- Performance Test and
- System Monitoring

## **Performance Test**

LUCY is designed to work with over 100 K parallel recipients on one instance. This will require a hardware with sufficient RAM & CPU. If you are not sure if your hardware meets the campaign requirements you can run the build in test module. It allows you to run a performance test in order to verify if your hardware can handle the amount of recipients. It will also check the Campaign Settings.

Campaigns Income In	Support -
/ Campaigns	Status
Gambridio	Manual
npaigns	Changelog npaign +
	Test email
4.0 1	Performance Test
	System Monitoring Spam Test

Once the test has finished, you can see the detailed report which will tell you, how many recipients your sever is able to handle within reasonable time frames.

Perf	► Start Test			
<ul> <li>Hits</li> <li>Visit</li> <li>(ima</li> <li>Recland</li> </ul>	47 — the maxim tons: 78.33* — vi iges, scripts and ipients: 4700* — ing page within	altors at the same my CSS files). recommended limit 1 hour, each user will	ument connections your server supports, orient on the website, assuming that and of recipients in all running campaigns at	keeping the response time within 15 seconds limit. Is user will perform 1 page load per 10 seconds, each page containing references to 5 static files the same time, assuming that: you will send out emails to all recipients at once, they all will visit th ces to 5 static files (images, scripts and CSS files). Setting up a delay between outgoing emails will be
		Search and a search and a search	a year running campaign may differ from	
	ed Result	5		
Hits	Visitora	Recipienta	Response Time (sec.)	Response Time
Hits 1	Visitors 1.67	Recipients	Response Time (sec.) () 42	Response Time
	1.100	147314		
1	τ.67	100	0.42	20 15
1	1.67 3.33	100 200	0.42	20
1 2 4	1.67 3.33 6.67	100 200 400	0.42 0.55 1.29	20 15
1 2 4 8	1.67 3.33 6.67 13.33	100 200 400 800	0.42 0.55 1.29 2.51	20 15
1 2 4 8 16	1.67 3.33 6.67 13.33 26.67	100 200 400 800 1600	0.42 0.55 1.29 2.51 5.26	20 15
1 2 4 8 18 32	1.67 3.33 6.67 13.33 26.67 53.33	100 200 400 800 1600 3200	0.42 0.55 1.29 2.51 5.26 9.75	
1 2 4 8 18 32 30	1.67 3.33 6.67 13.33 26.67 53.33 55.33	100 200 400 800 1600 3200 3500	0.42 0.55 1.29 2.51 5.26 9.75 10.07	20 15
1 2 4 8 16 32 35 35 35	1.67 3.33 6.67 13.33 26.67 53.33 55.33 55.33 65.33	100 200 400 800 1600 3200 3500 3600	0.42 0.55 1.29 2.51 5.26 9.75 10.07 10.09	
1 2 4 8 16 32 35 35 35 41	1.67 3.33 6.67 13.33 20.67 53.33 55.33 55.33 65.33 65.33	100 200 400 800 1600 3200 3500 3600 4100	0.42 0.55 1.29 2.51 5.26 9.75 10.07 10.99 11.85	20 15 16 5 0 -5 1 2 4 5 15 22 15 55 4) 44 47 50 <b>Propose Time</b>

**Note**: A test can run for more than 20 minutes - so be patient and don't use the LUCY server in this time period.

## **System Monitoring**

Beside the performance test which allows you to verify that your hardware is sufficient for a planed campaign you can also monitor the hardware performance in real time under /admin/help/resources.

ATLS Campages too	ana tanga -	Support -	<b>1</b> -
Home / Help	Status		
System Mon	Manual Changelog		
Interval	5 minutes	Test email Performance Test	~
Current Resources	CPU: <b>39.00%</b> RAM: <b>85.00%</b> RAM Without Cache:	System Monitoring	
Usage		Spam Test	
		Backups Migration Tool	Resour

On the System Monitoring page you also can to clean up Lucy from unnecessary or unused data:

Disk Usage	
sed: 4.59 Gb, Available: 31.34 Gb	
13%	
olders	Database
attachment-templates 728K	Clear Deleted Campaigns Count: 5
awareness-templates 830M	Clear Deleted Recipients Count: 4
scenario-templates 1.1G	Clear Database
db-backups 8.3G	Clear
campaigns 455M	Clear
incidents 6.5M	Clear
Invoices 20K	Clear
tmp 12K	Clear

## Please note that:

- cleaning templates, campaigns, etc. will delete all downloaded or created templates, campaigns, etc. and its files and related database records
- cleaning db-backups will delete all database backups from the Lucy server. It is a relatively safe action, because Lucy creates database backup daily
- Clear Database button will delete all campaigns and recipients that earlier have been deleted from the Lucy panel (in fact, deleting campaigns or recipients in the Lucy panel do not delete related database records, its only marked as 'deleted')
- Clear button opposed to **incidents** will delete thumbnails and attachments of the reports which take most of the disk space. The reported email itself is stored in the database and will still appear under the **Incidents** tab.

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