LUCY can create a phishing campaign that simulates an attack using a malicious Word document file with a macro. The custom Macro with the according campaign settings is compiled during the campaign. Therefore each Word file for each recipient will have different settings.

# **Available Macro File Templates**

LUCY comes with multiple Macro simulations:

- Macro Simulation "Financial Bonus": This Macro simulation will access the command shell of a windows system and execute some commands (can be configured in the according template) and then use the browser to send back the output of those commands. Please note that this type of Macro that tries to access the client's file system is often detected as malicious in antivirus solutions.
- Macro Simulation "POST ONLY": It will do a simple http or https connection back to LUCY upon opening which will notify the LUCY administrator that the word has been opened and the Macro has been activated. The Macro can be used in any file-based or mixed attack scenarios either as a mail attachment or as a file that can be downloaded from a landing page created by LUCY.
- Macro Simulation "GET ONLY": This Macro simulation is working in LUCY 4.6 and newer. This macros template just pings back to Lucy when the user opens the document, without sending and collecting any data. "Get" template can be an alternative to "Post" request in campaigns where you need to check only the fact of opening a file. *Note:* In the campaign settings for the "Get" macro, you need to select type "Click" in "Success action" for a correct statistic.

Please note, that those are only two samples. **You can create your own template**. Please check the tutorial at the bottom of this page.

# Configuration

After the login, you can create your first phishing campaign by pressing the button "**New campaign**". We recommend using the Setup Wizard when used for the first time.

Home / Campaigns					
Campaigns	New campaign   +	Export - Select	Actions •	O Dashboard •	Add Widget +
Search					۹

# STEP 2 - Select or Create a Client

Create a client or choose the built in the client (a client can be your own organization or the company who asked you to perform a phishing test). This is important because you can also create view only

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accounts which are associated with those clients.

Home / Campaigns / New Campaign			
New Campa	Campaign Status Not	Started	
New Campaign	Name Client Setup Mode	Your Software Name Phishing Campaign Lucy Test Please select Lucy Test Start with Predefined Campaign Template  Start with Default Campaign Template	<b>v</b>
	Industry Notes	Mail & Web Test  N/A	<b>•</b>
		Enduser Profiles Enabled     Track Responses	
		Email Tracking 8	

New clients can be created under **Settings>Clients**.

ATLS Companyon Andreas	Settings -	L.
Home / Clients	Tergates 1	
Oliverte	Benchmark Sectors	Help
Clients	Damana	Create your clients by press
Client	Cynamic 240	\$
Lucy Test	Adapt Authoring Toolket	×
« 1 »	Clients Clien	nts 10 V

## **STEP 3 - Choose Your Configuration Mode**

You may either continue with the **Expert Setup** or a **Start with predefined campaign Template** configuration.

2024/04/18 15:59	3/12		Introduction LUCY Macro Simulation
Home / Campaigns / New Campaign			
New Campa	Campaign Status Not	Started	
New Campaign	Name	Your Software Name Phishing Campaign	
	Client	Lucy Test	~
	Setup Mode	Expert Setup (Manual Configuration)     Start with Predefined Campaign Template	
		<ul> <li>Start with Default Campaign Template I</li> <li>Mail &amp; Web Test I</li> </ul>	

Sometimes a remote Firewall, Spam filter or Virus Filter might automatically scan all the URL's within a link. As a result, you end up with false positives and LUCY will show all link clicked (success). To avoid such automatic link requests by some 3rd party application you can enable the antivirus/firewall protection and LUCY will ignore all GET requests for the first 30 or 60 seconds:

Home / Campaigns / LucyTes	st / Base Settings		
LucyTest	Campaign Status Not	Started	
Results	Name	LucyTest	
Summary	Client	Lucy Test	~
Statistics Reports	Industry	N/A	~ <b>0</b>
Exports	Notes		
Configuration			
Base Settings		Enduser Profiles Enabled	
Recipients		Track Responses 🛛	
Advanced Settings		Email Tracking	
User Settings Custom Fields	Antivirus/Firewall Protection Interval	30 seconds	~ 0

### STEP 4 - Select a Phishing Template that supports Macro's

Now you need to select one or multiple phishing scenarios that support Macro's (make sure you have downloaded all the latest scenarios first). Please check out what different scenario types are available. A Macro attack is a file-based attack simulation. Therefore, you can only use the following template types:

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- File Based Templates
- Mixed Templates
- Portable Media Attack Template

Most templates will enable you to place the Macro on a landing page from where it can be downloaded. If you only want to send the file as a mail attachment without involving a landing page you can choose the file based scenario "Financial Bonus (Word Macro in email Attachment)":

	Financial Bonus 1.1 (eMail attachment only) This is a file-based only scenario withou gets executed, it will complete a few con https://goo.gl/fl05SL	ut a landing p		Marcos. When the macro
15.11.2018 18:07:53		Edit	Preview Message -	Preview Lure -

This is an email only template that will send the users an email with a Word document file attachment that contains a macro. The macro has the ability to execute a list of harmless commands (e.g. "whoami") and send the output back to LUCY using the built in browser (HTTP). The commands can be configured with the email settings. You may also leave a copy of the output on the Desktop of the user (a text file called lucy\_results.txt). If you don't wish to leave any traces, you can select "Delete Temporary File" in the Macro options. **Please note:** at the bottom drop-down menu you can still switch between the different file templates and have the ability to pick a different Macro simulation (e.g. "POST ONLY", which most likely will generate less alerts on a possible AV solution).

	Bit/les       *       Format       *       Font       *       Size       *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *       A *
	.⊿ @ Preview
	@ Pleview
Embedding Type	Embedded Images
Malware Simulation	
Template	Macros (POST-only)
Description	N/A Macros (GET-only) e document, without collecting any data.
▲ Attachments	Macros (POST-only)
	Macros (POST-only)
Embedded	Macros (POST-only)
Images	Macros (POST-only)
Attachments	Macros (POST-only)
ALLECTION	Macros (POST-only)

For this tutorial, as an example, we select the Mixed Template "Confirmation Social Media Profile ", where the user will be asked to download a CV that contains a Macro.

**Note:** If you attach an Office file to an email there is a much higher chance it will get filtered opposite to campaigns, where the Office File has to be downloaded from a web page. The "POST ONLY" Macro has the highest chance of not getting filtered as it is not accessing the local file system from the tested target.

#### STEP 6 - Configure the Base Settings of Your Campaign

Once you have selected the scenario, you need to configure the **Base Settings** of the campaign. First, give your campaign a name and then choose how your recipients will be able to access LUCY by defining the Domain. Finding the appropriate domain name is a very important step for the success and it depends very much on your campaign scenario. If you plan to create a fake web mail login you might try to reserve a domain like "webmail-server365.com" and point it to LUCY.

New Scenario	Template	Financial Bonus 1.1 (eMail attachment only) / 🛄 English & Change/Select Template	
	Name	LucyTest	
	Landing Domain	System Domain Note: Currently, there are no domains configured in Lucy. You can point your existing domain to this server and save the domain here or you can start the	0
	Custom Domain	Your Software Name Domain Registration Wizard 192.168.60.146 Track Opened Emails	0
		Disable Landing Send Link to Awareness Website Automatically Advanced Information Gathering	
	Success Action	Click	•
	Collect Data	Full	•
		🗌 Double Barrel Attack 🛛	
	URL Shortener	N/A ~	]
	Redirect URL		0
	File Type	N/A 🗸	1

**Note**: Each scenario has its own Base Settings.

# **STEP 7 - Configure Basic Settings**

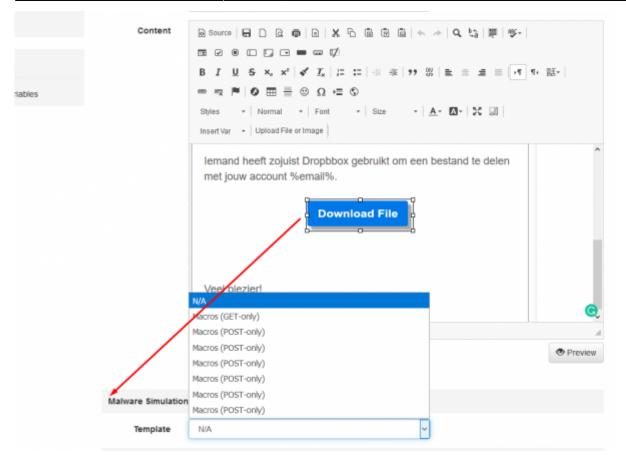
There a few **Optional Settings** that you can apply within the Base Settings. Lucy comes with certain Default Settings. You can change these setting as you like. The settings are:

- **Track Opened Emails**: Inserts an invisible image into outgoing emails to track if users opened the message. Use this feature carefully, as some email servers may put such emails into the spam folder.
- **Disable Landing**: Check to disable landing page for this scenario.
- Send Link to Awareness Website Automatically: Send a link to the Awareness Website after the user has been successfully attacked. Please note that the Awareness Website should be published for this feature to work.
- Advanced Information Gathering: Check this option to enable advanced visitor information gathering More details can be found here: Advanced information gathering
- **Success Action**: Defines what LUCY considers as a successful attack. There are four options.
- **Collect Data**: Choose "Full" if you want to record all entered logins and passwords, "Partial" to record only the first 3 letters (remaining letters will be masked with asterisks) or "No" to skip user data collection.
- **Double Barrel Attack**: When using Double Barrel Attack, the system first sends a "Lure" email containing some teaser text. After that, the system waits for a while (you can configure that time in settings below) and sends an actual phishing email. The "Lure" delay defines, in seconds, the time frame between the Lure and the attack emails for a Double-Barrel Attack.
- **URL Shortener**: When you place the %link% variable within the message body and your scenario uses a public domain name, it will automatically be shortened. The link will look like "http://is.gd/9VjDKF" to fit into one text message. If you use an IP address for your landing page the link will be not shortened.
- **Redirect URL**: This is used for hyperlink based scenarios or within a landing page to redirect to an awareness page.
- **File Type**: In this drop-down list you can select the type of file that will be attached to the email.

## STEP 8 - Edit your Landing Web Page within Your Campaign

After saving the Base Settings, you can now Edit the Landing Page, Upload Your Own Webpage or simply copy any website on the internet. The Landing Page is the webpage that the users will see when they click on the link in the email they receive. First, select the drop-down menu at the top the page where you want to edit. Please note that the same landing page may be available in different languages. So make sure you edit the correct language.

As we want to include a download to a Macro we need to make sure the Macro is selected at the bottom of the configuration page. This drop-down menu will tell LUCY what malware simulation should be attached to the download bottom on this page:



If you save the landing page with the settings displayed in the screenshot above LUCY will create a Word file for each user which can be downloaded from the phishing simulation.

## STEP 9 - Configure Message Settings (Email or SMS)

It's time to setup email communication (if you want you can also use SMS as an alternative). Choose your sender's name, email address and subject. Please also choose the language for each group. If you configured an English landing page, then select English also within that recipient group. If you have different groups with different languages within your company you can simply create a group and select a language for each recipient. LUCY then will direct each user to an individual landing page that matches that language. Please read the Mail Settings Chapter for more configuration options.

Summary	Message Type	Email	~
Scenario Settings	Language	English	~
Landing Page Template	Sender Name	Tester	1
Message Template	Sender email	support@lucysecurity.com	0
Errors	Recipient Header	То	~
Quick Tips	Fake CC	0	
Email message variables	Subject	Support	
	Content	<ul> <li>B Source</li> <li>B I U S ×, ×<sup>1</sup></li> <li>I I U S ×, ×<sup>1</sup></li> <li>I I I S ×, ×<sup>1</sup></li> <li>I I I S ×, ×<sup>1</sup></li> <li>I S ×<td>④ ④ ● 39 ○ ● 章 章 章 ■   -5 56 ○話•  </td></li></ul>	④ ④ ● 39 ○ ● 章 章 章 ■   -5 56 ○話•
		Dear %name%, You have received an encrypted message with "Micros based mail platform "Secc-Mail" under the following <u>in</u>	oft Office 365 Cloud Services." You can access it using our new
		Sandra Smith IT Exchange Team / EMEA	

**Note**: The most common reason for emails not arriving at your Recipient's Inbox are SPAM filters. When using a known email domain (e.g. test@microsoft.com) or a non-existing email domain (e.g. test@nonexistant.com) your email might get deleted by SPAM filters. Some public email providers (like Gmail, Hotmail, etc.) are very restrictive concerning possible SPAM emails and might not even forward emails to your Recipient's SPAM folder (based on the emails SPAM reputation). To verify this you can use LUCY's built in SPAM Checker.

### **STEP 10 - Add recipients**

ATLS Campages books	Settings 🕶	1.
Home / Recipients	Templates	•
Desistente	Benchmark Sectors	
Recipients	Domains Dynamic DNS	
Recipients	Adapt Authoring Toolkit	
Custom Fields	Recipients	
	Clients	
	End Users	

You need to create the Recipients List in the Menu item "Recipients".

This is the list of users that will get the phishing emails. You can add them manually, import a file with

all your recipients or even search them on the internet. Once you have created that group, you can select it in your campaign and map them to a specific scenario. You can also define if they should be used only for the Landing Page link, the Awareness site link (e-learning) or both.

LucyTestMa	Campaign Status Not Started
Results	Group Get - Recipient Group ~
Summary	Search by recipient name, email, phone, staff type, location, +
Statistics	Q Search C Reset
Reports	🗹 Name 🔶
Exports	☑ 1439a2a6a4@domain.tld/+1111111111 File 1 N/A N/A N/A N/A N/A N/A
Configuration	¢
Base Settings	10
Awareness Settings	
Schedule	Mapping Campaign + Awareness ~
Recipients	Distribute users over selected scenarios.
Advanced Settings	Scenarios 🗵 Select All
aranees eetange	LucyTestMacro - Scenario Encrypted Mail (Download Only) (File-Based)
User Settings	Save
Custom Fields	
Deminders	

Please read the Recipients Settings Chapter for more configuration options.

### **STEP 11 - Add Scheduling Options to Your Campaign**

If you want, you can create a schedule to run the campaign using a delay or customized time delays between campaign phases. If you are new to the system, we'd recommend that you go with the Default Timing Settings and skip this step. Please read the Schedule Settings Chapter for more configuration options.

#### Step 12 - Add E-learning Content to Your Campaign

There is the option to have LUCY automatically send some e-learning content to all users or only users who have failed the phishing test. This configuration setting is part of an Separate Chapter (E-learning). If you want the users to get an e-mail with a link to the awareness content, you need to make sure that in "STEP 7 - Configure Basic Settings" the checkbox "Send Link to Awareness Website Automatically" is selected and you configured an awareness template (mail and optional landing page). It is also important that you define what you consider as an successful attack because only those who have been successfully tested will receive the mail. If you don't want the e-learning content to be delivered via mail you can also redirect the user directly to a landing page with the awareness content.

### Step 13 - Start Your Campaign

Now you are ready to start. Although we recommend performing a test run with a single recipient before you start attacking all users, additionally it is a good idea to use the LUCY SPAM Checker. Just click "Real Attack" and LUCY will test your settings before starting the campaign. If you want to skip the checks, press "Skip Checks". Your first recipients should receive the emails within seconds. Please read the Start Campaign Settings Page for more configuration options. If you experience any problems with starting/running your campaign, please Consult the Troubleshoot Section first.

LucyTestMa	Campaign Status Not Started	C Reset Stats Report	M Save as Template	Export - Start -
Results	Campaign	Running Time	(	Start Created By Restart
Summary	LucyTestMacro	Not running	det	Resume Test Ru
Statistics	Attack Overview			lest hu
Reports	$\sim$	$\frown$		$\sim$
Exports		› ( · )	> (	
onfiguration	$\bigcirc$	$\cup$		
	Highcharts.co		Highcharts.com	Highcharts.com
Base Settings	0 messages sent	0.00% of recipients clicked th	he link 0.00% of	attacks are successful

#### Step 14 - Monitor Your Campaign

The progress of the campaign can always be monitored in Real-Time. Click "Statistics" within your campaign. Please read the Statistics Chapter for more configuration options.

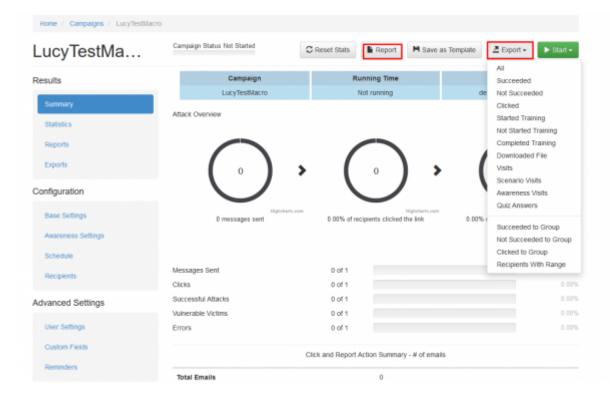
ucyTestMa	Campaign Status Not Started	Generated: 07.08.2019 11:23:40 C	Summary Chart +	Add Chart
sults				
Summary	$\bigcap$	$\frown \bigcirc$		
Statistics	( ∘ ) <b>&gt;</b> (	• <b>)                                   </b>	) <b>&gt; (</b> •	)
Time		$\bigcirc$		
Technical Stats	Highcharts.com 0.00 % messages sent 0.00% o	f recipients reported the 0.00% of recipients clicked	harts.com dithe link: 0.00% of attacks	Highcharts.com are successful
Categories		message		
-				
Events		Total Stat 😡		
Events Countries		Total Stat 🖌		
		Total Stat		
Countries	0	Total Stat		
Countries Top Worst	0	Total Stat		
Countries Top Worst File Downloads	0 Sent Clicks Success	ful Reported Invalid Vulnerable	Replied Bounced	Out of Office
Countries Top Worst File Downloads Collected Data	0 Sent Clicks Success Attack	ful Reported Invalid Vulnerable	Replied Bounced	Out of Office Highdwds.com
Countries Top Worst File Downloads Collected Data Recipients		ful Reported Invalid Vulnerable	Replied Bounced	

https://wiki.lucysecurity.com/

You will be able to track if the macro has been activated if you enabled the success action as "file data receive". The actual output of the macros can be found within the campaign under statistics/collected data.

### Step 15 - Create Reports

Once you have finished the campaign, you may create different types of reports (PDF, HTML or raw export). Please read the Creating Reports Chapter for more configuration options.



### **Create Custom Macro templates**

You can create your own template in two ways:

- 1. Based on a copy of an existing template
- 2. Create a new template from scratch

**Example: create a copy of an existing template** Let's say you want to create a new macro template based on the existing template "info.doc" (POST only) called mydocument.doc, you need to go through the following steps:

- Step 1: Select the template "Macros (POST only)
- Step 2: Press the copy button
- Step 3: Download the "info.doc" from the template and save it locally
- Step 4: Edit the Word File, without enabling the Macro and save it under your new name "mydocument.doc"
- Step 5: Delete the existing file "info.doc" in the template "Macros (Post only) (copy)"
- Step 6: Upload your new file "mydocument.doc" to the template and save the template

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**Example: create a new template from scratch** You can create your own file-based macro templates using any MS office file (ppt, doc, xls...):

- 1) create a VB macro with the main function named AutoOpen
- 3) use %lucy\_url% as Lucy URL
- 4) use variables in macro only after you process them with "Clean" function (see attached bas file) it cleans excess # in the end before using the actual data passed from Lucy
- 5) open word, excel or powerpoint document, go to the developer tab and hit "Edit Macro"
- 6) there choose "AutoOpen" function or create it and press "Edit"
- 7) paste your macro code, save the document and quit
- 8) voila you have a new evil macro template ready

See attached the macro template you can use for new macro projects

#### **Macro Template for Mac**

Existing Macro Templates are more focused on Windows systems. If you want to attack the Mac OS system, please use

this file

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