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": This Macro simulation is working in LUCY 3.0 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.

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

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After the login, you can create your first phishing campaign by pressing the button "New".

Home / Campaigns			
Compoints	Help		+ Nov
Campaigns		reate your first campaign by pressing this button.	
Currently there are no campaigns configured on LUCY.		News	
The term "campaign" refers to a phishing or malware testing project in LUCY. If you use LUCY for create a new campaign by clicking the button "+ New".	the first time you can	29.07.2015 Lucy 2.1 Lucy 2.1 is evaluated	
		02.07.2016 Locy 2.0 We are excited to environme Lucy 2.0	
		14.05.2015 Locy 1.5 Locy 1.9 is evaluable!	

STEP 2 - Select or Create a Client

Create a client or choose the built in 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 accounts which are associated with those clients.

New Campaign				
New Campaign	Name	Lucy Phishing Campaign		
	Client	Please select Locy Test		Γ
	Setup Mode	 Expert Setup (Manual Configuration) Setup Wizard Start with Sample Campaign 		
	Benchmark Sector	N/A	~	•
	Notes			

New clients can be created under "clients". In LUCY v. 2.5 and higher this is created under settings/clients.

	Settings +	1-			
Clients	Templates	•			
	Benchmark Sectors		Help		Constant of the second
nts	Domains		Create your c	clients by pressing this button.	+ New Client
lient	Dynamic DNS	_	0		
ucy Test	Adapt Authoring Toolkit			×	
	Recipients				
÷.	Clients	Clients		0 🛩	
<u>, , , , , , , , , , , , , , , , , , , </u>	End Users Administrative Users	Client Inv	oice Settings	0 *	

STEP 3 - Choose Your Configuration Mode

You may either continue with the **Expert Setup**, the **Setup Wizard** or a **Start with predefined campaign Template** (called sample campaign in LUCY < 3.0) configuration. We recommend using the Setup Wizard when used for the first time. Another optional is to set a **Benchmark** for a campaign.

Home / Campaigns / New Campaign	n			
New Campaign				
New Campaign	Name	Lucy Phishing Campaign		
	Client	LUCY TEST	~	
	Setup Mode	 Expert Setup (Manual Configuration) Setup Wizard Start with Sample Campaign 		
	Benchmark Sector	N/A	Y	
	Notes			

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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:

ummary	Name	Lucy Phishing Campaign		
ser Settings	Client	CLIENT X	~	
Statistics	Setup Mode	Expert Setup (Manual Configuration)		
Recipients		Setup Wizard I		
Base Settings	Benchmark Sector	N/A	~	0
Custom Fields	Notes			
Schedule				
Awareness				
Reports	_	Email Tracking O		_
Supervision Log	Antivirus/Firewall Protection	30 seconds	~	0
Message Log	Interval			- 1
Errors		Save		- 1

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

Now you need to select one or multiple phishing scenarios that supports 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:

- 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)":

DOC MACRO	Financial Bonus (Word Macro in eMail At This is a file based only scenario without a landing executed, the Macro will execute a few commands https://goo.gl/fl05SL	page containing a Word file with	-	jets
06.12.2016 13:10		Preview Message -	Preview Lure -	Use 🚽

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).

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Forward E-	In the Support ● In the Image Image	zt 4
	You may use the following variables in the template: - %link% — unique page URL for the recipient. - %name% — recipient name - %iemai% — recipient e-mail address	
Attachment	Setting	
Temp	late Miscros	
		1
Descrip		_
Varia	Nes Commands ipconfig.whoami	_
	Delete Temporary Files	

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.

Last update: 2019/07/25 create_a_phishing_campaign_with_a_word_macro https://wiki.lucysecurity.com/doku.php?id=create_a_phishing_campaign_with_a_word_macro&rev=1515862771 12:51

Mixed Templates Combined Data Entry the page and execute	& File-Based templates - user is offered to enter confidential information on
Cirtix XneApp Login	Cirtix Login & Plugin Install (Version 2.0) In this mixed template the user has the ability to login and access his company's work environment with a special plugin. Preview Landing Preview Message Preview Lure Use
Your Profile is ready.	Confirmation Social Media Profile A provider inform the recipient that a profile under his name has been created. The user is asked to log using his e-mail address and birthdate. Within the authenticated section the user can download a word file that appears to be a CV. The word file itself has a macro attached that can track if it has been opened. Preview Landing Preview Message Preview Lure Use

Note: If you attach a 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.

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New Scenario	Template	Encrypted Mail / 📷 English 🧭 Change/Select Template		
	Name			
	Domain	External IP	0	
		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 Lucy Domain Registration Wizard		
	Custom Domain	188.62.62.241	0	
		☑ Setup Wizard O		
		Use SSL O		
		Anonymous Mode		
		Track Opened Emails		
		□ Send Link to Awareness Website Automatically ●		
		BeEF Information Gathering		
	Collect Data	Partial	0	
		Double Barrel Attack		
	Login Regexp	W. WW	0	Insert
	Password Regexp		0	Insert -

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:

- **Setup Wizard**: You can always Unselect the Setup Wizard and continue with the Expert Mode.
- **Use SSL**: If you decide to use SSL for the campaign (either generate a certificate or import a trusted certificate) you can do this via the SSL Wizard.
- Anonymous Mode: Use this mode to hide all "Victim" data (IP address, login details, etc.) from statistics and reports.
- Success Action: Defines what LUCY considers as an successful attack. There are four options.
- **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. Also some email clients (like Outlook) block the automatic downloading of images in the Preview window.
- Send Link to Awareness Website Automatically: Send a link to the Awareness Website after user has been successfully attacked. Please note that the Awareness Website should be published for this feature to work.

- **BeEF Information Gathering** : Check this option to enable information gathering using BeEF.(http://beefproject.com/). BeEF is a penetration testing tool that focuses on the web browser it helps LUCY collect advanced information about your users. More background info can be found here.
- **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.
- Login Regexp: Another option is to define some login filters to only catch valid logins (you could define the Domain Name in the User Name field or say that the Password has to be at least 8 characters to be accepted from LUCY). Example: This filter here ^(?=.*\d)(?=.*[A-Za-z])[A-Za-z0-9].{8,}\$ would only allow logins with minimum 1 alphabetic character, minimum 1 digit & minimum length 8.
- **Redirect URL**: This is used for hyperlink based scenarios or within a landing page to redirect to an awareness page.
- **Compress Executable**: This setting is irrelevant for a Macro Based Campaign as a word file is not an executable.

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:

Quick Tips		Star • Übersch • Schriftant • Gr • ▲ • 🏵 • X □ Upload File or Image Insert Trackable PDF Insert Redirect Insert Login Form Insert Layer Insert Password Redirect
Form Login Parameters		Close Handler Trojen Download
Track Downloads Landing Page Variables		UOMAIN Protile Join Log In REGISTRATION SERVICES
		(WORD)
		K body main div div header h1
		@ Preview & Source Co
	Redirect URL	•
	Malware Simulation	· · · · · · · · · · · · · · · · · · ·
	Template	Macros (POST-only)

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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.

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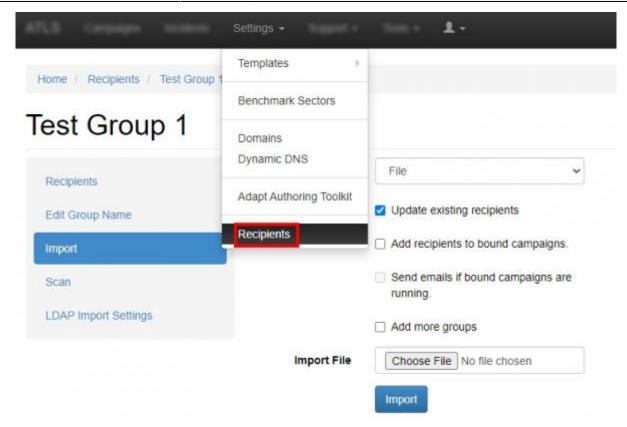
Last update: 2019/07/25 create_a_phishing_campaign_with_a_word_macro.https://wiki.lucysecurity.com/doku.php?id=create_a_phishing_campaign_with_a_word_macro&rev=1515862771 12:51

Summary	Sender Name	Peter Test	
General Settings	Sender E-mail	peter@phishing-server.com	
Landing Template		Random E-mail	
E-mail Template	Subject	Please access your encrypted mail ×	
Errora	Forward E-mail		
		Use Reply-To Header	
	Content		÷.
			4+ 80-
		Sti · Format · Schriftant · Or · A· O· X () Upleat	File or Image
		Dear %name% You have received an encrypted message with ,Microsoft Office 365 Cloud Services using our new webbased mailplattform "Secc-Mail" under the following link: %slinkt with your Windows username and password to decrypt the message. 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

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.

Lucy Phishi…	Campaign Status: Not S	tarted	
Results	Group	Test Group 1	~
Summary	Search	Search by recipient name, email, phone, staff type, locat	tion, d
Statistics		Q Search C Reset	
Reports	Z Email/Phon	e 🕴 Full Name 🕴 Language Staff 🕆 Location	Divis
Exports	No recipients.		
Automated Export	e		
Configuration			
Base Settings	Mapping	Campaign + Awareness	~
Awareness Settings			
Attack Settings		 Distribute users over selected scenarios. 	1
	Scenarios	Select All	
Schedule		The second second	
Schedule Recipients	1	Lucy Test (Hyperlink)	

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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 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.

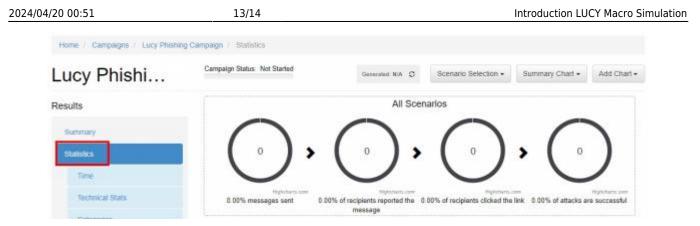
Step 13 - Start Your Campaign

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.

Lucy Phishi	Campaign Status: Not Started	C Reset Stats	Report	H Save as Template	▲ Export +	► start+
Results	Campaign		unning Time		Created By	Start
Results	Lucy Phishing Campaign		Not running		default@user.com	Restart
Summary	Reperture					Test Run
Statistics	Affack Overview					

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.



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 macro's 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.

ucy Phishing	Campaign	-		Report	Export to CSV	► Start
Summary	-		\cap	\cap		
Statistics	0).	. (。) .	. (•)		
Recipients				\bigcirc		
Base Settings	0 emails wer	e sent	0% of recipients clicked the	0% of recipients submitted		
Schedule			link;	the form		
Awareness Website	E-mails Sent	0 of 1		0.00%		
Errors	Clicks	D of 1		0.01%		
	Successful Attacks	0 of 1		0.00%		
	Vulnerable Victims	0 of 1		0.00%		

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 Lets 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

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 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 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 Mac OS system, please use

this file



Permanent link:

https://wiki.lucysecurity.com/doku.php?id=create_a_phishing_campaign_with_a_word_macro&rev=15158627



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