



Next-Gen Spear Phishing Attacks



#### Whoami

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- Security Consultant @ Deloitte Red Team Operations
- System adminitrator for more than 10 years
- Ex-CTO of the Cyberguard startup (2 years)
- Professor of Ethical Hacking, Pentesting and PowerShell
- Speaker at national & internacional cibersecurity conferences
- Creator and writer of the blog darkbyte.net
- Hacking tools programmer (AutoRDPwn, Cloudtopolis, Invoke-DNSteal, PyShell, PSRansom, Thunderstorm..)





### Prologue

One of the main attack vectors in Red Team exercises, and possible entry points for an attacker, are phishing campaigns.

Currently, there are all kinds of tools and countermeasures to perform or protect against them, with a very high level of maturity and fully consolidated by the cybersecurity industry.

On the other hand, there are hardly any tools oriented to Spear Phishing or any other type of more sophisticated attack, regardless of whether their purpose is to attack or defend against it.





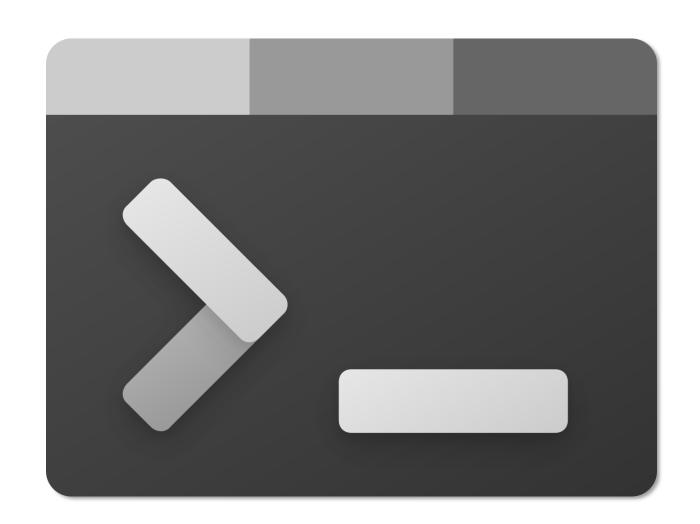
### History

- A customer requests an advanced Spear Phishing campaign
- The tests must include the "Browser in Browser" technique
- The victims are aware and have an advanced level of knowledge
- All security measures must be enabled, like DLP or EDR
- Testing must be performed on the company intranet
- All user accounts must be 2FA protected



#### Common Tools

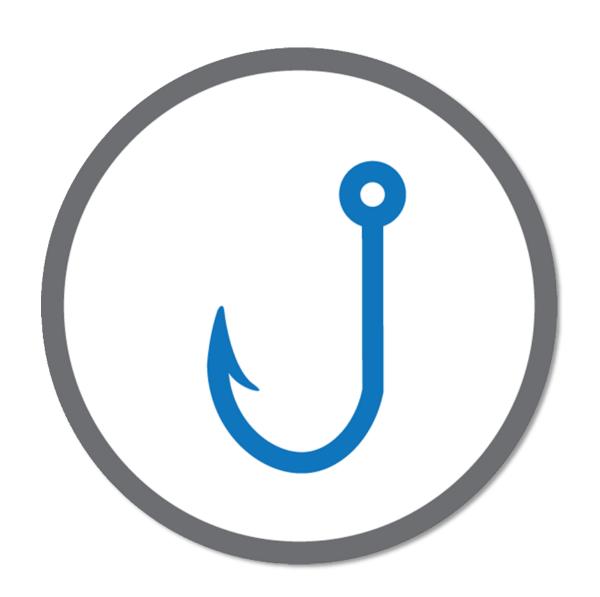
- github.com/UndeadSec/SocialFish
- github.com/rsmusllp/king-phisher
- github.com/drk1wi/Modlishka
- github.com/kgretzky/evilginx2
- github.com/gophish/gophish
- github.com/fin3ss3g0d/evilgophish
- github.com/trustedsec/social-engineer-toolkit



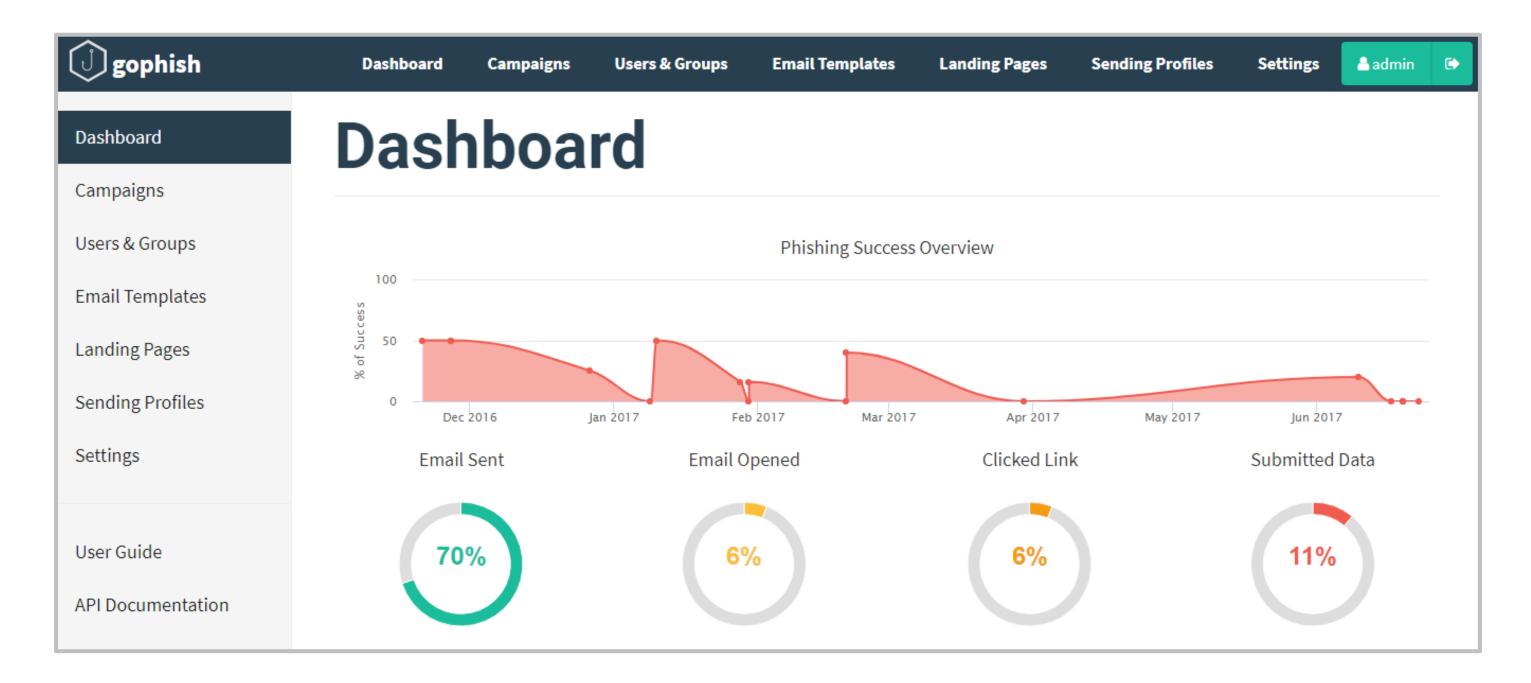


### 60Phish

- Does not work as a reverse proxy by default
- ☐ SMTP server configuration required
- HTML/CSS knowledge required
- Access and management through a web panel
- Advanced statistics and traceability
- High level of maturity and documentation







Your PC is perfectly stable and is running with absolutely no problems whatsoever.

1000% Complete



For more information about this talk, visit https://github.com/JoelGMSec/EvilnoVNC

You can search for this status code online if you'd like:



### Evilginx2

- Works as a Man-in-the-Middle
- Does not require much configuration
- A multitude of "Phishlets" are available
- Console access and management
- Easy to use but with little traceability
- High level of maturity and documentation









[14:58:53] [<mark>inf</mark>] blacklis [14:58:53] [<mark>war</mark>] server d [14:58:53] [war] server i

phishlet	author	active	status	hostname
amazon	@customsync	disabled	available	i
facebook	@charlesbel	disabled	available	Ì
linkedin	@mrgretzky	disabled	available	1
tiktok	@An0nUD4Y	disabled	available	İ
twitter-mobile	@white_fi	disabled	available	İ
wordpress.org	@meitar	disabled	available	İ
airbnb	@ANONUD4Y	disabled	available	İ
booking	@Anonymous	disabled	available	İ
github	@audibleblink	disabled	available	İ
paypal	@An@nud4y	disabled	available	İ
protonmail	@jamescullum	disabled	available	Ì
twitter	@white_fi	disabled	available	İ
outlook	@mrgretzky	disabled	available	İ
reddit	@customsync	disabled	available	İ
citrix	@424f424f	disabled	available	1
coinbase	@An0nud4y	disabled	available	Ι
instagram	@charlesbel	disabled	available	1
o365	@jamescullum	disabled	available	1
okta	@mikesiegel	disabled	available	1
onelogin	@perfectlylog	disabled	available	1

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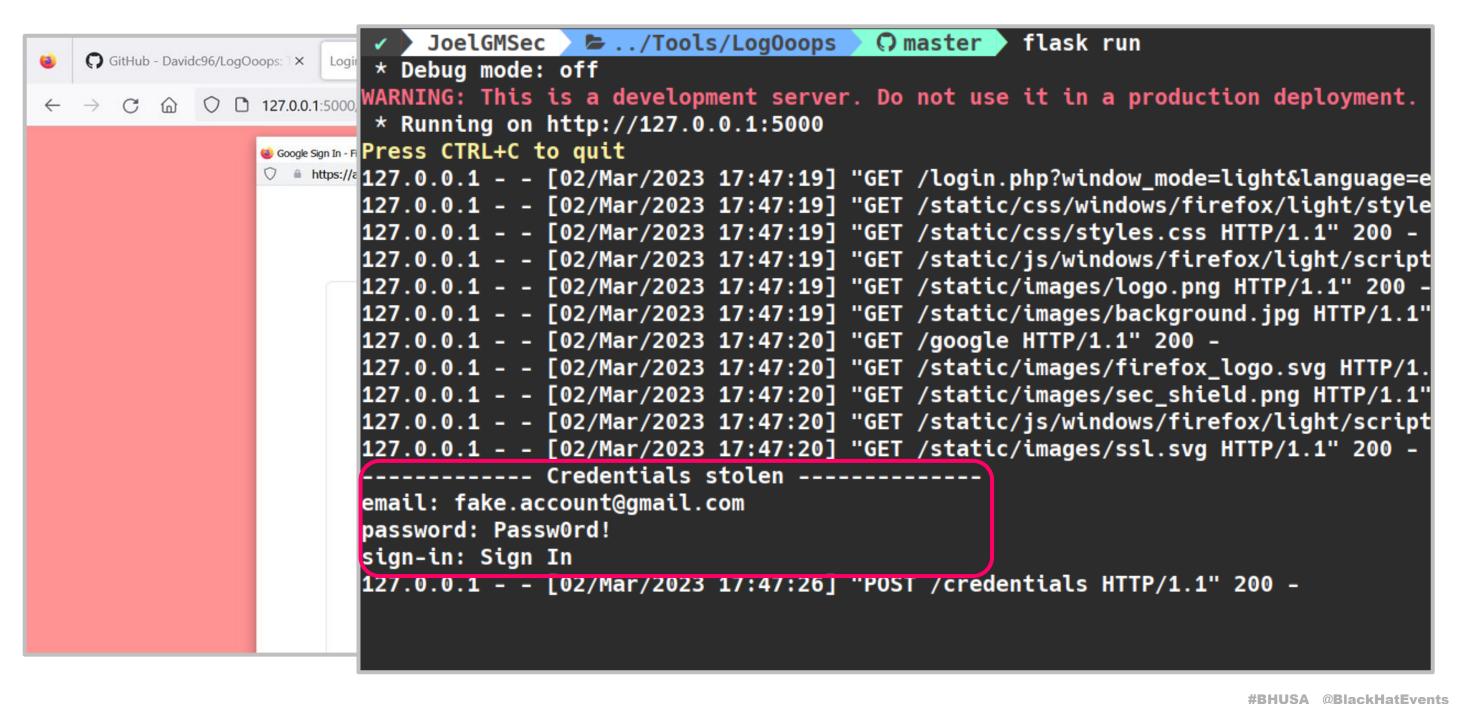


### br-in-the-br

- Ease of installation and deployment
- Does not require a lot of configuration
- HTML/CSS knowledge required
- Console access and management
- Cross-platform compatibility
- Little traceability and documentation







Information Classification: General

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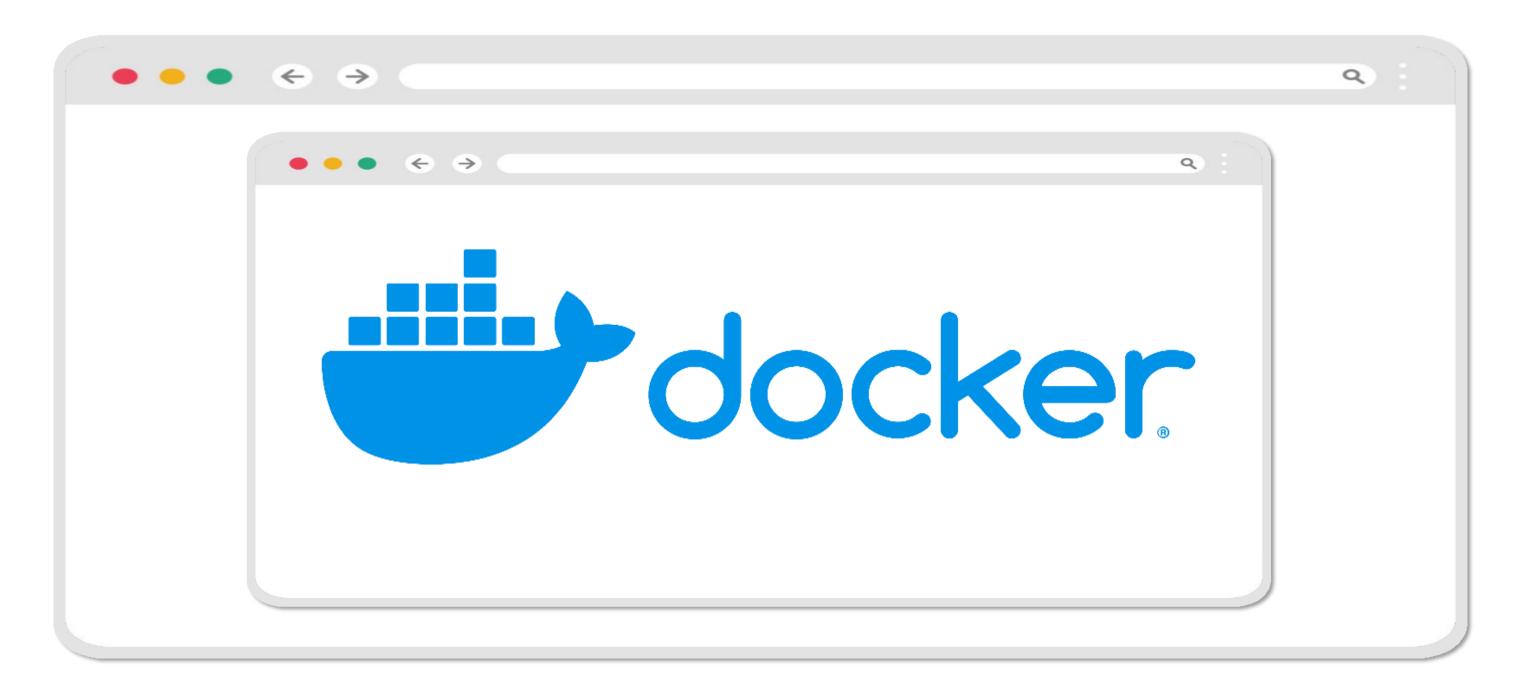


#### EVILNOVNC

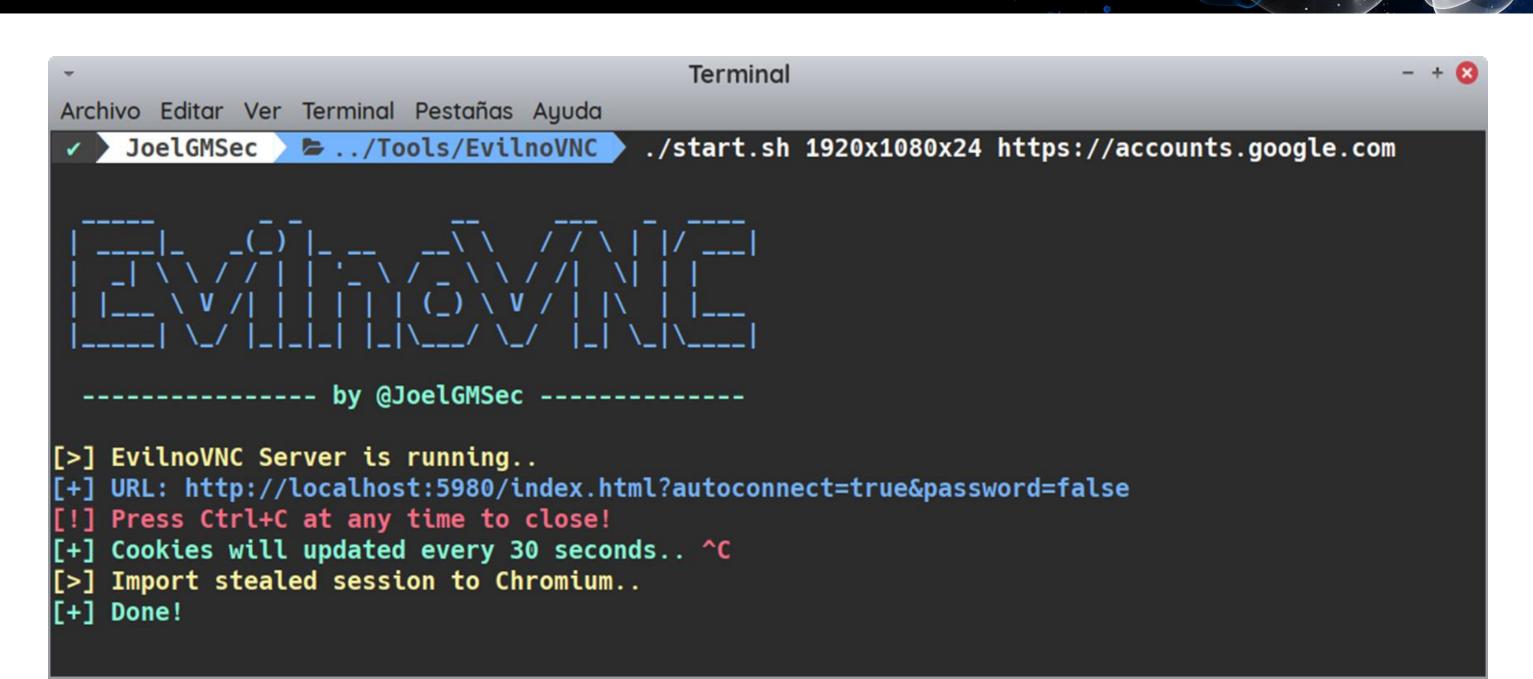
- Works as a Man-in-the-Middle
- No configuration required
- Real-time cookie decryption
- Keylogger and live viewing
- Automatic file interception
- Offline browsing analysis











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#### MuHi-Session

- Identical to the original EvilnoVNC
- Multi-user connection support
- Reverse proxy based on nginx
- Profile data sorted in directories
- Higher display complexity
- Possible DoS when receiving N requests



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### Things to do

- Support for more resolutions
- Modify victim URL with JS
- Replicate the original User-Agent
- Own implementation of WebSockets
- Different dynamic loading templates
- Create an imported profile manager





