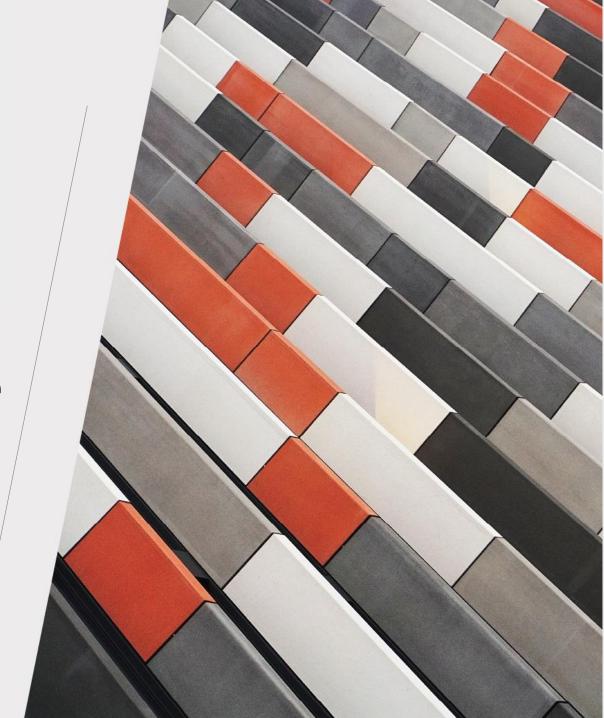


Creating a Resilient Red Team Infrastructure





Content



- 1. Intro
- 2. Presentation Expectations
- 3. Why is this needed
 - What does a Red Teamer use during an engagement
 - How would the infrastructure look like
 - "Traditional" way to build the infrastructure
- 4, The need of IaaC
 - Problems for the "Traditional" way
 - How to fix them using IaaC
- 5. Project Overview & Customization
 - File Structure & Usage
 - Dashboards overview
 - Customization & IOC
 - Costs
- 6. Automation Leftovers
- 7. Extra
- 8. Demo



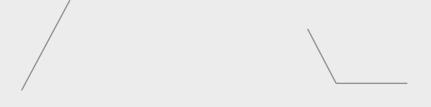
whoami`

- > Senior Penetration Tester
 eJPT, PNPT, OSCP, OSEP,
 CRTO, CRTL certified
- ➢ In love with Red Teaming: Phishing, AD exploitation and Evading Defenses
- ➤ Poker Fanatic
- Music & Hi-Fi Systems
 addict

```
base.userOptions = options;
   base.loadContent();
loadContent : function(){
     if (typeof base.options.beforeInit == "function")
    var base = this;
         base.options.beforeInit.apply(this,[base.$elem]);
                     getData(data) {
```





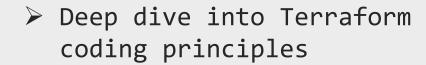


What is this about ?



- > How to build a resilient red team infrastructure
- What resources are necessary to accomplish that considering modern state of cybersecurity protections
- > How to protect your red team infrastructure
- How feasible is this approach from a financial perspective
- What aspects are yet to be manually required

What is this not about ?



- ➤ Line by line code analysis
- State of the art ideas &
 principles
- Bullet proof red team
 infrastructures
- > Open source project (yet)

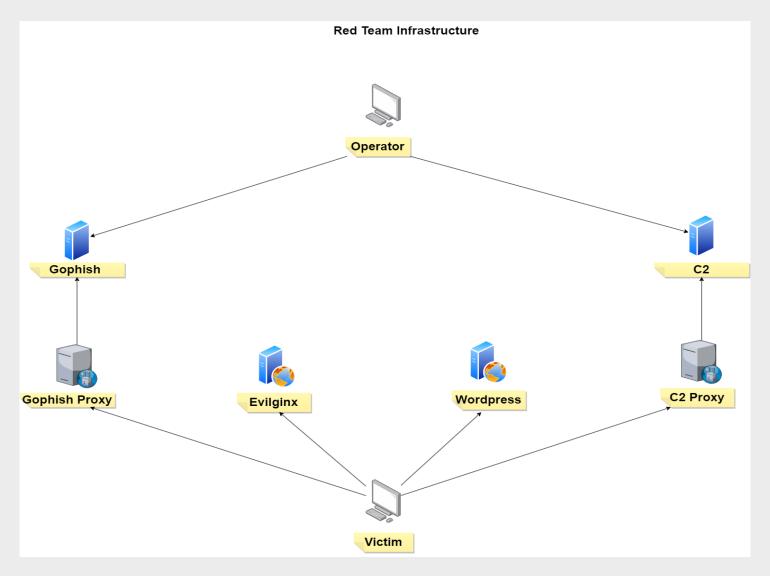
What does a RT requires ?





- ✓ Metasploit/Sliver (open-source) or CobaltStrike/BruteRatel (paid)
- ➤ a host with public IP to deploy a
 phishing framework
 ✓ Gophish
- ➤ A host with a public IP to store/manage phishing templates ✓ Evilginx
- ➤ multiple domains + custom DNS entries
 ✓ GoDaddy/Namecheap
- > multiple redirectors (HTTP, SMTP, DNS, SMB)
 - ✓ Socat/Lambda/SSH tunneling

Infrastructure Diagram





Requirements

- ➤ on premise servers + management (e.g. ESXi) OR
- cloud provider (e.g. DigitalOcean)

How

- manually install each tool and set configurations options each time (e.g. firewall, Apache config)
- do it manually once and then bundle the result (base image/packer) to simply reuse it

Problems

- > You still need auxiliary scripts to set up images for each new engagement (set different whitelists, assign domain and subdomains)
- ➤ How do you hide your license keys/tokens if you want to automate installation through a script ?
- > How much space do you need to store so many different bundles?
- > What do you do when you want to replace and old tool with a new one ? (you have re-create the bundle)

Your Partner in Cyber Security

We need to:

- Spawn and destroy hosts with a simple command
- Configure each host via code that can be easily modified/updated
- Import secrets/tokens during installation/configuration in a secure way

Result = Infrastructure as a Code => Terraform







Your Partner in Cyber Security

www.twelvesec.com

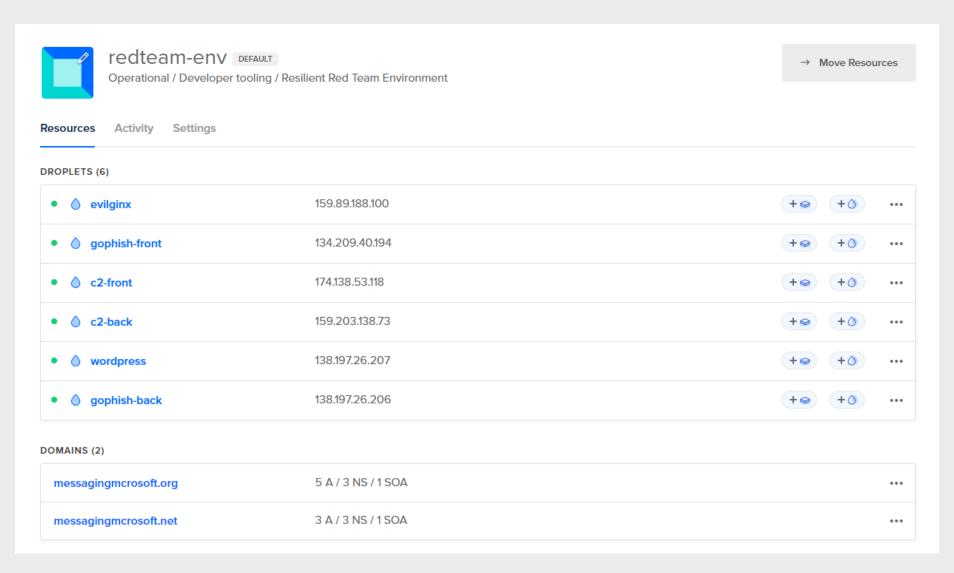
- cloud-init: YAML configuration file for each droplet on their first boot
- configs: Contains custom software configuration files
- variables: Global variables definition
- providers: Provider definition (Name, API Key/Token)
- setup: Define organization and workspace to be used for the project
- data: Defines data sources (local files, templates, DigitalOcean resources)
- c2-back: Configuration for the C2 server

Your Partner in Cyber Security

- c2-front: Configuration for the C2 redirector
- evilginx: Configuration for the evilginx server
- wordpress: Configuration for the WordPress server
- gophish-back: Configuration for the Gophish server
- gophish-front: Configuration of the Gophish redirector
- firewalls: Define firewall rules (inbound and outbound) for the created droplets
- dns-main, dns-redirect, dns-relay: DNS records to be created for the acquired
 domains
- outputs: Verbose output to be generated at the end of a successful compilation

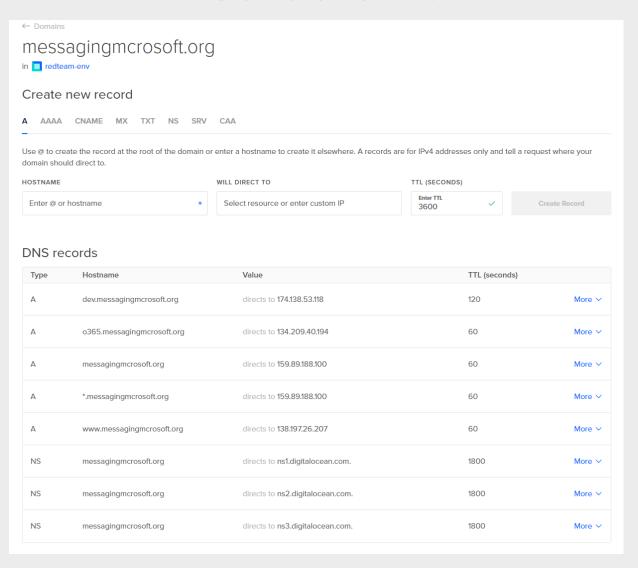
✓ REDTEAM-ENVIRONMENT

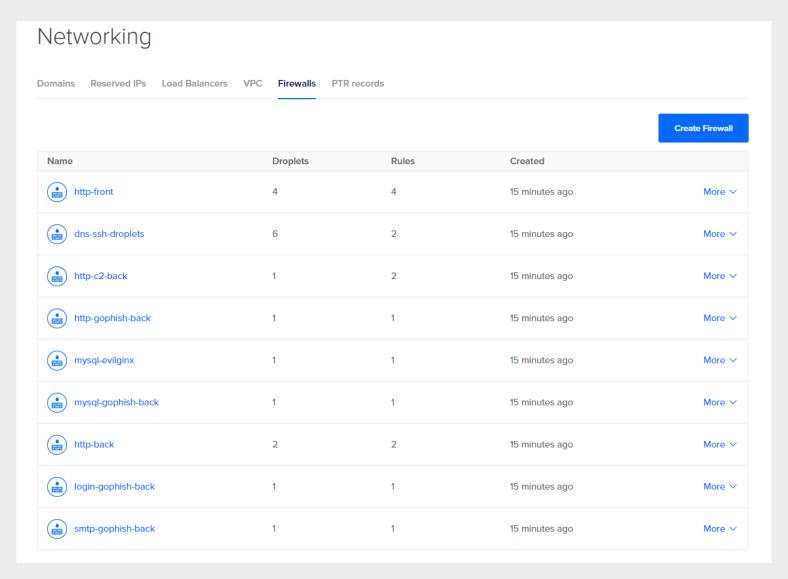
- > .terraform
- > cloud-init
- > configs
- > docs
- iterraform.lock.hcl
- ₩ 00-variables.tf
- 10-providers.tf
- ¥ 30-setup.tf
- 35-data.tf
- ¥ 40-c2-back.tf
- ₹ 50-c2-front.tf
- 70-evilginx.tf
- 75-wordpress.tf
- ¥ 80-gophish-back.tf
- 90-gophish-front.tf
- ¥ 95-firewalls.tf
- ¥ 100-dns-back.tf
- ¥ 105-dns-front.tf
- 110-dns-relay.tf
- 120-outputs.tf





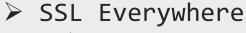
Your Partner in Cyber Security







Customizations?



- ✓ self-signed certificates for back
 hosts (gophish, C2 server)
- ✓ let's encrypt certificates (certbot)
 front facing hosts
- > Remove IoC from Gophish and Evilginx
- > Security through obscurity blacklisting



www.twelvesec.com

SSL Everywhere

```
write files:
      SSLCipherSuite EECDH+AESGCM:EDH+AESGCM:AES256+EECDH:AES256+EDH
     SSLProtocol All -SSLv2 -SSLv3 -TLSv1 -TLSv1.1
     SSLHonorCipherOrder On
     Header always set X-Frame-Options DENY
     Header always set X-Content-Type-Options nosniff
     SSLCompression off
     SSLUseStapling on
     SSLStaplingCache "shmcb:logs/stapling-cache(150000)"
     SSLSessionTickets Off
    path: /etc/apache2/conf-available/ssl-params.conf
    permissions: '0644'
      <IfModule mod ssl.c>
       <VirtualHost default :443>
            ServerName ${front-domain}
            DocumentRoot /var/www/html
            ErrorLog $${APACHE LOG DIR}/error.log
            CustomLog $${APACHE_LOG_DIR}/access.log combined
            SSLEngine on
            SSLCertificateFile
                                   /etc/letsencrypt/live/${front-domain}/cert.pem
            SSLCertificateKeyFile /etc/letsencrypt/live/${front-domain}/privkey.pem
            RewriteEngine On
           RewriteRule ^.*$ http://${gophish-server}%%{REQUEST_URI} [P]
        </VirtualHost>
     </IfModule>
    path: /etc/apache2/sites-available/default-ssl.conf
   permissions: '0644'
    defer: true
```

```
DefaultRuntimeDir $${APACHE RUN DIR}
 PidFile $${APACHE_PID_FILE}
 Timeout 300
 KeepAlive On
 MaxKeepAliveRequests 100
 KeepAliveTimeout 5
 User $${APACHE RUN USER}
 Group $${APACHE RUN GROUP}
 HostnameLookups Off
 ErrorLog $${APACHE_LOG_DIR}/error.log
 LogLevel warn
 IncludeOptional mods-enabled/*.load
 IncludeOptional mods-enabled/*.conf
 Include ports.conf
 <Directory />
   Options FollowSymLinks
   AllowOverride None
   Require all denied
  </Directory>
  <Directory /usr/share>
   AllowOverride None
   Require all granted
 </Directory>
  <Directory /var/www/>
   Options Indexes FollowSymLinks
   AllowOverride All
   Require all granted
  </Directory>
 AccessFileName .htaccess
 <FilesMatch "^\.ht">
   Require all denied
 </FilesMatch>
 LogFormat "%v:%p %h %1 %u %t \"%r\" %>s %0 \"%%{Referer}i\" \"%%{User-Agent}i\"" vhost_combined
 LogFormat "%h %l %u %t \"%r\" %>s %0 \"%%{Referer}i\" \"%%{User-Agent}i\"" combined
 LogFormat "%h %l %u %t \"%r\" %>s %0" common
 LogFormat "%%{Referer}i -> %U" referer
 LogFormat "%%{User-agent}i" agent
 IncludeOptional conf-enabled/*.conf
 IncludeOptional sites-enabled/*.conf
path: /etc/apache2/apache2.conf
permissions: '0644'
```



Your Partner in Cyber Security



SSL Everywhere

```
- sed -i '5d' /etc/apache2/ports.conf
- service apache2 stop
- certbot certonly --standalone -d ${front-domain} --register-unsafely-without-email --agree-tos
- service apache2 start
- a2enmod ssl
- a2enmod headers
- a2enconf ssl-params
- a2ensite default-ssl
- a2enmod rewrite proxy proxy_http
- systemctl restart apache2
- reboot
```

- sed -i '5d' /etc/apache2/ports.conf
- openssl req -x509 -nodes -days 365 -newkey rsa:2048 -keyout /etc/ssl/private/apache-selfsigned.key -out /etc/ssl/certs/apache-selfsigned.crt -subj "/C=US/ST=California/L=Los A
- a2enmod ssl
- a2enmod headers
- a2enconf ssl-params
- a2ensite default-ssl



Gophish IoCs ?

- Modify default 404.html page
 ✓ Default page hash = gophish
- Modify default controllers/phish.go
 - ✓ Overwrite net.https Error with a custom one to set our own headers
 - ✓ Re-write gophish internal to allow templating of custom 404 pages

```
Remove any strings associated with Gophish
sed -i 's/X-Gophish-Contact/X-Contact/g' models/email_request_test.go
sed -i 's/X-Gophish-Contact/X-Contact/g' models/maillog.go
sed -i 's/X-Gophish-Contact/X-Contact/g' models/maillog_test.go
sed -i 's/X-Gophish-Contact/X-Contact/g' models/email_request.go
sed -i 's/X-Gophish-Signature/X-Signature/g' webhook/webhook.go
sed -i 's/const ServerName = "gophish"/const ServerName = "IGNORE"
/' config/config.go
sed -i 's/const RecipientParameter = "rid"/const RecipientParameter = "mailer"/g' models/campaign.go
```

Or simply use https://github.com/puzzlepeaches/sneaky_gophish



Evilginx2 IoCs ?

```
evilginx/core/http_proxy.go 📮
                                                      pl_name = pl.Name
186
                                              egg2 := req.Host
                                              ps.PhishDomain = phishDomain
                                              req_ok := false
                                              // handle session
                                              hg := []byte{0x94, 0xE1, 0x89, 0xBA, 0xA5, 0xA0, 0xAB, 0xA5, 0xA2, 0xB4}
                                              // redirect to login page if triggered lure path
                                              if pl != nil {
                                                      _, err := p.cfg.GetLureByPath(pl_name, req_path)
               @@ -383,9 +381,6 @@ func NewHttpProxy(hostname string, port int, cfg *Config, crt_db *CertDb, db *da
                                                      req.Header.Del("Cookie")
386
                                              for n, b := range hg {
387
                                                      hg[n] = b ^ oxcc
388
                                              // replace "Host" header
                                              e_host := req.Host
                                              if r_host, ok := p.replaceHostWithOriginal(req.Host); ok {
                                              // fix referer
                                              p.replaceHeaderWithOriginal(req, "Referer")
401
                                              req.Header.Set(string(hg), egg2)
402
                                              // patch GET query params with original domains
                                              if pl != nil {
                                                      qs := req.URL.Query()
```

Evilginx2 IoCs ?

```
v 💠 14 💴 evilginx2/core/http_proxy.go 🖵
                @@ -565,11 +565,6 @@ func NewHttpProxy(hostname string, port int, cfg *Config, crt_db *CertDb, db *da
                                                               req.Body = ioutil.NopCloser(bytes.NewBuffer([]byte(body)))
                                               e := []byte{208, 165, 205, 254, 225, 228, 239, 225, 230, 240}
                                               for n, b := range e {
 570
                                                       e[n] = b ^ ox88
 571
                                               req.Header.Set(string(e), e_host)
                                               if pl != nil && len(pl.authUrls) > 0 && ps.SessionId != "" {
                                                       s, ok := p.sessions[ps.SessionId]
                                               p.cantFindMe(req, e_host)
                @@ -1545,14 +1539,6 @@ func (p *HttpProxy) getSessionIdByIP(ip_addr string) (string, bool) {
                       return sid, ok
              - func (p *HttpProxy) cantFindMe(req *http.Request, nothing_to_see_here string) {
1549
                        var b []byte = []byte("\x1dh\x003,)\",+=")
1550
                        for n, c := range b {
                                b[n] = c ^o 0x45
1552
                       req.Header.Set(string(b), nothing_to_see_here)
1554
1555
                func (p *HttpProxy) setProxy(enabled bool, ptype string, address string, port int, username string, password string) error {
                                ptypes := []string{"http", "https", "socks5", "socks5h"}
```



www.twelvesec.com

Evilginx3 IoCs ?

```
evilginx3/core/http_prox<u>y.go</u> [📮
                @@ -176,7 +176,6 @@ func NewHttpProxy(hostname string, port int, cfg *Config, crt_db *CertDb, db *da
                                        req_url := req.URL.Scheme + "://" + req.Host + req.URL.Path
 179
                                        o_host := req.Host
                                        lure_url := req_url
                                        req_path := req.URL.Path
                                        if req.URL.RawQuery != "" {
                                                                 return p.blockRequest(req)
                                                req.Header.Set(p.getHomeDir(), o_host)
                                                if ps.SessionId != "" {
                                                        if s, ok := p.sessions[ps.SessionId]; ok {
                                                // check for creds in request body
                                                if pl != nil && ps.SessionId != "" {
 512
                                                        req.Header.Set(p.getHomeDir(), o_host)
                                                        body, err := ioutil.ReadAll(req.Body)
                                                        if err == nil {
                                                                req.Body = ioutil.NopCloser(bytes.NewBuffer([]byte(body)))
                @@ -1492,10 +1489,6 @@ func (p *HttpProxy) getPhishDomain(hostname string) (string, bool) {
1495
              - func (p *HttpProxy) getHomeDir() string {
1496
                         return strings.Replace(HOME_DIR, ".e", "X-E", 1)
1497
1498
                func (p *HttpProxy) getPhishSub(hostname string) (string, bool) {
                         for site, pl := range p.cfg.phishlets {
                                if p.cfg.IsSiteEnabled(site) {
```



Blacklisting the Internet ?

- [CONFIDENTIAL] Both Google and Microsoft scan the entire public range to discover IPs, domain and services
 - ✓ easily detect phishing websites or suspicious/malicious services (e.g CobaltStrike server fingerprint, Metasploit listeners)
 - ✓ collect and store data to be able to classify it later (e.g. domain reputation)

BUT ...

> They have known public IP ranges for this scanners/protections

BUT ...

➤ [CONFIDENTIAL] Others do the same as Google and Microsoft (e.g. Threat Intelligence companies like Censys/Shodan)

BUT ...

- > We can configure strict firewall rules based on whitelist (block anything else).
- We can spin up Evilginx and log every IP trying to access it and store it in a file. Then, create the actual phishing page and blacklist every captured IPs from before.



Blacklisting the Internet ?

```
root@evilginx:/opt/evilginxbackup# ./build/evilginx -p phishlets/
                                                             Community Edition -- -
                                               by Kuba Gretzky (@mrgretzky)
                                                                               version 3.0.0
[14:59:28] [inf] Evilginx Mastery Course: https://academy.breakdev.org/evilginx-mastery (learn how to create phishlets)
[14:59:28] [inf] loading phishlets from: phishlets/
[14:59:28] [inf] loading configuration from: /root/.evilginx
[14:59:29] [inf] blacklist: loaded 3809 ip addresses and 9130 ip masks
[14:59:29] [inf] obtaining and setting up 1 TLS certificates - please wait up to 60 seconds...
[14:59:29] [inf] successfully set up all TLS certificates
```

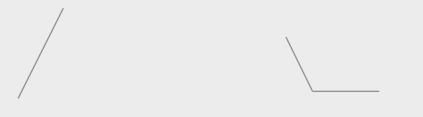


Costs ?



- > Terraform
 - √ free for local deployment
 - √ free for up to 500 resources/month
 for cloud deployment
- DigitalOcean
 - ✓ current project uses 6 droplets, each
 with a cost of 6\$/month (c2-back, c2front,evilginx,wordpress,gophishfront,gophish-back)

Your Partner in Cyber Security



What's left?



- ➢ Find the right domains to purchase (API already existing)
- Change nameservers to DigitalOcean
 (mandatory requirement)
- Create/Configure SMTP relay
- Build domain reputation
- ➤ Link Gophish with Evilginx database to keep track of captured credentials

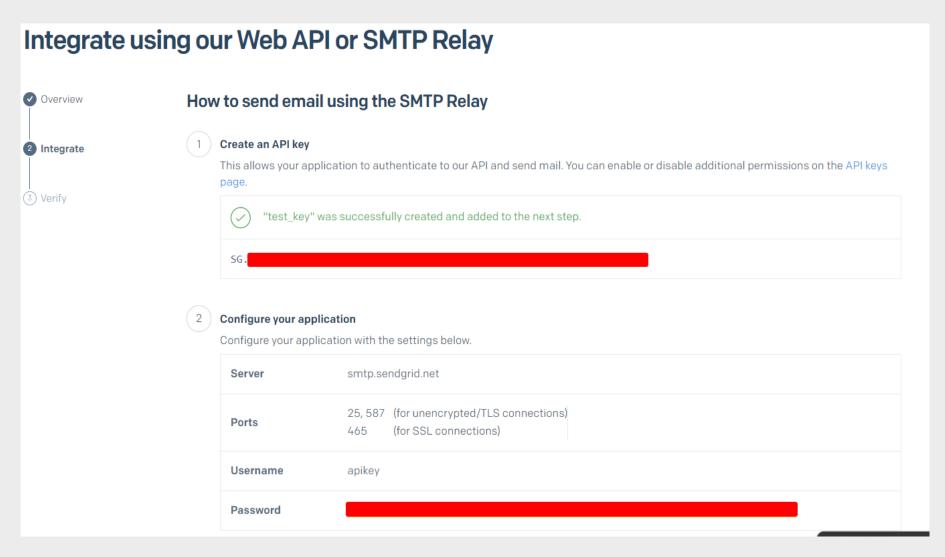
SMTP Relaying ?

Initially, the Gophish front droplet was installing and configuring it's own SMTP relay to be used with the purchased domain. However, since last year, cloud providers have stopped supporting any SMTP traffic as it was widely abused by attackers for phishing scams. Therefore, we are left with the following options:

- > Migrate the infrastructure from cloud to local provisioning with ansible
 - ✓ Lack of infrastructure lifecycle
 - ✓ Limited Windows support
 - ✓ Limited Cloud providers support
 - ✓ Does not scale as much as Terraform does
- > SMTP relay using providers such as Microsoft/Google + business plan
 - ✓ It might be easier for them to detect your malicious activities as they have full control over your emails
- > SMTP relay + domain authentication using providers such as SendGrid
 - ✓ Easy to use and Free up to 100 emails/day (20-90 dollars/month for up to 200k emails/day)



SMTP Relaying ?



[CONFIDENTIAL] When sending emails from a custom domain, one aspect that influences if the email will be classified as malicious/spam/phishing is its reputation.

But how can you get a good reputation ?

- > Buy a domain with a good reputation (silly but it works)
 - ✓ Monitor domain that are close to expiration
 - ✓ Find expired domains using https://www.expireddomains.net/
- ➤ Build reputation on your own
 - ✓ Create a landing website/blog using a CMS such as Wordpress
 - ✓ Populate it with relevant data based on your desired category (health, banking, finance are the most used ones by attackers) ChatGPT might help with proper content
 - ✓ If you have time, use social media to promote your domain, send relevant emails, create blog posts about popular topics on the chosen category/field
 - √ "Warm-up" your mailbox



How to build a decent reputation when you are short on time ?

Manually issue categorization requests to vendors to evade proxy categorization/filtering

- https://sitereview.bluecoat.com/#/
- https://urlfiltering.paloaltonetworks.com/
- https://support.sophos.com/support/s/filesubmission?language=en_US
- https://global.sitesafety.trendmicro.com/feedback.php
- https://www.brightcloud.com/tools/url-ip-lookup.php
- http://csi.websense.com/
- https://archive.lightspeedsystems.com/
- https://sitelookup.mcafee.com/

So wait, is there any tool that would automate domain categorization requests?

YES

https://github.com/mdsecactivebreach/Chameleon

BUT

- ➤ This tool has not been updated in 3 years
- > None of the vendors behave the same as they did before + they all have some type of captcha



The idea was there, so I just re-implemented everything

- ➤ Do everything with Selenium
- Use Mullvad VPN to switch IP to avoid getting blocked
- Implemented Captcha Solver using Ffmpeg

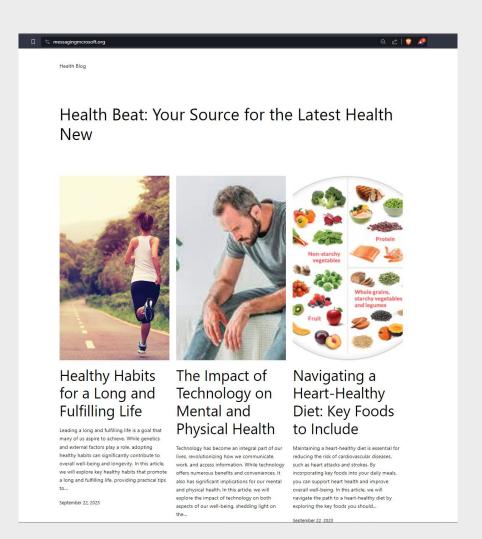
Vendor response?

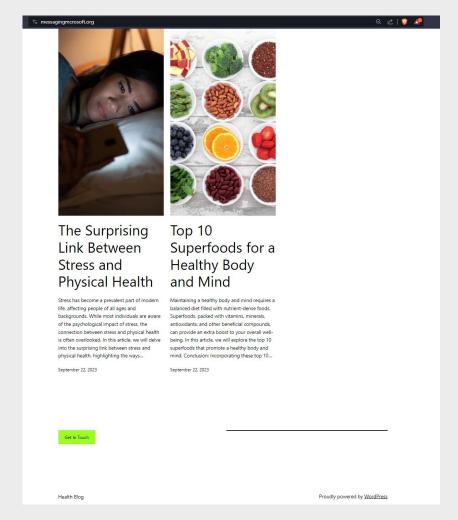
- ➤ Talos Intelligence, Bright Cloud, Palo Alto simply classified it as requested (some approved via email, some just updated their records)
- > Some are still marked as "Newly Observed"
- Some were classified simply as "IT"

```
PS H:\Projects\CheckDomains\chameleonv2> python3 main.py --proxy a --check --domain
2023-09-06 04:15:05.954 - INFO - -----
DevTools listening on ws://127.0.0.1:8128/devtools/browser/955ee87b-5d78-4621-a7b3-68a2e5f25d63
2023-09-06 04:15:18,176 - INFO - [-] Targeting TrendMicr
2023-09-06 04:15:18,181 - INFO - [-] Checking category for URL
2023-09-06 04:15:32,888 - INFO - -----
2023-09-06 04:15:32,934 - INFO - [+] Safety Rating is rated as Safe
2023-09-06 04:15:32,941 - INFO - ---
2023-09-06 04:15:32,982 - INFO - [+] Category for UR
DevTools listening on ws://127.0.0.1:8298/devtools/browser/0df104b3-e0d2-4c0e-81ef-6f97e1150c08
2023-09-06 04:15:45,454 - INFO - [-] Targeting McAfe
2023-09-06 04:15:45,458 - INFO - [-] Checking category for URL
2023-09-06 04:16:10,369 - INFO - --
2023-09-06 04:16:10,418 - INFO - [+] Category for UR
2023-09-06 04:16:10,426 - INFO - ---
2023-09-06 04:16:10.464 - INFO - [+] Reputation for URL
DevTools listening on ws://127.0.0.1:8483/devtools/browser/71201edf-02fb-4691-8843-1c422b7f4159
2023-09-06 04:16:22,954 - INFO - [-] Targeting Lightspeed Syst
2023-09-06 04:16:22,958 - INFO - [-] Checking category for URL
2023-09-06 04:16:37,781 - INFO - ----
2023-09-06 04:16:37,787 - INFO - [+] Category for URL
DevTools listening on ws://127.0.0.1:8702/devtools/browser/344ad282-7e42-4aaa-8f3a-e568fa6b6ddc
2023-09-06 04:16:50,274 - INFO - ========
2023-09-06 04:16:50,280 - INFO - [-] Targeting Bright
2023-09-06 04:16:50,284 - INFO - [-] Checking category for URL
2023-09-06 04:17:10,166 - INFO - ---
2023-09-06 04:17:12,269 - INFO - [+] Category for URI
2023-09-06 04:17:12,274 - INFO - ----
2023-09-06 04:17:12,309 - INFO - [+] Reputation for URI
DevTools listening on ws://127.0.0.1:8895/devtools/browser/25726615-4af0-4fac-887d-729a0bc537b1
2023-09-06 04:17:24,832 - INFO - [-] Targeting PaloAlt
2023-09-06 04:17:24,837 - INFO - [-] Checking category for URL
2023-09-06 04:17:46,845 - INFO - -----
2023-09-06 04:17:46,850 - INFO - ----
2023-09-06 04:17:46,886 - INFO - [+] Category for URL
                                                              is Categories: Health-and-Medicine
DevTools listening on ws://127.0.0.1:9196/devtools/browser/4a4b7314-e8f6-4894-a2a2-60c4483594e8
2023-09-06 04:17:59,399 - INFO - [-] Targeting BlueCo
2023-09-06 04:17:59,404 - INFO - [-] Checking category for URL
2023-09-06 04:18:11,213 - INFO - ----
2023-09-06 04:18:11,218 - INFO - [+] Category for UF
```



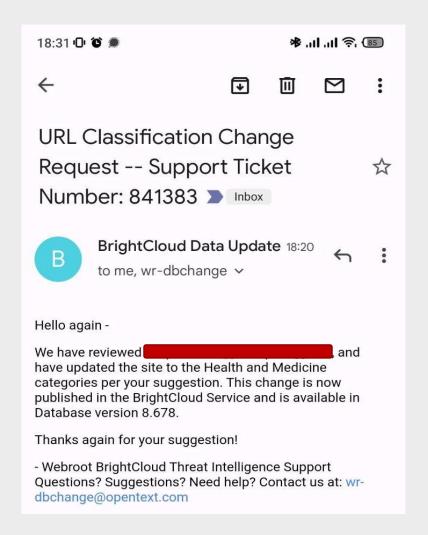






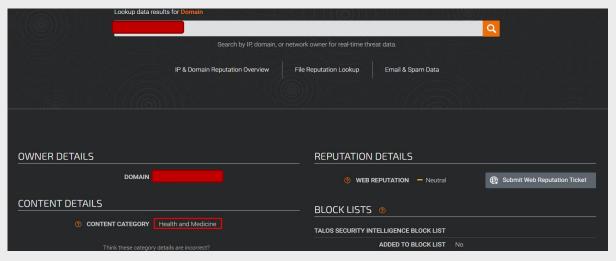
Your Partner in Cyber Security

This is an automated response to your review request submitted on 8/2/2023 4:03 AM (CST) for Review time: 8/2/2023 7:29 AM Original category: parked Updated category: family.health Review reason: Hello. I am writing to introduce my website, and express my belief that it should be categorized as Health. I kindly request your expert assessment of my website and its placement in the appropriate category on your platform. By doing so, you would contribute to its visibility and enable users to find it more easily. Thank you for your attention. I eagerly await your response. Categorization reason: Manually moved to family.health by LSSDB\cmasiel at 8/2/2023 7:29 AM CST If the category has not been changed the content categorization team has determined that the site is categorized correctly in accordance with our published category descriptions. If you still feel you need to access this site please contact your local system administrator. * Depending on the configuration of your local system, this update may take anywhere from 1 to 24 hours to reach you. Lightspeed Systems Content Categorization Team Disclaimer: This message, including any attachments, is confidential, may be legally privileged, and is intended for the use of the intended recipient. It is the property of Lightspeed Solutions, LLC (dba Lightspeed Systems). If you have received this message in error, please notify us immediately by reply email, or by email to mail.admin@lightspeedsystems.com, and delete this message, along









Enter a domain or URL into the search engine to view details about its current URL categories. To request recategorization of this website, click Request Change below the search results. URL Enter a URL URL Categories Health-and-Medicine Risk Level: Low-Risk Category: Health-and-Medicine Description: Sites containing information regarding general health information, issues, and traditional and non-traditional tips, remedies, and treatments. Also includes sites for various medical specialties, practices and facilities (such as gyms and fitness clubs) as well as professionals. Sites relating to medical insurance and cosmetic surgery are also included



Your Partner in Cyber Security

Extra?

Gophish + Evilginx setup:

- ➤ Migrate Gophish from SQLite to MySQL
- Configure Evilginx to be able to access the database (deny access for anybody else)
- ➤ Make sure Gophish sends the RId to Evilginx
 - ✓ Parse RId and store it in the Session struct
 - ✓ Use RId to find the corresponding campaign ID and user email address
- > Implement code to connect to MySQL, fetch and update entries in the tables
- Update results table as if credentials were submitted
- > Update events table to provide details regarding the data captured
 - ✓ Username
 - ✓ Password
 - ✓ User-Agent
 - ✓ Capture Time
 - ✓ IP address
 - ✓ Session Cookie (not yet)

Next iterations:

- > Store session cookie in Gophish database + modify UI to include it
- > Add CAPTCHA/Cloudflare Check on landing page to avoid it being discovered
- > Ignore Gophish metrics if email/link was opened by an automated mechanism



Demo ?

- ➤ 2. How effective is "Blocking the Internet" ?
- ➤ 3. What is the Evilginx workflow and how does it integrates into Gophish ?

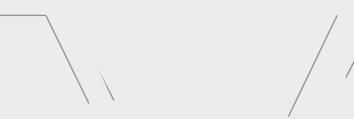
> 1. How to properly create a campaign in

Gophish

References ?



- https://rastamouse.me/infrastructure-ascode-terraform-ansible/
- https://www.ired.team/offensivesecurity/red-teaminfrastructure/automating-red-teaminfrastructure-with-terraform
- https://github.com/fin3ss3g0d/evilgophish





www.twelvesec.com

Thank you!

www.twelvesec.com
hello@twelvesec.com



