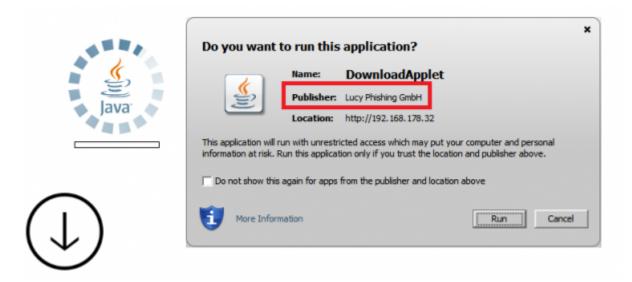
Background Info

About Java Applets: Java applets are executed in a sandbox by most web browsers, preventing them from accessing local data like the clipboard or file system. If the code rquires those rights, the user has to allow it (manually by clicking "run"). The code of the applet is downloaded from a web server, after which the browser either embeds the applet into a web page or opens a new window showing the applet's user interface.

About Java Exploits: Java exploits represent a common attack vector used by the bad guys to infiltrate vulnerable computers via the web browser. The default security level for Java applets and web start applications has been increased from "Medium" to "High". This affects the conditions under which Java web applications can run. Previously, as long as you had the latest secure Java release installed applets and web start applications would continue to run as always. With the "High" setting the user is always warned before any unsigned application is run to prevent silent exploitation. This security enhancement eliminates the risk of silent exploitation using drive-by attacks via unsigned applets, which were possible before Java 7 update 11. This leaves attackers with no choice but to use social engineering techniques to convince users to click the Run button on the security warning dialog.

Signed Applet

LUCY uses a signed Java Applet with its own company name. This is what users will see when they open a page that has an Applet Dropper activated:



Types of Applets available in LUCY

Starting with 3.3 there are two types of applets available:

• a) **Two Stage Dropper :** Our applet just acts as a dropper. A dropper is usually a program that has been designed to "install/run/load" some sort of malware (virus, backdoor, etc.) to a target system. The malware code can be contained within the dropper (single-stage) in such a

way as to avoid detection by virus scanners or the dropper may download the malware to the target machine once activated (two stage). In our case we use a two stage dropper: once activated, the applet will load the selected malware simulation from the LUCY campaign page (e.g. consolepost) and place it in the desired directory. Once it has been copied into that directory, the applet executes the file automatically and reports back to LUCY.

• b) **Java "Exploiter**": The JavaExploiter is a signed applet that will execute one or multiple commands and report back to LUCY:

File Type	Java Applet
	Use a signed applet to execute a set of commands.
	System Details
	✓ Logged Users
	Network Details
	System Hosts
	App List
	Save

Configuration

- Step 1 choose a file based template or a mixed template: In order to use the Java Applet Dropper or Exploiter you should pick a file based or mixed scenario type (if you choose a mixed scenario the applet will only be placed automatically on the second page like account.html; it won't work in a mixed scenario with just one webpage). This allows you to download and run any code that is compiled on LUCY using the Java Dropper. Please use the file based attack tutorial to create your campaign.
- Step 2 -Select the appropriate file type within the scenario settings. "Tunnel Executable" is the java dropper and "java applet" is the applet that gathers system information:

New Scenario	Template Name	SRA Cloud Encryption / Kenglish C ChangerSelect Template	
	Domain	security-verification.xyz	0
	Subdomain	java	0
		Anonymous Mode Anonymous Mode Track Opened Emails Disable Landing Send Link to Awareness Website Automatically BeEF Information Gathering	
	Success Action Collect Data	Data Submit Partial Double Barrel Attack	0
	Url Shortener	N/A 🗸	
	File Type	N/A Archive Tunnel Executable Java Applet	

• Step 3 - Fine-tune the settings: If you get to the scenario settings page please choose as a compression type "Java Applet":

Last update:

update: 2019/07/25 create_a_phishing_campaign_with_a_java_dropper_applet https://wiki.lucysecurity.com/doku.php?id=create_a_phishing_campaign_with_a_java_dropper_applet&rev=148864198 12:52
--

Scenario Settings	Name	JAVA		
Landing Page Template	Domain	Custom Domain	~	0
Message Template Errors	Custom Domain	192.168.178.32		Θ
	Languages	English Add •		
		Use SSL 🕥		
	Success Action Collect Data	 Anonymous Mode Track Opened Emails Disable Landing Send Link to Awareness Website Automatically BeEF Information Gathering Data Submit Partial 	>	9
_		Double Barrel Attack		
	Attachments	Compress Executable Attachments		
	Download Path	%SYSTEMDRIVE%	~	Θ
	Compress Type	Java Applet	~	

In case you picked the java dropper, please make sure you pick a path where the browser is allowed to write & execute files (like /temp folder):

Download Path	%SYSTEMDF	RIVE%			
Compress Type	Inve Annual	%SYSTEMDRIVE%	The drive / partition where Windows is installed, default = C:		
	Java Applet	%PROFILESDIRECTORY%	Users, default = %SYSTEMDRIVE%\Users		
		%WINDIR%	Windows, default = %SYSTEMDRIVE%\Windows		
	Save	%ALLUSERSPROFILE%	ProgramData, default = %SYSTEMDRIVE%\ProgramData		
		%APPDATA%	%PROFILESDIRECTORY%{username}\AppData\Roaming		
		%COMMONPROGRAMFILES%	%SYSTEMDRIVE%\Common Files		
		%COMMONPROGRAMFILES(x86)%	%SYSTEMDRIVE%\Program Files (x86)\Common Files		
		%COMSPEC%	%WINDIR%\System32\cmd.exe		
		%HOMEDRIVE%	The drive where Users is located, default = C:		
		%HOMEPATH%	%PROFILESDIRECTORY%{username}		
		%LOCALAPPDATA%	%PROFILESDIRECTORY%(username)\AppData\Local		
		%PROGRAMDATA%	ProgramData, default = %SYSTEMDRIVE%\ProgramData		
		%PROGRAMFILES%	%SYSTEMDRIVE%\Program Files		
		%PROGRAMFILES(X86)%	%SYSTEMDRIVE%\Program Files (x86) (only in 64-bit version)		
		%PUBLIC%	%PROFILESDIRECTORY%\Public		
		%SYSTEMROOT%	%WINDIR%		
		%TEMP%	%PROFILESDIRECTORY%(username)\AppData\Local\Temp		
		%USERPROFILE%	%PROFILESDIRECTORY%{username}		

In case you selected the java dropper, you still need to select the malware simulation that should be loaded & executed when the applet on landing page template is activated.

• **Step 4 - Test your scenario:**: If everything is configured correctly, the user who opens the link to the landing page should now see a popup that will ask him to run an applet. If he accepts to run the applet, the selected malware simulation is loaded into the specified directory and executed OR the system commands are getting executed (depening on which applet you picked in Step 2):

Landing Page Template	Content	
Message Template	Comen	
Errors		
Entris		B I U S x, x ² I _x II II ± ± 1 11 8 ± ± ± ± ≡ 11 1 € 55-
Quick Tips		Sil - Format - Schriftant - Gr A · D · X ull
Form Login Parameters		Upload File or Image Insert Login Form Insert Trackable PDF Insert Redirect Insert Layer Trojan Download
Track Downloads		^
Landing Page Variables		Error. Click for details
		~ ~
		< > >
		4
		Preview Source Code
	Redirect URL	9
	number one	
	Malware Simulation	
	Template	Console Post
	Description	Get output from one or multiple console programs. Display GUI option may have a value of 0 to 4: 0 - no GUI, 1 - Process Bar. 2 - Decryptor Window, 3 or 4 - Error Message Window.
		Progress Bar, 2 - Decryptor Window, 3 or 4 - Error Message Window.
	Description	
		Progress Bar, 2 - Decryptor Window, 3 or 4 - Error Message Window.
		Progress Bar, 2 - Decryptor Window, 3 or 4 - Error Message Window. Commands ipconfig,whoami
		Progress Bar, 2 - Decryptor Window, 3 or 4 - Error Message Window. Commands Desplay GUI (0-4) 1

Restrictions

- The applet requires the browser to have the java plugin installed and activated
- Only executables can be transmitted from LUCY to the client (no word files)

