graph Results', 'HTTP Cookie Manager', 'WorkBench', and 'HTTP Proxy Server'. The main panel displays the 'Thread Group' configuration with the following settings:

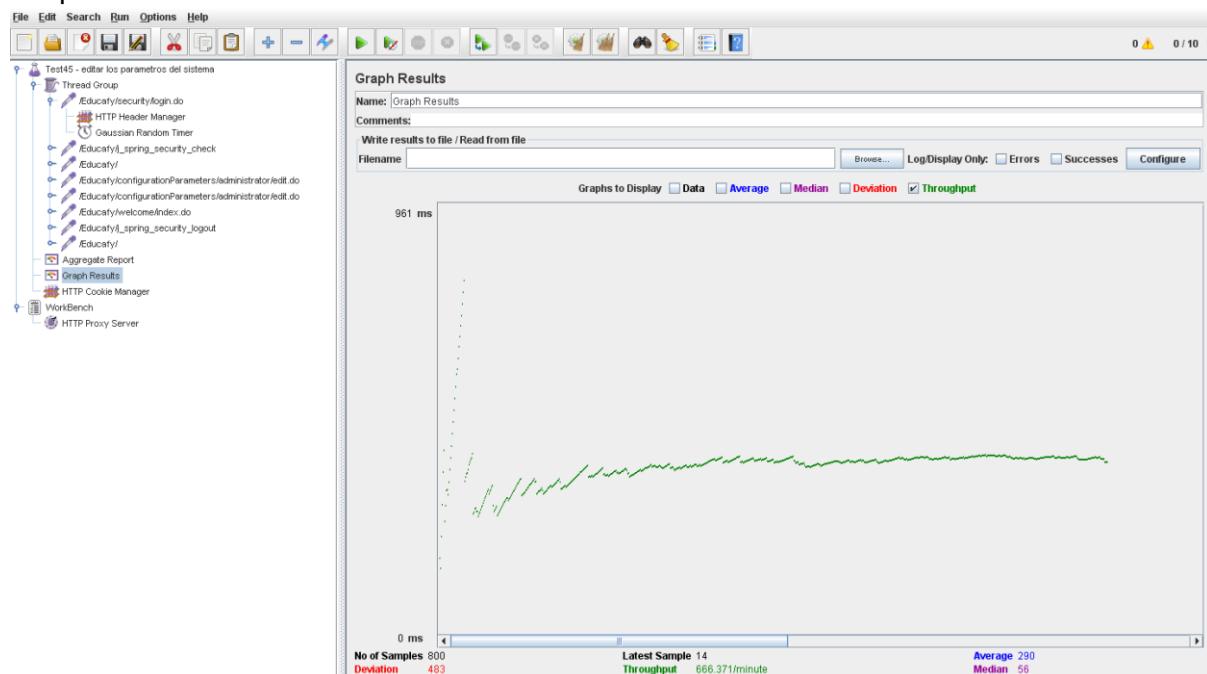
- Name: Thread Group
- Comments: Action to be taken after a Sampler error
- Number of Threads (users): 10
- Ramp-Up Period (in seconds): 1
- Loop Count: Forever 10
  - Delay Thread creation until needed
  - Scheduler

### Report

The screenshot shows the JMeter interface with the 'Aggregate Report' tab selected. The left sidebar lists the same test elements as the Thread Group. The main panel displays the 'Aggregate Report' results table:

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	K/sec
[Educacyl]/security/login.do	100	277	155	706	5	1650	0.00%	1.5/sec	6.5
[Educacyl]/spring_security_check	100	457	365	1099	10	2534	0.00%	1.5/sec	7.9
Educacyl	200	54	10	160	5	540	0.00%	2.9/sec	13.1
[Educacyl]/configurationParameters/administrator/edit.do	200	609	339	1539	7	3441	0.00%	4.9/sec	49.3
[Educacyl]/welcome/index.do	100	110	12	397	4	859	0.00%	1.5/sec	7.7
[Educacyl]/spring_security_logout	100	152	37	395	8	1227	0.00%	1.5/sec	6.5
TOTAL	800	290	56	860	4	3441	0.00%	11.1/sec	86.7

### Graph



**Caso Negativo:** El sistema, en este caso, no es capaz de soportar 20 clientes, ya que supera los 3 segundos (2550 ms en el 90% line), tiempo que hemos estimado para que una request haga su acción indicada.

### Thread Group

File Edit Search Run Options Help

Test45 - editar los parametros del sistema

- Thread Group
  - /Educacy/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educacy\_spring\_security\_check
  - /Educacy/
  - /Educacy/configurationParameters/administrator/edit.do
  - /Educacy/configurationParameters/administrator/edit.do
  - /Educacy/welcome/index.do
  - /Educacy\_spring\_security\_logout
  - /Educacy/
- Aggregate Report
- Graph Results
- HTTP Cookie Manager
- WorkBench
- HTTP Proxy Server

Thread Group

Name: Thread Group

Comments:

Action to be taken after a Sampler error

• Continue   ○ Start Next Thread Loop   ○ Stop Thread   ○ Stop Test   ○ Stop Test Now

Thread Properties

Number of Threads (users): 20

Ramp-Up Period (in seconds): 1

Loop Count:  Forever 10

Delay Thread creation until needed

Scheduler

0 0 / 20

### Report

File Edit Search Run Options Help

Test45 - editar los parametros del sistema

- Thread Group
  - /Educacy/security/login.do
  - HTTP Header Manager
  - Gaussian Random Timer
  - /Educacy\_spring\_security\_check
  - /Educacy/
  - /Educacy/configurationParameters/administrator/edit.do
  - /Educacy/configurationParameters/administrator/edit.do
  - /Educacy/welcome/index.do
  - /Educacy\_spring\_security\_logout
  - /Educacy/
- Aggregate Report
- Graph Results
- HTTP Cookie Manager
- WorkBench
- HTTP Proxy Server

Aggregate Report

Name: Aggregate Report

Comments:

Write results to file / Read from file

Filename: [ ]

Browse... Log Display Only Errors Successes Configure

Label	# Samples	Average	Median	90% Line	Min	Max	Error %	Throughput	KB/sec
/Educacy/security/login.do	200	569	302	1209	5	7712	0.00%	1.9/sec	8.6
/Educacy_spring_security_check	200	745	604	1687	9	5415	0.00%	1.9/sec	10.3
/Educacy/	400	255	23	670	4	5409	0.00%	3.6/sec	16.7
/Educacy/configurationParameters/administrator/edit.do	400	1636	850	4358	7	9114	0.00%	3.7/sec	62.2
/Educacy/welcome/index.do	200	488	146	1498	4	4486	0.00%	1.9/sec	9.6
/Educacy_spring_security_logout	200	908	441	2643	7	5573	0.00%	1.9/sec	8.2
TOTAL	1600	811	319	2548	4	9114	0.00%	14.3/sec	111.2

0 0 / 20

### Graph

