



Dagah User Manual

1.1.7

About Shevirah:

Shevirah is a U.S. company founded in 2015 by cybersecurity expert Georgia Weidman. We specialize in products for automated mobile and IoT device vulnerability assessment, penetration testing, and mobile security awareness training. Our capabilities compliment traditional Mobile Threat Defense (MTD), Enterprise Mobile Management (EMM), Mobile Device Management (MDM), or mobile app inspection tools. Shevirah's name comes from the Hebrew word for "shattering or breaking of vessels", reflecting the goals of cybersecurity assessment and testing. Shevirah's platform includes the patent pending Dagah software. We are headquartered in the greater Washington, D.C. area. Learn more, or request a free trial, at Shevirah.com.

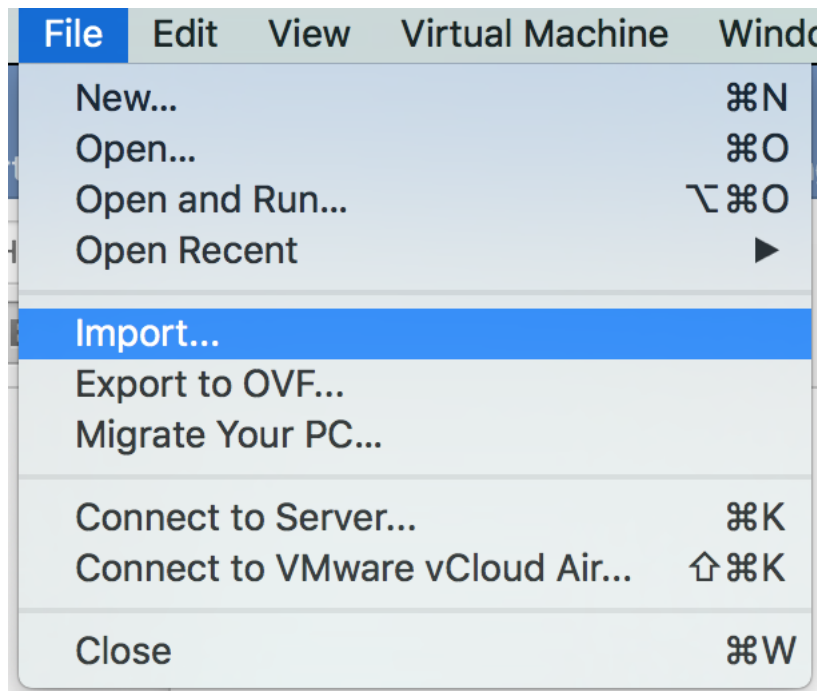
Installation

Virtual Machine

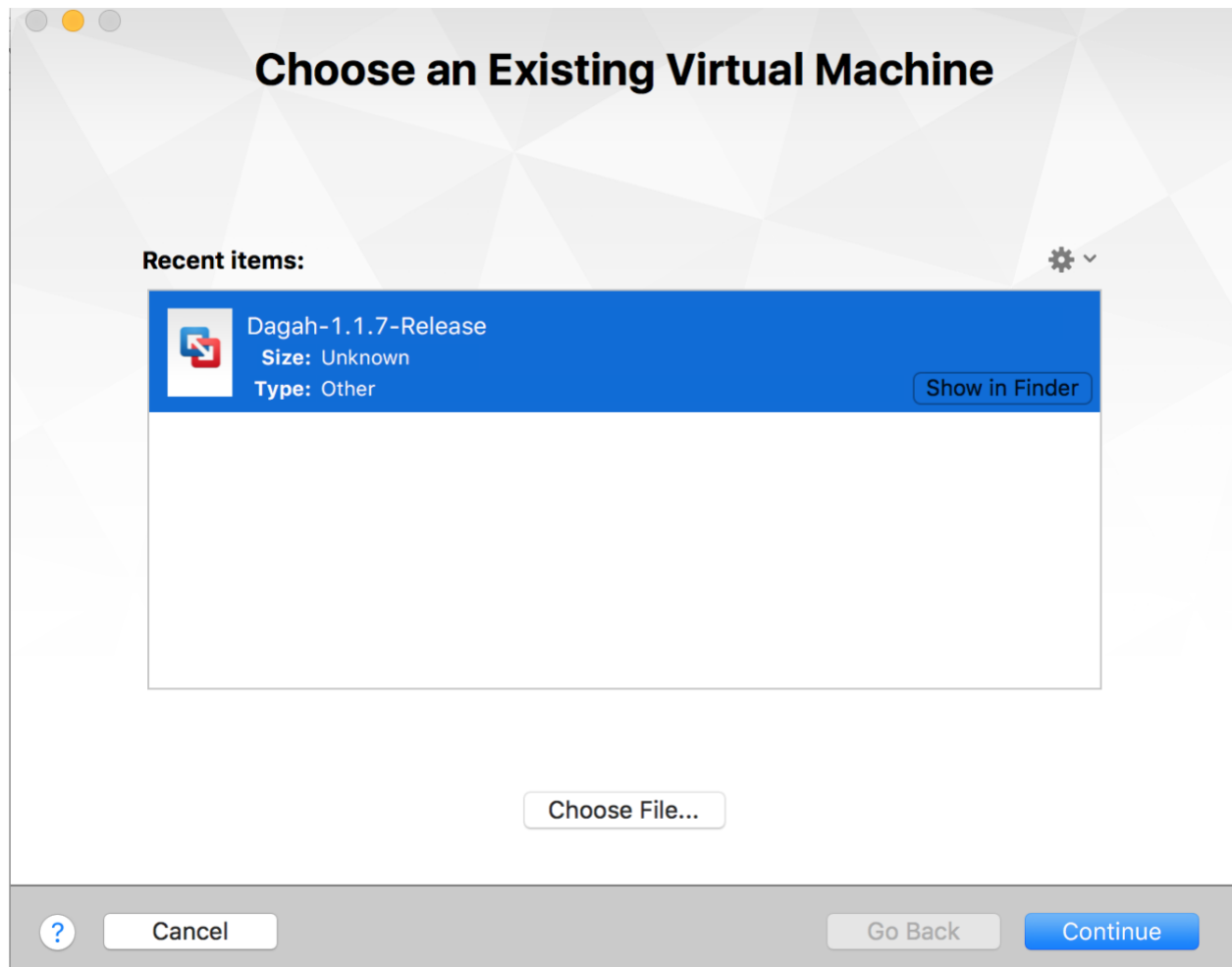
The virtual machine OVA can be imported into Vmware or Virtualbox. We will use Virtualbox in this guide.

Installing in Vmware:

To import the OVA into Vmware open Vmware and go to File->Import



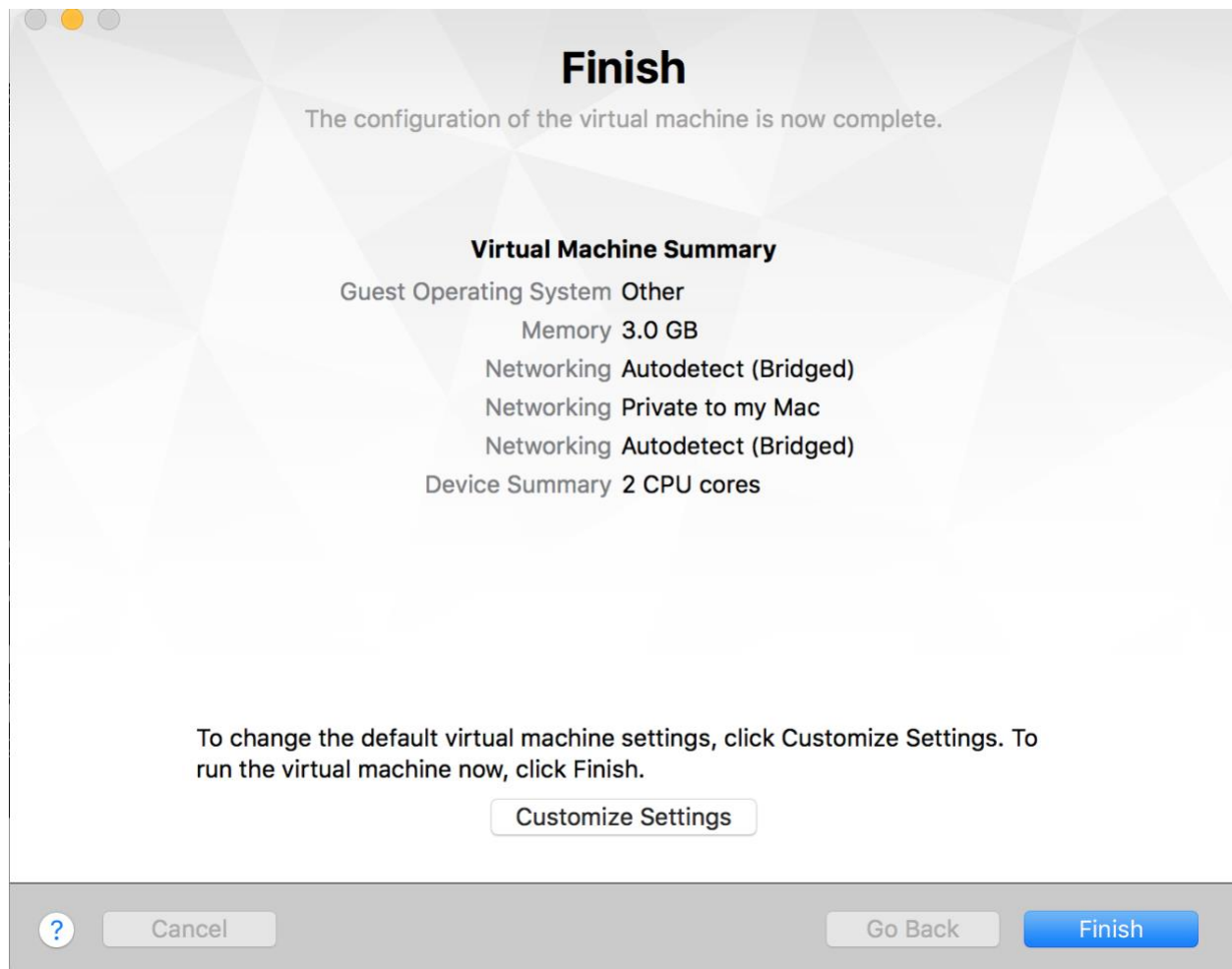
Select the OVA in the “Choose an Existing Virtual Machine” window.



Click continue. You may encounter an error about the OVF specification like the one shown below. This is a common issue with importing OVA files. Just click Retry and the import should continue without issue.



Once the import has finished click Finish and start the virtual machine.



Installing in Virtual Box:

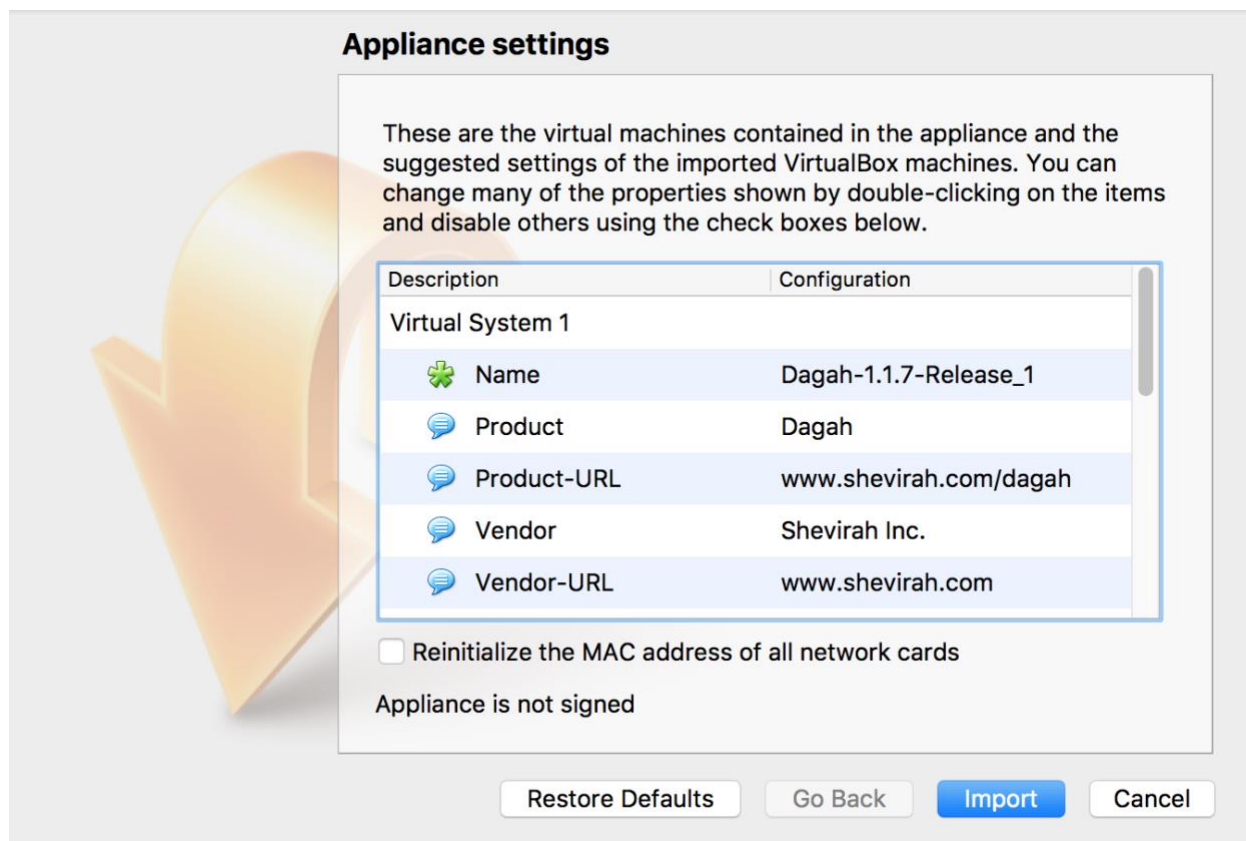
Note: If you are setting up a virtual machine for the first time, make sure that the network settings are correct.

Sometimes the defaults can be wrong.

Oracle, for example, has a nice explanation of the various option

<https://blogs.oracle.com/scoter/networking-in-virtualbox-v2>

Click on the .ova file you downloaded from the Shevirah website. It will open the import dialog in Virtual Box.



The virtual machine has DHCP enabled. You will need to find the IP address based on your local network. Log into the VM directly with the credentials **dagah:dagah**.

```
Dagah-1.1.4-Release [Running] : 1
You have the Auto capture keyboard option turned on. This will cause the Virtual Machine to automatically capture the
Kernel 3.10.0-327.36.3.el7.x86_64 on an x86_64

localhost login:

CentOS Linux 7 (Core)
Kernel 3.10.0-327.36.3.el7.x86_64 on an x86_64

localhost login: dagah
Password:
Last login: Sun Jul  9 01:51:29 from 192.168.0.152
[dagah@localhost ~]$ _
```

Once logged in run the command `ifconfig` and find the IP address on the local network. Yours will be different than mine as the Dagah VM uses DHCP.

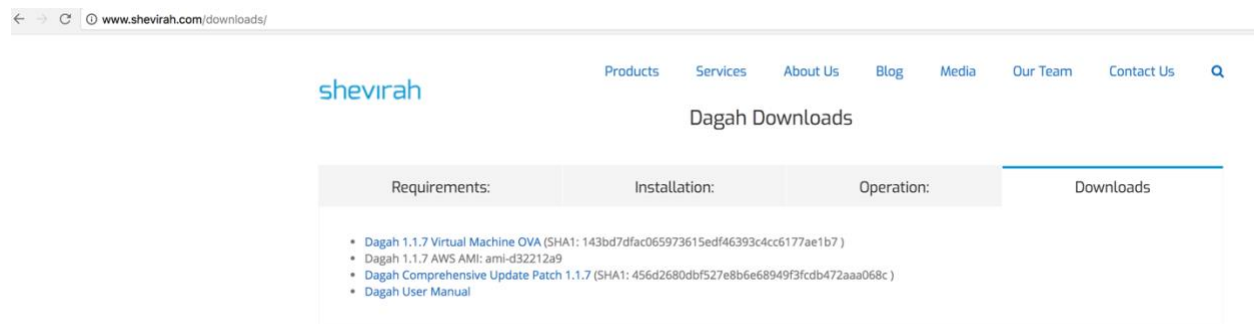
```
Password:
Last login: Sun Jul  9 01:51:29 from 192.168.0.152
[dagah@localhost ~]$ ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
    qlen 1000
    link/ether 08:00:27:76:73:6d brd ff:ff:ff:ff:ff:ff
3: enp0s8: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
    qlen 1000
    link/ether 08:00:27:3e:d8:c3 brd ff:ff:ff:ff:ff:ff
    inet 192.168.33.10/24 brd 192.168.33.255 scope global enp0s8
        valid_lft forever preferred_lft forever
    inet6 fe80::a00:27ff:fe3e:d8c3/64 scope link
        valid_lft forever preferred_lft forever
4: enp0s9: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP
    qlen 1000
    link/ether 08:00:27:3e:54:9c brd ff:ff:ff:ff:ff:ff
    inet 192.168.0.189/24 brd 192.168.0.255 scope global dynamic enp0s9
        valid_lft 85455sec preferred_lft 85455sec
[dagah@localhost ~]$
```

Use this IP address to log in to the web interface via HTTP. You can also log in via SSH to use the command line interface.

```
Georgias-MBP:Downloads georgiaweidman$ ssh dagah@192.168.0.189
dagah@192.168.0.189's password:
Last login: Tue Jul 18 03:14:14 2017 from 192.168.0.152
[dagah@localhost ~]$
```

AMI

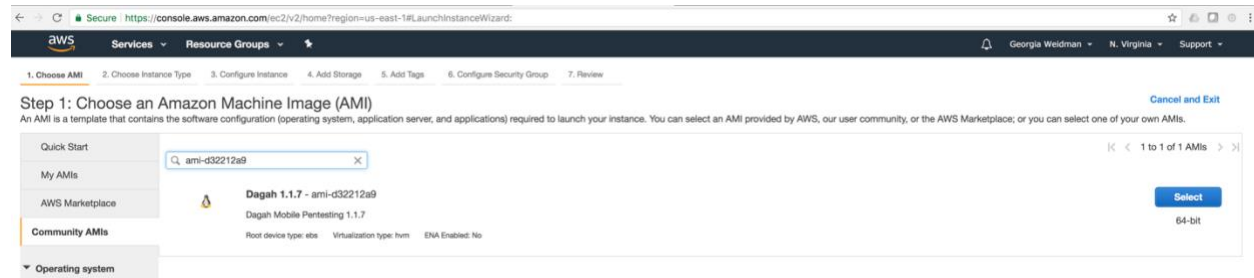
Alternatively, there is an AMI published on Amazon that you can import into your AWS account. The current AMI identifier is published at www.shevirah.com/downloads (ami-d32212a9 at the time of this writing).



The screenshot shows the Shevirah website's "Downloads" page. The page has a navigation bar with links for Products, Services, About Us, Blog, Media, Our Team, and Contact Us. Below the navigation bar, the page title "Dagah Downloads" is displayed. A table with four tabs (Requirements, Installation, Operation, Downloads) is shown. The "Downloads" tab is active, displaying a list of download links:

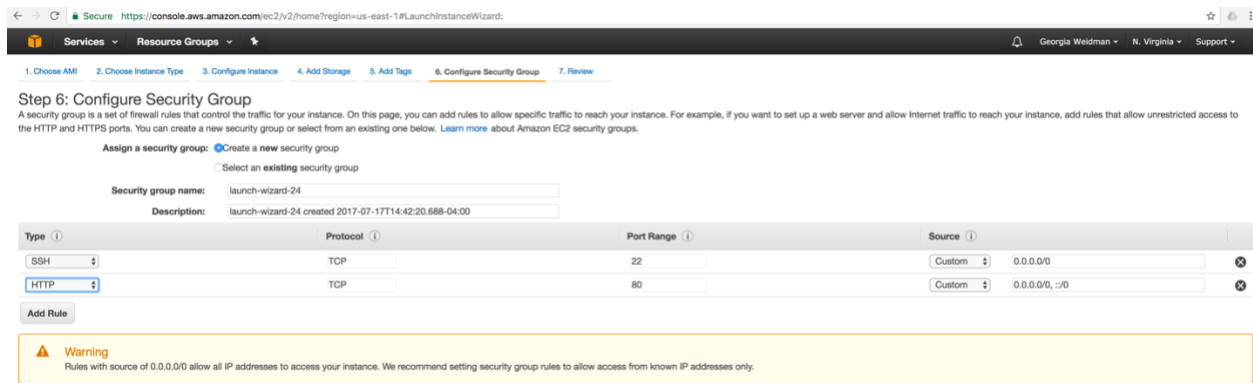
- Dagah 1.1.7 Virtual Machine OVA (SHA1: 143bd7dfac065973615edf46393c4cc6177ae1b7)
- Dagah 1.1.7 AWS AMI: ami-d32212a9
- Dagah Comprehensive Update Patch 1.1.7 (SHA1: 456d2680dbf527e8b6e68949f3fcd472aaa068c)
- Dagah User Manual

In your AWS EC2 account go to Launch Instance and choose “Community AMIs” on the left. Search for the AMI ID from the Shevirah website.



The screenshot shows the AWS Management Console's "Step 1: Choose an Amazon Machine Image (AMI)" screen. The page title is "Step 1: Choose an Amazon Machine Image (AMI)". Below the title, a search bar contains the text "ami-d32212a9". The search results show a single AMI: "Dagah 1.1.7 - ami-d32212a9". The AMI details include "Dagah Mobile Pentesting 1.1.7", "Root device type: ebs", "Virtualization type: hvm", and "ENA Enabled: No". A "Select" button is visible next to the AMI.

Select the Dagah AMI and launch it as you would any other Amazon instance. For the Security Group, Dagah needs HTTP (80) and SSH (22) open.



Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name:

Description:

| Type | Protocol | Port Range | Source |
|------|----------|------------|------------------|
| SSH | TCP | 22 | Custom 0.0.0.0/0 |
| HTTP | TCP | 80 | Custom 0.0.0.0/0 |

[Add Rule](#)

Warning
Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

The IP address you will use in the Setup section below is the external IP address assigned by EC2.

Setup

The Command Line

The Dagah command line interface is at `/home/dagah/dagah`. The GUI is a wrapper for the command line and thus the command line can do everything the GUI can do and then some.

You can run the command line interface with **`python dagah2.pyc`**

The configuration options for the command line are at `/home/dagah/dagah/config`. Open the file in your favorite editor to make changes. The only option you are required to set is the `IPADDRESS` (automatic setting at boot coming soon). We will look at editing some other option as they come up in this walkthrough. For now save the config file with `IPADDRESS=192.168.0.189` (change to your IP address). Otherwise you are ready to go.

The GUI

Alternatively, you can use the Dagah GUI. Browse to <http://192.168.0.189> (change to your IP address). You will be prompted to create a user account.

← → ↻ ⓘ Not Secure 192.168.0.189/dagah_faaccounts.html ☆

Current User Access List

| ID | Name | Username | Admin | User | Last Logon |
|----|------|----------|-------|------|------------|
|----|------|----------|-------|------|------------|

Create New Account

User Rights ☐

Admin Rights ☒

Create

Log in as the user you just created.

← → ↻ ⓘ Not Secure 192.168.0.189/login.html

Dagah Sign In

Submit

The first time you log in you will be prompted to read and accept a license agreement.

← → ↻ ⓘ 192.168.0.189/dagah_license.html

END-USER LICENSE AGREEMENT

IMPORTANT-READ CAREFULLY:

This End-User License Agreement ("Agreement") is a binding legal agreement between you (either an individual or a single entity) and Shevirah, Inc. ("Shevirah") for the freeware version of the software that accompanies this Agreement and includes "online" or electronic documentation, and Internet-based services ("Software"). BY CLICKING ON THE "ACCEPT" BUTTON DURING THE INSTALLATION PROCESS OR BY OTHERWISE INSTALLING, COPYING, OR USING THE SOFTWARE YOU AGREE TO BE BOUND BY THE TERMS OF THIS AGREEMENT. IF YOU DO NOT AGREE, DO NOT INSTALL, COPY, OR USE THE SOFTWARE.

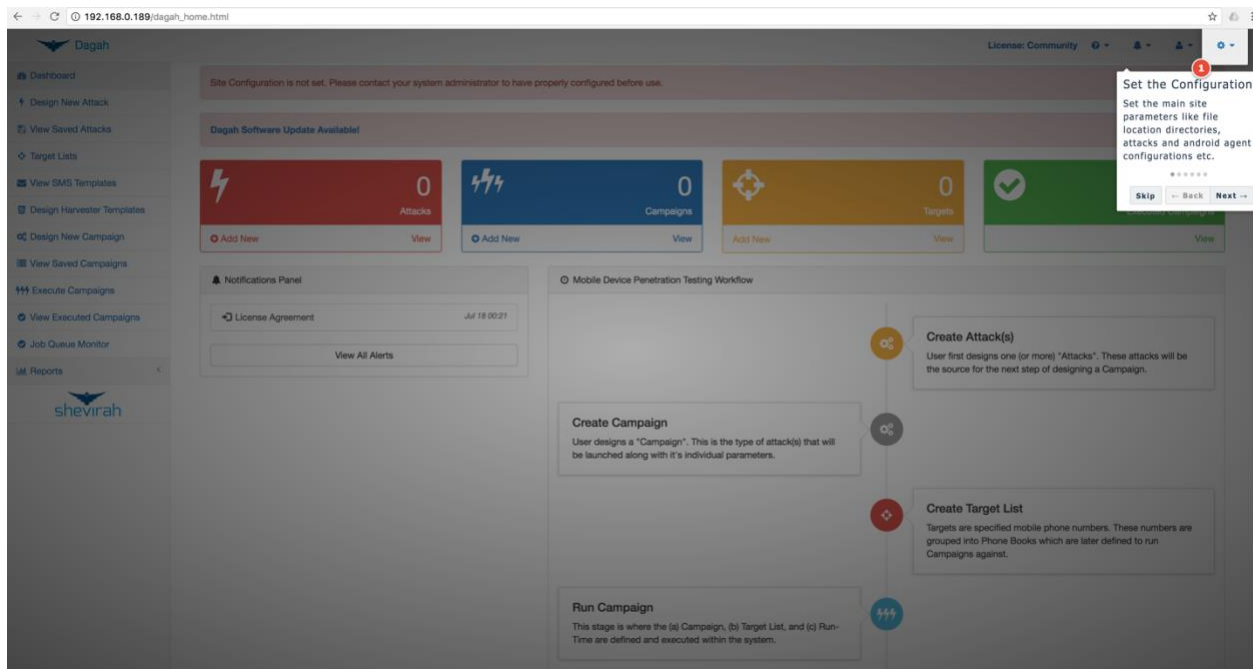
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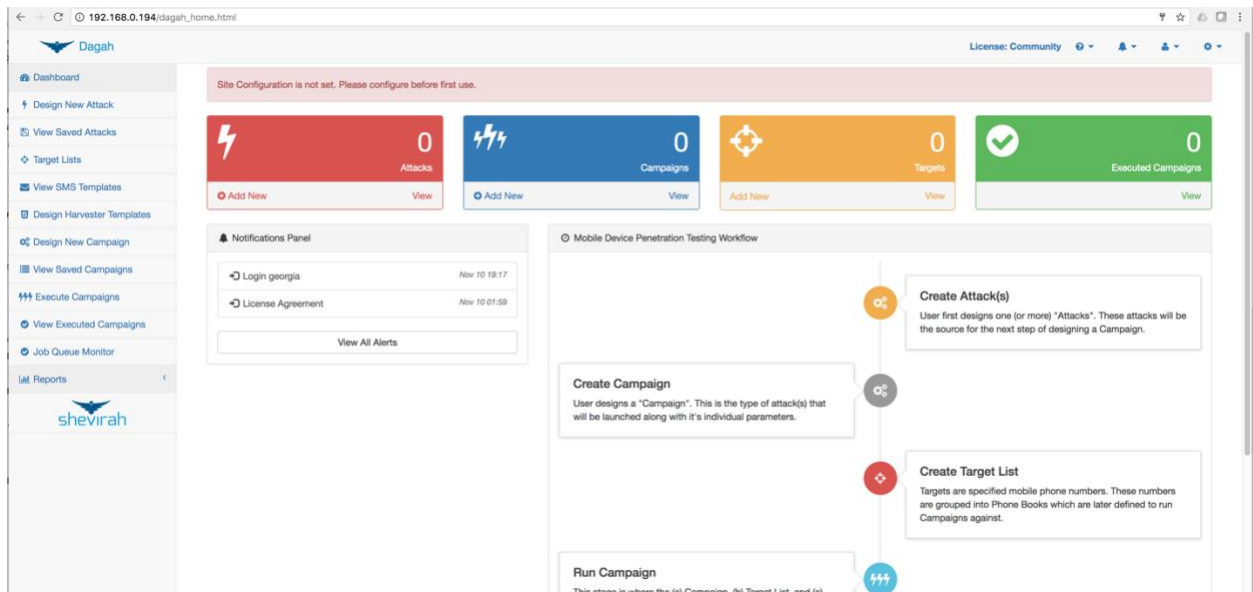
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The first time you log in a little box walks you through the steps of using Dagah. You can walk through it with the Next-> button or skip through it with the Skip button if you'd rather read it all here.

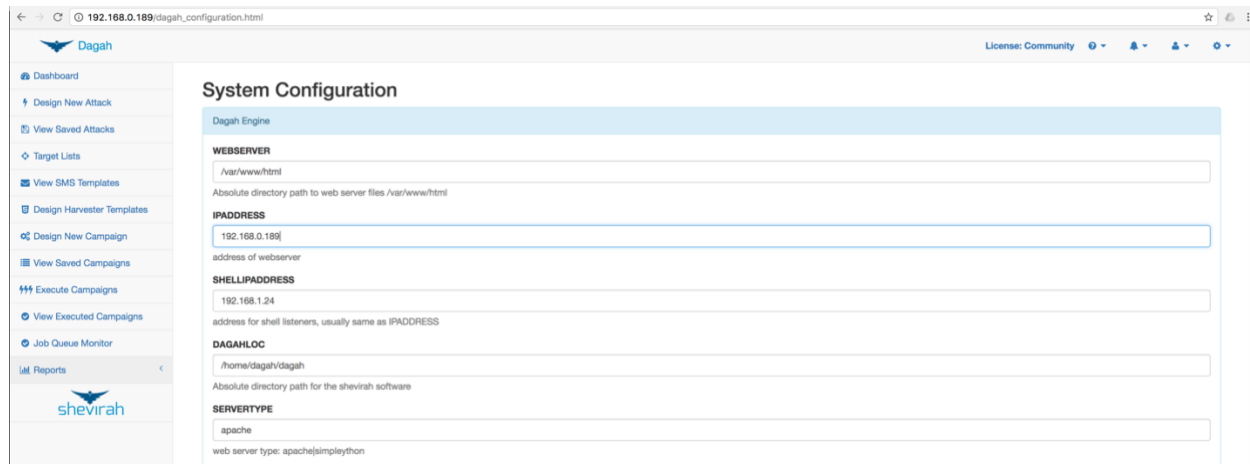


You will see a message that the Site Configurator is not set. Click the gear icon on the top right and select Site Configuration.



The only option you need to set to use Dagah is the IP address (auto configuration of IP coming soon).

Set the IP Address field to 192.168.0.189 (change to your IP).



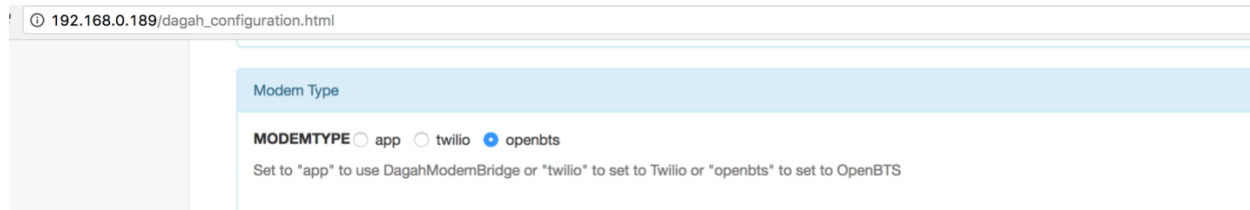
The screenshot shows the 'System Configuration' page of the Dagah GUI. The left sidebar contains navigation links: Dashboard, Design New Attack, View Saved Attacks, Target Lists, View SMS Templates, Design Harvester Templates, Design New Campaign, View Saved Campaigns, Execute Campaigns, View Executed Campaigns, Job Queue Monitor, and Reports. The main content area is titled 'System Configuration' and contains the 'Dagah Engine' configuration section. The fields are as follows:

| Field | Value |
|----------------|-------------------|
| WEBSERVER | /var/www/html |
| IPADDRESS | 192.168.0.189 |
| SHELLIPADDRESS | 192.168.1.24 |
| DAGAHLLOC | /home/dagah/dagah |
| SERVERTYPE | apache |

Scroll to the bottom of the page, and save the configuration. You will be prompted to log in again. You are now ready to use the Dagah GUI. We will discuss some other configuration options as we walk through some Dagah use cases.

Mobile Modems

Dagah allows you to send attacks over other communication methods besides traditional TCP/IP, as mobile devices and IoT speak a variety of communication methods mobile modem, Zigbee, Bluetooth, etc. as the case may be. If you are going to use a delivery method that requires a mobile modem, attach one through the configuration page.



The screenshot shows the 'Modern Type' configuration section. The MODEMTYPE field has three radio buttons: app, twilio, and openbts. The openbts option is selected. Below the radio buttons, there is a text box for setting the modem type.

| Field | Value |
|-----------|--------------------|
| MODEMTYPE | app twilio openbts |

App

The Dagah Mobile Modem App for Android allows you to use the mobile modem in the device to send attacks over SMS, NFC, and Bluetooth. To install the application on your Android device browse to <http://192.168.0.189/DagahModemBridge.apk> (change IP address to yours). You can also directly download the DagahModemBridge.apk from the link in the DagahModemBridge Configuration section of the Site Configuration page shown below.

DagahModemBridge Configuration (Download Dagah Modem Bridge)

MODEMNUMBER

15555555555

phone number of SMS bridge phone

MODEMKEY

KEYKEY1

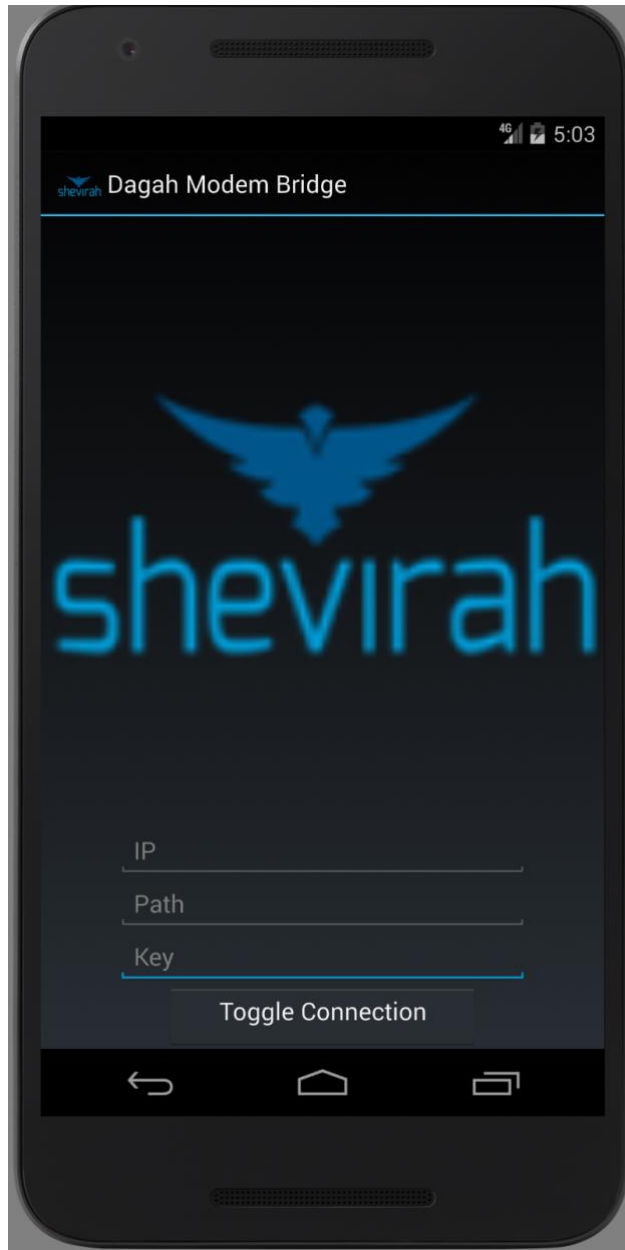
key for modem

MODEMPATH

/androidapp

Relative directory path under WEBSERVER for modem control path

Install the app. You will be presented with a screen the one shown below.



The IP address should be set to the IP of the VM. The path is where it checks in on the webserver and the key is going to be phased out for Virgil security crypto soon. Path and key should match the configuration options on the server configuration page (or config file for command line).

DagahModemBridge Configuration

MODEMNUMBER
1555555555
phone number of SMS bridge phone

MODEMKEY
KEYKEY1
key for modem

MODEMPATH
/androidapp
Relative directory path under WEBSERVER for modem control path

The default path is /androidapp and the default key is KEYKEY1. After filling in the information click the Toggle Connection button. If the app is able to connect to the server you will see Connected on the app.



The app will periodically check in with the server for commands. To disconnect click Toggle Connection again and the Connected message will disappear.

OpenBTS

Dagah can attach to an OpenBTS based system to simulate a rogue cell tower. To use OpenBTS toggle the Modem Type radio button in the Site Configurator to openbts.

Modem Type

MODEMTYPE ☐ app ☐ twilio ☒ openbts

Set to "app" to use DagahModemBridge or "twilio" to set to Twilio or "openbts" to set to OpenBTS

The OpenBTS system needs to have SSH enabled for Dagah to log in. Fill out the OpenBTS Configuration section on the Configuration page with the IP address, username, and password to log in to the OpenBTS box.

Open BTS Configuration

OPENBTSIP
192.168.0.21
IP for OpenBTS Box

OPENBTSUSER
openbts
SSH Username for OpenBTS Box

OPENBTSPASS
openbts
SSH Password for OpenBTS Box

OPENBTSSENDER
6666
From Number for OpenBTS SMS Messages

The OPENBTSSENDER option is the sender phone number for SMS messages. OpenBTS allows you to spoof this field.

Twilio

Dagah can also hook up to the Twilio service to send text messages. To use Twilio toggle the Modem Type radio button in the Site Configurator to twilio.

Modem Type

MODEMTYPE ☐ app ☒ twilio ☐ openbts

Set to "app" to use DagahModemBridge or "twilio" to set to Twilio or "openbts" to set to OpenBTS

Sign up for a Twilio account at [twilio.com](https://www.twilio.com).



You will need your Account SID and Auth Token from Twilio. You will also need a Twilio number for the sender number.

Log into your Twilio account. At the Console Dashboard you will see your Account SID (blurred for my account details in the screenshot below). Right beneath it is your Auth Token. Click the eye symbol to make it readable.

Secure | https://www.twilio.com/console

CONSOLE

[Home](#)
[Dashboard](#)
[Billing](#)
[Usage](#)
[Settings](#)

Console Dashboard

Account Summary

ACCOUNT SID

AUTH TOKEN

BALANCE

+\$12.77154

Auto Recharge is OFF

[Account Details](#)

Recently Used Products

Phone Numbers
[Buy a Number](#)

Programmable SMS
[View Logs](#)

All Twilio Products

Communications Cloud

Programmable SMS

Build intelligent SMS logic and apps in web applications over local, toll-free, and short-code numbers globally from one API.

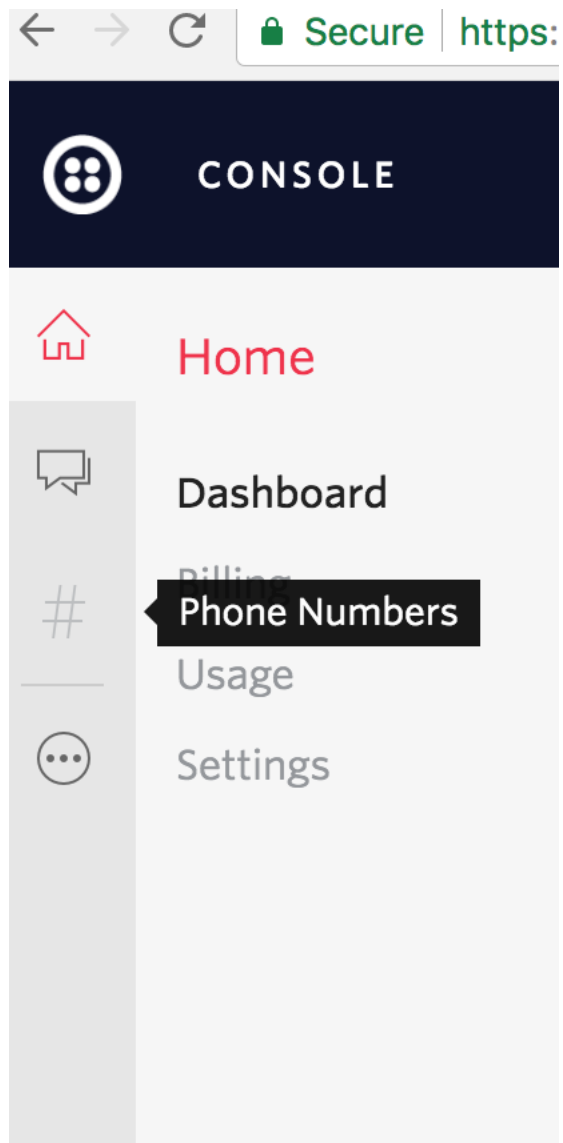
Programmable Voice

Twilio's voice application stack combines the APIs. It's an all-in-one phone call powerhouse communications.

News & Tips

Where in the world is Twilio?
Interested in testing the latest phone numbers [preview](#)

To get a Twilio number to use with Dagah click the # sign on the left hand menu of the Console Dashboard.



Next click the red + to buy a Twilio number.



Based on the type of phishing attack you want to perform, the location of your client, etc. you may want to look for a specific area code, number similar to a number known to your target etc. with the Search function.

CONSOLE

Phone Numbers

Home / Phone Numbers / Buy a Number

Manage Numbers

Buy a Number

Verified Caller IDs

Port Requests

Addresses

Documents

Tools

Usage

Getting Started

COUNTRY **United States (+1)** [Can't find the country you need? Please let us know.](#)

Number MATCH TO **First part of number** [?](#)

Search by area code, prefix, or characters you want in your phone number.

CAPABILITIES ☒ ANY | ☐ Voice ☐ Fax ☐ SMS ☐ MMS

Different numbers have different communications capabilities. Select the ones your phone number needs.

[Search](#) [Show Advanced Search](#)

Choose a number from the resulting list and click Buy on the right hand side.

CONSOLE

Home / Phone Numbers / Buy a Number

Buy a Number

United States (+1) Number Capabilities [Search](#) [Clear Results](#)

Search Term Match: First part of number Type: All Requirement: Any [Show Advanced Search](#)

| NUMBER | TYPE | CAPABILITIES | PRICE |
|--|-------|-------------------|--|
| | | VOICE SMS MMS FAX | |
| +1 (703) 997-2203 ALEXANDRIA, VA | Local | | \$1.00 monthly Buy |
| +1 (703) 596-8414 NOKEVILLE, VA | Local | | \$1.00 monthly Buy |
| +1 (703) 997-7994 ALEXANDRIA, VA | Local | | \$1.00 monthly Buy |

Enter your new number along with your Sid and Token in the Twilio Configuration section of the Site Configurator.

Twilio Configuration

TWILIOSID

SID for Twilio account (create at [Twilio Site](#))

TWILIO_TOKEN

Token for Twilio account (create at [Twilio Site](#))

TWILIONUMBER

Phone Number for Twilio account (create at [Twilio Site](#))

(More modem options coming soon)

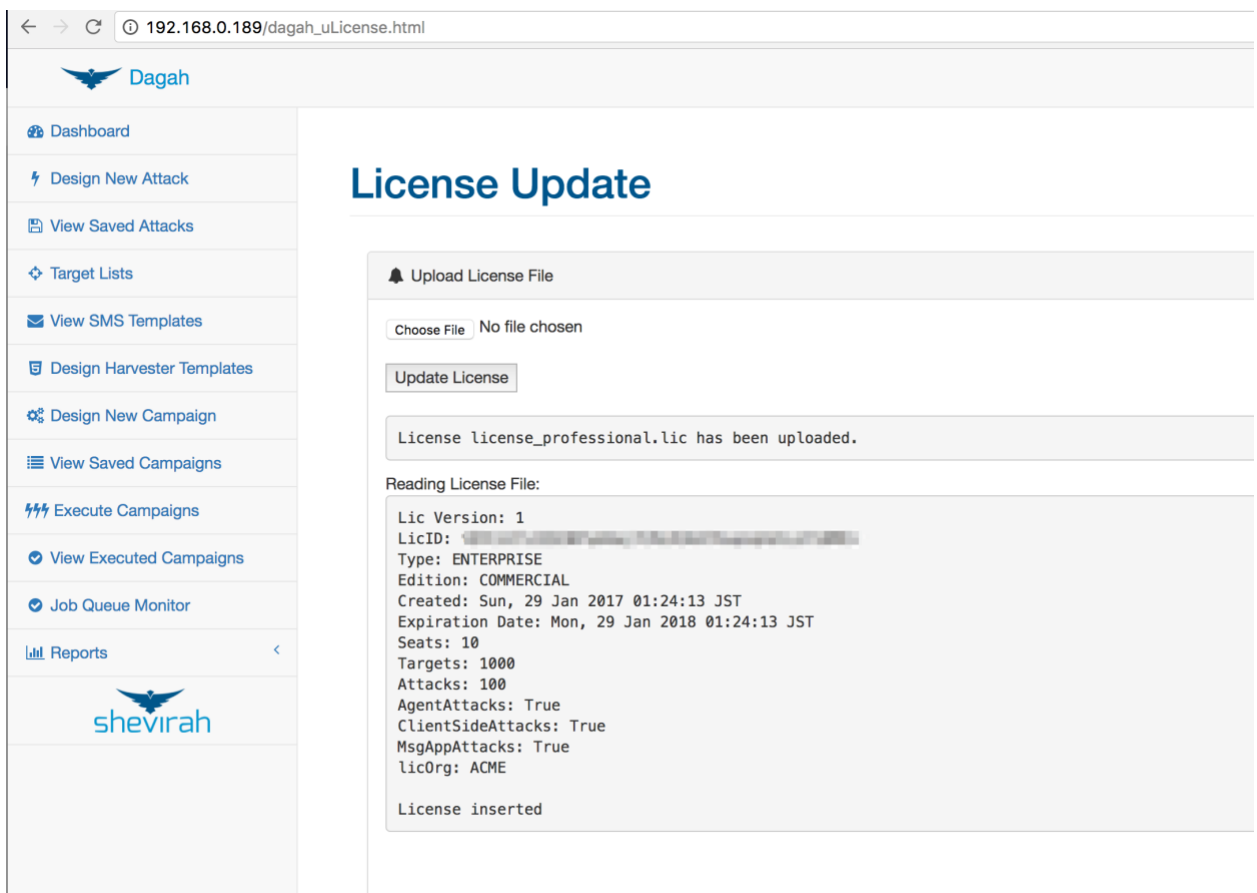
Licensing:

By default, Dagah is the Community version. It is free but limited in capabilities. Good for broke researchers and people who want to get to know the product before buying a professional license.

To insert a different license, click on License:Community at the top right.



Click Choose License and select your license file from the file browser dialog. It should be a .lic file. Click Update License.



When you log in again you should see License:PROFESSIONAL or License:ENTERPRISE at the top right based on the license you have.

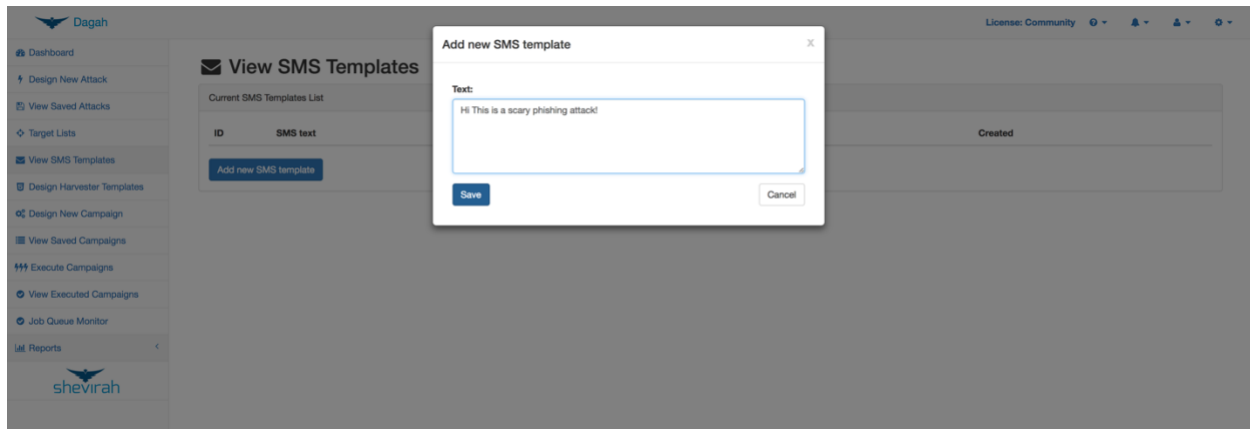
Attack Methods

SMS

Dagah can send text messages using the Dagah Modem App, Twilio, or OpenBTS.

In addition to entering text for the text message, you can save templates of common attacks.

To create an SMS template go to View SMS Templates in the menu on the left side of Dagah. Click Add new SMS template and enter the text.



Near Field Communication (NFC)

Dagah can deliver attacks via NFC tags using the DagahModemBridge App.

QR Code

Dagah can create QR Code representation of attack links. A modem is not necessary. The user can deliver the QR code to targets however they like. For example, on a pilot engagement Shevirah's team made a poster that appeared to be for a discount code for a restaurant in the same building as the target organization. The poster with the QR code prompting employees to download an agent version of the restaurant's mobile app (more on that later) was hung in the company's break room.

Email

Currently supports Gmail.

External

For customers who are only interested in post exploitation and return of investment of currently deployed mobile security controls testing, external delivery will set up the attack but leave delivering post exploitation agents to the user.

Messaging Apps

Dagah can also hook up to messaging apps to deliver attacks. Connecting message apps is currently only supported on the command line (GUI support coming soon).

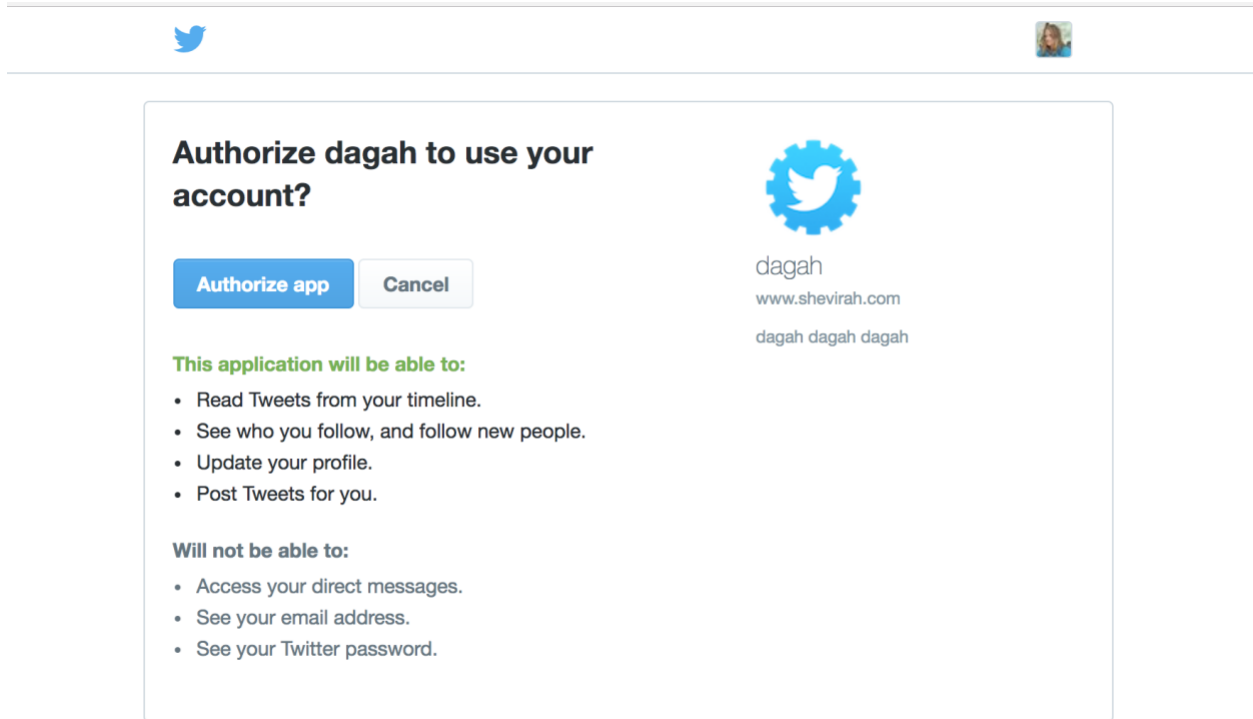
Twitter

To connect to twitter run the command `python dagah2.pyc Connect twitter`

```
[dagah@localhost dagah]$ python dagah2.pyc Connect twitter
Lic:
Version: 1
LicID: xxxxx
Type: ENTERPRISE
Edition: COMMERCIAL
Created: Sun, 29 Jan 2017 01:24:13 JST
Expiration Date: Mon, 29 Jan 2018 01:24:13 JST
Seats: 10
Targets: 1000
Attacks: 100
AgentAttacks: True
ClientSideAttacks: True
MsgAppAttacks: True
licOrg: ACME

Dagah License Unchanged
Lic: free = 0
Dagah 2 --scripted configurations and XML input output
Go to the following link in your browser:
https://api.twitter.com/oauth/authorize?oauth\_token=XXX
Have you authorized me? (y/n)
```

You will be presented with a link to enter into your browser.



You will be asked to authorize the app. When you click the button, you will be redirected to a page that will give you a PIN to enter into the command line.



Enter the PIN at the command line.

```
Have you authorized me? (y/n) y
What is the PIN? XXXXX
Save these to your config file:
TWITTERACCESSTOKEN = XXXXXXXXXXXXXXXXXXXX
TWITTERACCESSTOKENSECRET = XXXXXXXXXXXXXXXXXXXX
```

Save the TWITTERACCESSTOKEN and TWITTERACCESSTOKENSECRET in the config file in /home/dagah/dagah (of the GUI Site Configuration page).

Whatsapp

Currently down due to changes in the Whatsapp API. Functionality to be restored in the next release.

Attacks:

Basic

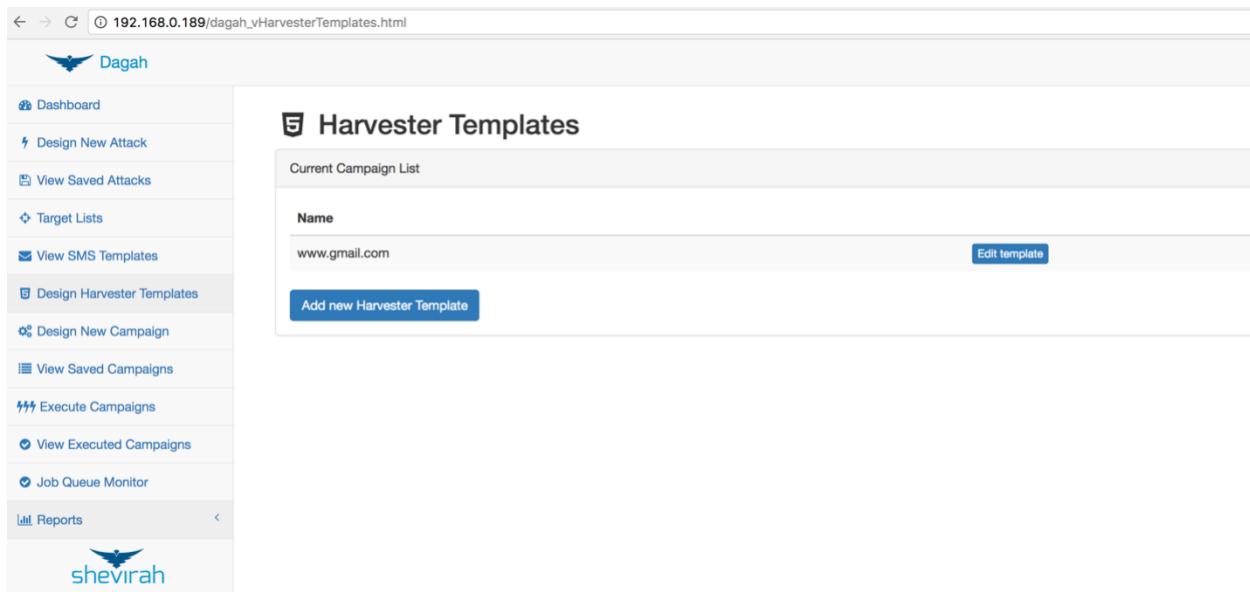
If you just want to see who clicked, scanned, etc. a kind of attack and are not interested in post exploitation at this point, use basic.

Harvester

Harvester is common in email phishing. This is the same concept where the target will be presented with a login page that will harvest the submitted credentials. You can clone a website or make a template.

Harvester Templates

To save a harvester template click Design Harvester Templates on the left hand menu of the Dagah GUI.



There is one (more to come) built in template for www.gmail.com made up of separate username and password pages.

To add a template click Add new Harvester Template. Name the template and the url to clone as a base to edit.

Add harvester template

X

Enter the new template name (must be unique and should be the domain name of the site e.g. salesforce.com)

Load template's index.html page from URL (e.g. login.salesforce.com):

Load

HTML

Preview

Edit html to remove client-side validation scripts and update the POST action to `"/post.php"` or to `"/index2.html"` if necessary.

```
1 <html> <head> <title>Login | MailChimp - email marketing made easy</title> <link rel="canonical"
2 var xhr_open = XMLHttpRequest.prototype.open;
3 XMLHttpRequest.prototype.open = function(method, url, async, user, password) {
4     xhr_open.call(this, method, url, async, user, password);
5     if (async === true && url.match(/^\/(?!\/)+/)) {
6         this.setRequestHeader('X-CSRF-Token', 'e2db21a3ed0852ecc2ab5a8dbfdb7b1f9e9070ef');
7     }
8 }
9 </script> <script src="/release/11.7.1118/js/dojo/dojo.js" data-dojo-config="parseOnLoad: true,
10     dojo.require("dojo.utils");
11     require(["dojo/widgets/Dialog"]);
12     // Leaving it globally since we used it around
13     var rootUrl = '/';
14
15     require([
16         "dojo/_base/lang",
17         "dojo/user",
18         "dojo/context",
19     ], function (lang, user, context) {
20         // Add defaults to the actual modules.
21
22         lang.mixin(context, {
23             'rootUrl': '/',
24
25             'proxyBaseUrl': "https://d2q0qd5iz04n9u.cloudfront.net/_ssl/proxy.php",
26
27             'listManageDomain': "list-manage.com",
28
29             'pusherKey': "74d7188a67461f12439a",
30
31             'apiKey': "74d7188a67461f12439a"
```

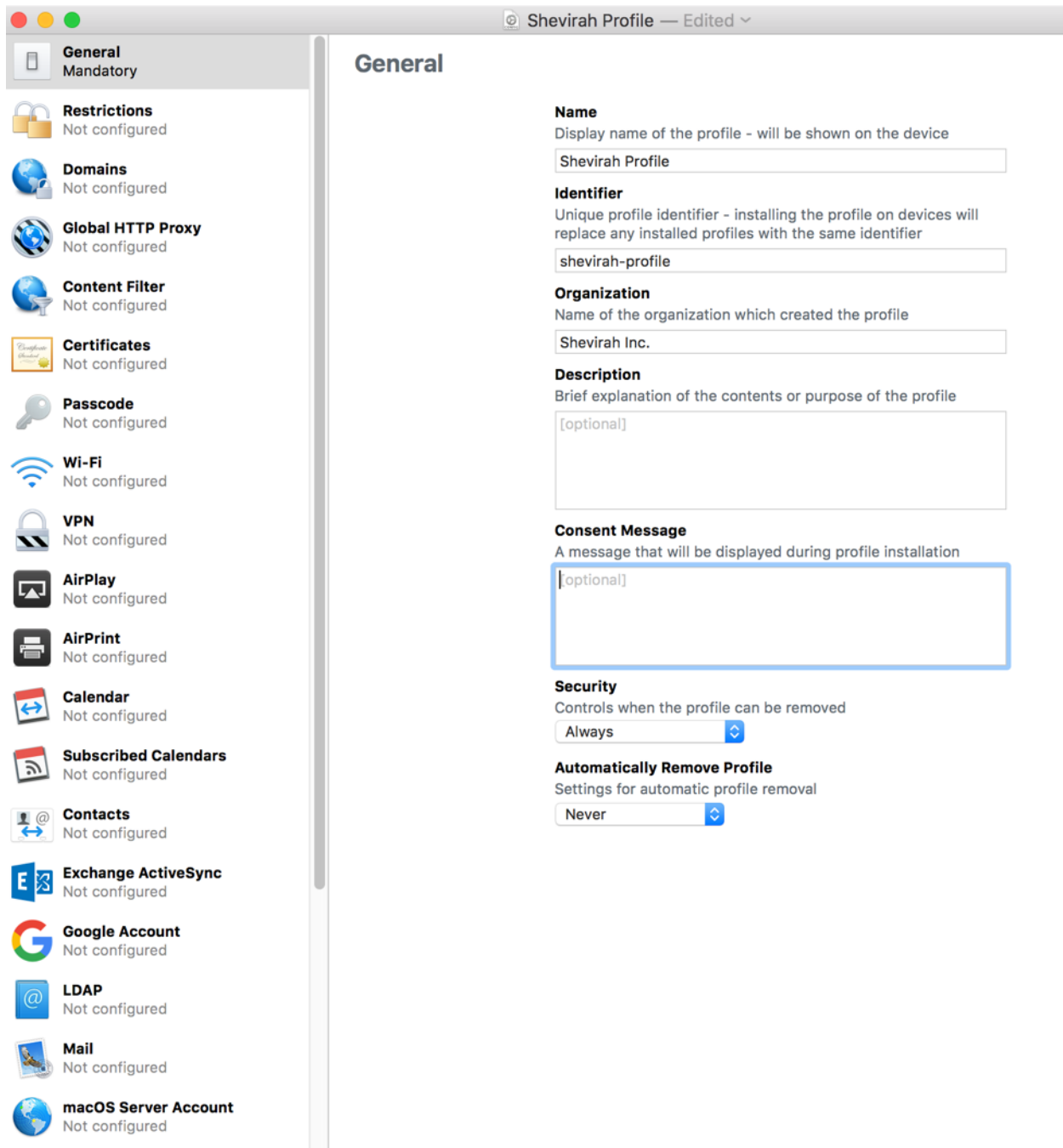
Save

Cancel

You can make changes to the HTML and Preview it before saving.

Profiles

Dagah will also let you deliver iOS configuration profiles created with Apple Configurator 2.



Profiles can be used to change security settings and install apps outside of the Apple App Store. Shevirah published a whitepaper on attacking iOS with malicious profiles (get paper up and linked here).

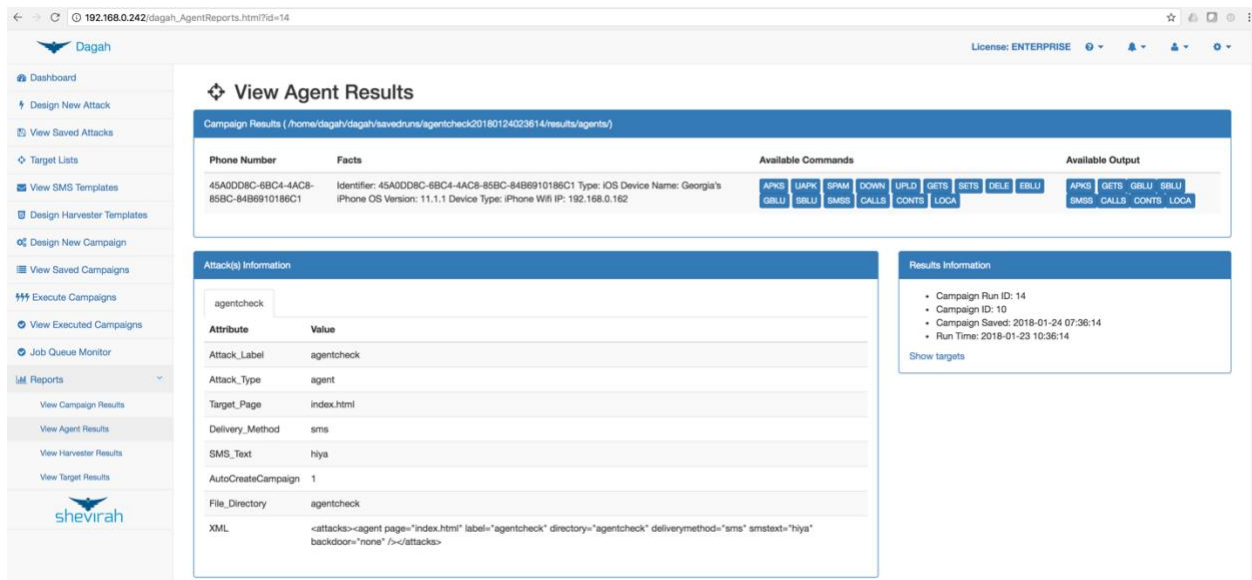
Agents

Agents simulate malicious applications. There are agents for Android and iOS currently. They can be used for post exploitation such as information gathering, pivoting, remote control of the device, and testing return on investment on security controls.

Remote/Client Side vulnerabilities (coming soon)

Agent Post Exploitation

Once an agent is in place it can be used for post exploitation. There is much more of this coming soon and some in the command line I just haven't ported into the GUI yet. After an agent campaign in the GUI under reports go to View Agent Results and choose the Campaign run (more on campaigns and runs in the GUI example later).



The screenshot displays the 'View Agent Results' page in the Dagah GUI. The page is titled 'View Agent Results' and shows details for a specific campaign run. The main content area is divided into several sections:

- Campaign Results**: A table showing the phone number, facts, and available commands. The phone number is 45A0DD8C-68C4-4AC8-85BC-84B6910186C1. The facts include Identifier, Type, iOS Device Name, iPhone OS Version, Device Type, and IP. The available commands are listed in a grid.
- Attack(s) Information**: A table showing the attack details. The attack is labeled 'agentcheck' and has a value of 'agentcheck'. The attack type is 'agent', the target page is 'index.html', the delivery method is 'sms', the SMS text is 'hiya', and the auto-create campaign is set to 1. The file directory is 'agentcheck' and the XML payload is shown.
- Results Information**: A box containing campaign run details, including Campaign Run ID, Campaign ID, Campaign Saved date, and Run Time.

The left sidebar contains navigation links for various dashboard functions, and the top right shows the user's license as 'ENTERPRISE'.

Click a button to run the associated post exploitation command. If the command has output, the associated buttons are of the right side.

← → ↻ 192.168.0.189/dagah_AgentReports.html?id=6 ☆

Dagah

License: ENTERPRISE

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Dashboard

Design New Attack

View Saved Attacks

Target Lists

View SMS Templates

Design Harvester Templates

Design New Campaign

View Saved Campaigns

Execute Campaigns

View Executed Campaigns

Job Queue Monitor

Reports

View Campaign Results

View Agent Results

View Harvester Results

View Target Results

shevirah

View Agent Results

Campaign Results (/home/dagah/dagah/savedruns/blah)

| Phone Number | Facts |
|--------------|--|
| 15550215556 | Phone Number: 15555215556 Type: Android 01422-gd3floc7 -dirty |

Attack(s) Information

| Attribute | Value |
|--------------------|---|
| Attack_Label | blah |
| Attack_Type | agent |
| Target_Page | index.html |
| Delivery_Method | sms |
| SMS_Text | Hi This is a scary phishing attack! |
| AutoCreateCampaign | 1 |
| File_Directory | blah |
| XML | <attacks><agent page="index.html" label="blah" directory="blah" deliverymethod="sms" smstext="Hi This is a scary phishing attack!" backdoor="none" /></attacks> |

APKs (Applications) Output

com.android.soundrecorder com.android.sdksetup com.android.launcher
com.android.defcontainer com.android.smoketest com.android.quicksearchbox
com.android.contacts com.android.inputmethod.latin com.android.phone
com.android.calculator2 com.android.proxyhandler com.android.htmlviewer
com.android.emulator.connectivitytest com.android.providers.calendar
com.android.inputdevices com.android.customtabs2 com.shevirah.androidagent
com.android.calendar com.android.browser com.android.music com.android.net
com.android.widgetpreview com.example.android.livecubes
com.android.providers.downloads.ui com.android.providers.userdictionary
com.android.documentui com.android.inputmethod.pinyin
com.android.sharedstoragebackup com.android.vpndialogs com.android.mms
com.android.pacprocessor com.android.providers.media com.android.certinstaller
com.example.android.apis com.android.printspooler com.android.fellback
com.android.gesture.builder com.android.gallery android com.android.settings
com.android.providers.contacts com.android.protips com.android.externalstorage
com.android.dreams.basic com.android.development_settings
com.example.android.softkeyboard com.android.exchange com.android.systemui
com.android.wallpaper.livepicker com.android.speechrecorder com.android.keychain
com.android.emulator.gps.test com.android.packageinstaller com.android.development
com.android.smoketest.tests com.android.providers.telephony com.svox.pico
com.android.camera.jp.co.omronsoft.openwmm com.android.email com.android.dialer
com.android.desklock com.android.location.fused com.android.backupconfirm
com.android.providers.settings com.android.keyguard com.android.shell
com.android.providers.downloads

Available Commands

Kernel Version: 3.4.67-
APK UAPK SPAM DOWN UPLD GETS SETS APK3 GETS
DELE

Available Output

Results Information

• Campaign Run ID: 6
• Campaign ID: 2
• Campaign Saved: 2017-07-18 08:28:02
• Run Time: 2017-07-17 11:28:02

Show targets

← → ↻ 192.168.0.252/dagah_AgentReports.html?id=17 ☆

Dagah

License: ENTERPRISE

🔍 🗲 📢 ⚙

Dashboard

Design New Attack

View Saved Attacks

Target Lists

View SMS Templates

Design Harvester Templates

Design New Campaign

View Saved Campaigns

Execute Campaigns

View Executed Campaigns

Job Queue Monitor

Reports

View Campaign Results

View Agent Results

View Harvester Results

View Target Results

shevirah

View Agent Results

Campaign Results (/home/dagah/dagah/savedruns/)

| Phone Number | Facts |
|--------------|---|
| 16017502059 | Phone Number: +16017502059 Type: Android SDK Version: 24 IMEI: 355502071372524 WiFi IP: 192.168.0.155 Baseband Version: G930AUCS4BQJ2 Model: SAMSUNG-SM-G930A Kernel Version: 3.18.31-11614766 |

Attack(s) Information

| Attribute | Value |
|--------------------|---|
| Attack_Label | calls |
| Attack_Type | agent |
| Target_Page | index.html |
| Delivery_Method | sms |
| SMS_Text | Hello Georgia |
| AutoCreateCampaign | 1 |
| File_Directory | calls |
| XML | <attacks><agent page="index.html" label="calls" directory="calls" deliverymethod="sms" smstext="Hello Georgia" backdoor="none" /></attacks> |

LOCA (Get Last Location) Output

Latitude: 38.99840534 Longitude: -77.48543964
Map Location

Available Commands

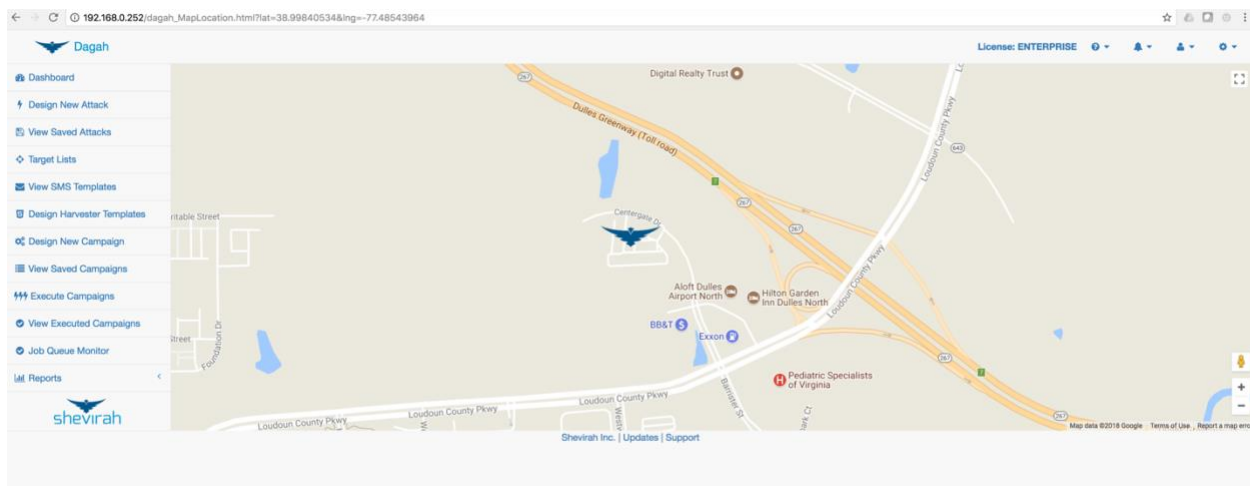
APK3 UAPK3 SPAM DOWN UPLD GETS SETS DELE
EBLU GBLU SBLU SMSS CALLS CONTS LOCA

Available Output

Results Information

• Campaign Run ID: 17
• Campaign ID: 4
• Campaign Saved: 2018-01-07 10:26:55
• Run Time: 2018-01-07 01:26:55

Show targets



Using the Command Line

Here's an example of using the command line interface to run an agent attack. To get basic help information just run `python dagah2.pyc`.

```
[dagah@localhost dagah]$ python dagah2.pyc
Lic:
Version: 1
LicIDXXXX
Type: ENTERPRISE
Edition: COMMERCIAL
Created: Sun, 29 Jan 2017 01:24:13 JST
Expiration Date: Mon, 29 Jan 2018 01:24:13 JST
Seats: 10
Targets: 1000
Attacks: 100
AgentAttacks: True
ClientSideAttacks: True
MsgAppAttacks: True
LicOrg: ACME

Dagah License Unchanged
Lic: free = 0
Dagah 2 --scripted configurations and XML input output
Options:
    Campaign <campaignconfigfile>.xml          (create a saved campaign of phishing attacks)
    list                                         (list saved campaign details)
    Run <numbersfile>.txt <campaign> [savefilename] (run saved campaign against target phone
numbers)
    Report <saveditrunfile>                     (get results of last run)
    Delete Campaign | Run <campaignname> | runlabel (delete campaign/run)
[dagah@localhost dagah]$
```

The Dagah command line runs campaigns made of XML representing the different attacks. In the professional version of Dagah a campaign can include multiple attacks. Some examples of the XML for different campaigns are shown below.

Basic example:

```
<campaign name="testbasicopenbts">
<attacks>
<basic deliverymethod="sms" directory="/testbasicqrcattack" label="testbasicqrcattack"
page="/index.html" webpagetext="test"/>
</attacks>
</campaign>
```

Harvester example:

```
<!-- Sample Campaign for a Phishing Harvester Attack
Campaign Arguments: name: A unique label for the campaign,
    alphanumeric without spaces -->
<campaign name="testharvester">
<!-- Attack Arguments: none -->
<attacks>
<!-- Harvester Arguments:
    label: A unique label for the attack, alphanumeric without spaces
    deliverymethod: [sms | nfc | qrc]
    smstext: If sms, text to appear in message, alphanumeric, symbols, spaces
    directory: website directory for hosting destination page (set to same as label)
    page: website page destination, must be .html or .php
    clonepage: The URL of web login page to clone
        Experiment with this outside of dagah to get a good page.
        Avoid including cgi-arguments in the URL (?something=something) -->

    <harvester label="testharvesterlabel" deliverymethod="sms" smstext="This is only a test"
directory="testharvesterlabel" page="index.html" clonepage="template"
template="www.gmail.com"></harvester>
</attacks>
</campaign>
```

Agent example:

```
<!-- Sample Campaign for a Agent Phishing Attack
Campaign Arguments: name: A unique label for the campaign,
    alphanumeric without spaces -->
<campaign name="testagent">
<!-- Attack Arguments: none -->
```

```

<attacks>
<!-- Agent Arguments:
  label: A unique label for the attack, alphanumeric without spaces
  deliverymethod: [sms | nfc | qrc]
  smstext: If sms, text to appear in message, alphanumeric, symbols, spaces
  directory: website directory for hosting destination page (set to same as label)
  backdoorapp: path and file name to apk to be backdoored with the agent
    or "none" for no backdoor. Only for Android targets -->
    <agent label="testagentlabel" directory="testagentlabel" deliverymethod="external"
smstext="Install this app:" backdoorapp="none"></agent>
</attacks>
</campaign>

```

Profile example:

```

<campaign name="prof1"><attacks><profile page="index.html" label="prof1" directory="prof1"
deliverymethod="external" smstext="Install this profile"
profile_file="/home/dagah/dagah/profiles/dagahprofile.mobileprovision" /></attacks></campaign>

```

Bluetooth (and multiple attacks in a campaign) example:

```

<campaign name="testbluetooth">
<attacks>
<basic deliverymethod="qrc" directory="/testbasicqrcattack" label="testbasicqrcattack"
page="/index.html" webpagetext="test" />
<bluetooth/>
</attacks>
</campaign>

```

Email

```

<campaign name="testbasicemail"><attacks><basic deliverymethod="email" emailsubject="hello georgia"
directory="/testbasicemail" label="testbasicemail" page="/index.html" webpagetext="test" emailtext="Hi
Everyone! Happy Australia Day! Cheers, Julian"/></attacks></campaign>

```

Twitter

```

<campaign name="testtwitter">
<attacks>
  <basic messagetext="This is only a test" label="testtwitterlabel" directory="testtwitterlabel"
deliverymethod="messagingapp" app="twitter" webpagetext="This is a test"/>
</attacks>
</campaign>

```


Setup a campaign with the Campaign command.

```
[dagah@localhost dagah]$ python dagah2.pyc Campaign testagent.xml
Lic:
Version: 1
LicID: XXXXXX
Type: ENTERPRISE
Edition: COMMERCIAL
Created: Sun, 29 Jan 2017 01:24:13 JST
Expiration Date: Mon, 29 Jan 2018 01:24:13 JST
Seats: 10
Targets: 1000
Attacks: 100
AgentAttacks: True
ClientSideAttacks: True
MsgAppAttacks: True
licOrg: ACME

Dagah License Unchanged
Lic: free = 0
Dagah 2 --scripted configurations and XML input output
Creating Stored Campaign
```

To run the command you need target numbers, Twitter user names, etc.

```
[dagah@localhost dagah]$ cat numbers.txt
15555215556
```

```
[dagah@localhost dagah]$ cat twitters.txt
@georgiaweidman
@shevirahsec
@bulbsecurity
```

Run the campaign as shown below.

```
[dagah@localhost dagah]$ python dagah2.pyc Run numbers.txt testagent testagentsaved
Lic:
Version: 1
LicID: t8YC1CFzIED30fq4Xaj7CRLR3kX7HuqnqhdLU718ME=
Type: ENTERPRISE
Edition: COMMERCIAL
Created: Sun, 29 Jan 2017 01:24:13 JST
Expiration Date: Mon, 29 Jan 2018 01:24:13 JST
Seats: 10
Targets: 1000
Attacks: 100
AgentAttacks: True
```

```
ClientSideAttacks: True
MsgAppAttacks: True
licOrg: ACME

Dagah License Unchanged
Lic: free = 0
Dagah 2 --scripted configurations and XML input output
Running Stored Campaign
Building Agent

BUILD SUCCESSFUL
```

When a user installs the agent, it checks in with the sever with basic information about itself. Results are stored in the savedruns folder.

```
[dagah@localhost 15555215556]$ pwd
/home/dagah/dagah/savedruns/testagentsaved/results/agents/15555215556
[dagah@localhost 15555215556]$ cat facts.txt
Phone Number: 15555215556
Type: Android
SDK Version: 19
IMEI: 0000000000000000
Wifi IP: 10.0.2.15
Baseband Version:
Model: sdk
Kernel Version: 3.4.67-01422-gd3ffcc7-dirty
```

You can run post exploitation commands on a live agent.

```
[dagah@localhost dagah]$ python dagah2.pyc Agent command testagentsaved 15555215556 APKS
Lic:
Version: 1
LicID: XXXX
Type: ENTERPRISE
Edition: COMMERCIAL
Created: Sun, 29 Jan 2017 01:24:13 JST
Expiration Date: Mon, 29 Jan 2018 01:24:13 JST
Seats: 10
Targets: 1000
Attacks: 100
AgentAttacks: True
ClientSideAttacks: True
MsgAppAttacks: True
licOrg: ACME
```

```
Dagah License Unchanged
Lic: free = 0
Dagah 2 --scripted configurations and XML input output
```

Results of the post exploitation are again saved in the savedruns folder for the campaign.

```
[dagah@localhost dagah]$ cd savedruns/testagentsaved/results/agents/15555215556/
[dagah@localhost 15555215556]$ ls
APKS.txt facts.txt
[dagah@localhost 15555215556]$ cat APKS.txt
com.android.soundrecorder
com.android.sdksetup
com.android.launcher
com.android.defcontainer
com.android.smoketest
com.android.quicksearchbox
com.android.contacts
com.android.inputmethod.latin
com.android.phone
com.android.calculator2
com.android.proxyhandler
com.android.htmlviewer
...
```

Twitter example:

```
[dagah@localhost dagah]$ python dagah2.pyc Run twitters.txt testtwitter testtwit
Lic:
Version: 1
LicID: t8YC1CFzIED30fq4Xaj7CRLR3kX7HuqnqhdLU718ME=
Type: ENTERPRISE
Edition: COMMERCIAL
Created: Sun, 29 Jan 2017 01:24:13 JST
Expiration Date: Mon, 29 Jan 2018 01:24:13 JST
Seats: 10
Targets: 1000
Attacks: 100
AgentAttacks: True
ClientSideAttacks: True
MsgAppAttacks: True
licOrg: ACME

Dagah License Unchanged
Lic: free = 0
Dagah 2 --scripted configurations and XML input output
Running Stored Campaign
child.tag attacks
```

```
2 child.tag basic
Lic.n_Attacks() 100
[dagah@localhost dagah]$
```

Since I connected Dagah to my Twitter account (discussed previously) it sends the attack to the twitter accounts specified in twitters.txt.

Twitter, Inc. [US] | https://twitter.com/georgiaweidman/with_replies

Home Moments Notifications Messages

Penetration Testing, security expert, researcher, and trainer Georgia Weidman introduces you to the core skills and techniques that every pentester needs. Using a virtual machine-based lab that includes Linux and vulnerable operating systems, you'll run through a series of practical exercises with tools like Wireshark, Nmap, and Metasploit Suite. As you follow along with the course, you'll learn how to bypass antivirus software, turn access to one machine into total control of the enterprise in the post-exploitation phase, and even explore writing your own exploits. Then it's on to mobile hacking—Weidman's latest area of research—with her tool, the Mobile Pentest Framework. A collection of hands-on lessons that cover a wide range of topics and strategies, *Penetration Testing: A Hands-On Introduction* that every aspiring

on Testing

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Georgia Weidman ✓
@georgiaweidman
Author of *Penetration Testing: A Hands-On Introduction to Hacking*
nostarch.com/pentesting (use code GEORGIA) Founder of @bulbsecurity and @shevirahsec
DC, airports
shevirah.com
Joined April 2009
Born on October 8, 1987

Tweets Tweets & replies Media

Georgia Weidman ✓ @georgiaweidman · 1m
@bulbsecurity This is only a test bit.ly/2Az2Vaj

Georgia Weidman ✓ @georgiaweidman · 1m
@shevirahsec This is only a test bit.ly/2Az2Tzd

Georgia Weidman ✓ @georgiaweidman · 1m
@georgiaweidman This is only a test bit.ly/2ypsl8O

If a user clicks they are recorded in the results.

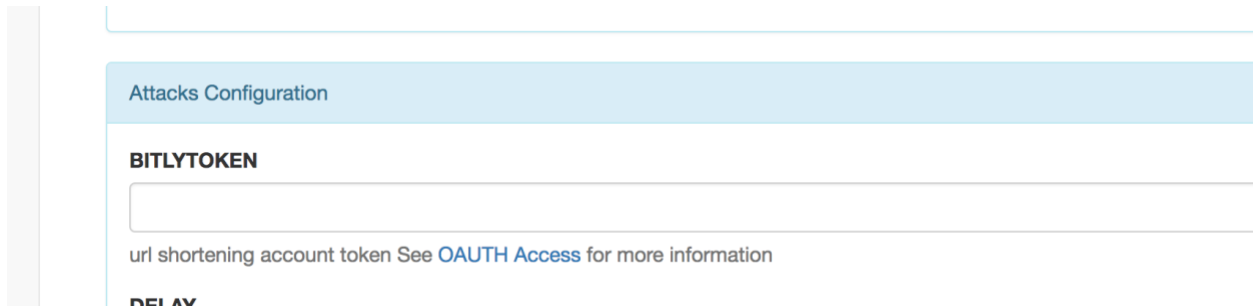
```
[dagah@localhost dagah]$ cd savedruns/testttwit/
[dagah@localhost testttwit]$ ls
campaignconfig.xml numbers.txt results
[dagah@localhost testttwit]$ cd results/
[dagah@localhost results]$ ls
testttwitterlabelbasic1-results
[dagah@localhost results]$ cat testttwitterlabelbasic1-results
[10/Nov/2017:15:03:49] @georgiaweidman Mozilla/5.0 (Macintosh; Intel Mac OS X 10_12_6) AppleWebKit/537.36
(KHTML, like Gecko) Chrome/61.0.3163.100 Safari/537.36
[dagah@localhost results]$
```

(direct message support coming soon).

Using the GUI Example

Here's an example of using the GUI to run a harvester attack.

Let's start by setting a configuration option. Dagah can use Bit.ly to obfuscate URLs.



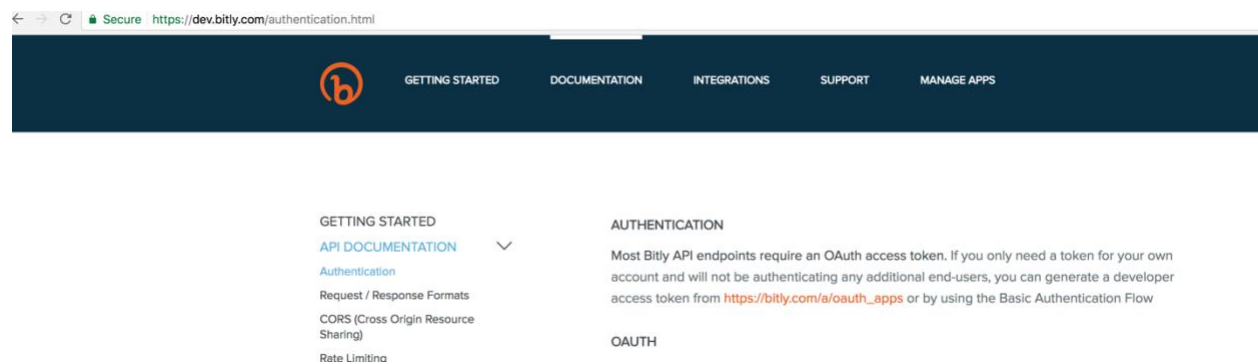
Attacks Configuration

BITLYTOKEN

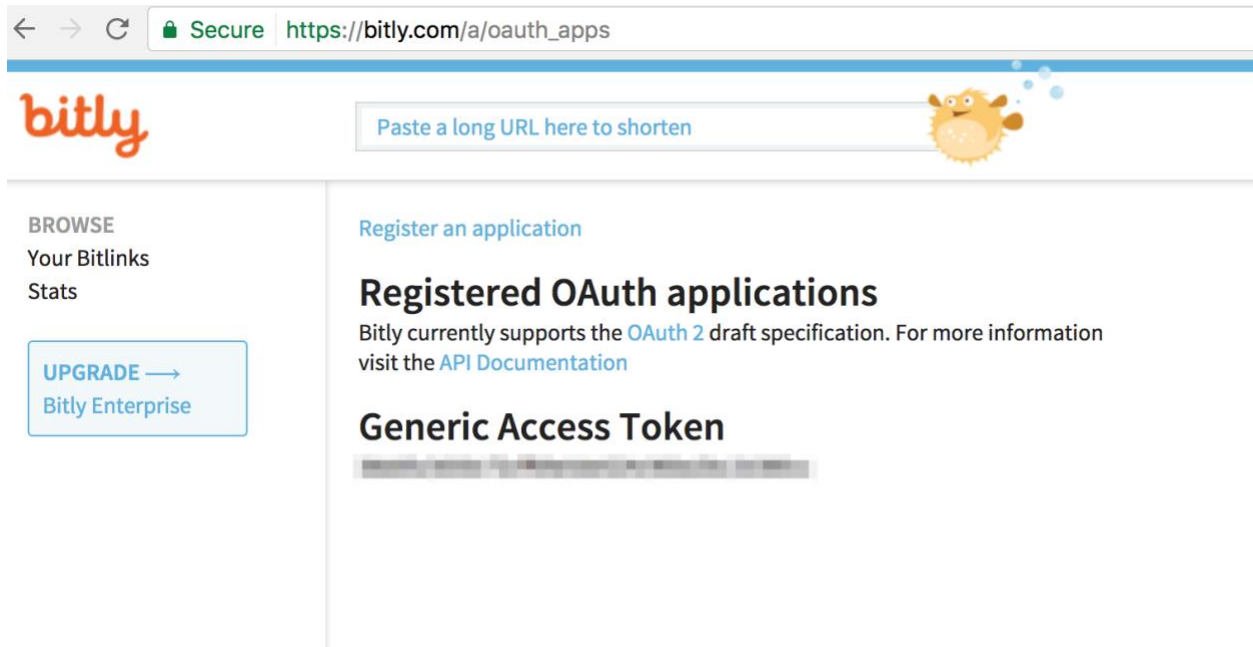
url shortening account token See [OAUTH Access](#) for more information

DELAY

In the Site Configurator under BITLYTOKEN there's a link to information on how to get the token.



In your Bit.ly account generate an OAuth token as directed by the help.



Save the token in the Site Configurator and relogin.



To create an attack go to Design New Attack on the left hand menu. Set the name of the attack, the type of attack (Harvester for this example), delivery method and other settings as necessary (in this case SMS template for the SMS delivery and harvester template for the harvester page). You can check the box to automatically create a campaign with this one attack to save a step, but let's not so we can look at creating a campaign.

← → ↻ Not Secure 192.168.0.222/dagah_dAttacks.html

Dagah License: PROFESSIONAL

Dashboard

Design New Attack

View Saved Attacks

Target Lists

View SMS Templates

Design Harvester Templates

Design New Campaign

View Saved Campaigns

Execute Campaigns

View Executed Campaigns

Job Queue Monitor

Reports

shevirah

Design New Attack

Create New Attack

ManualAttack

Unique Attack Label (alphanumeric and dashes)

Type of Attack: ☐ Basic ☒ Harvester ☐ Agent (Professional License Only) ☐ Profile ☐ Client-Side (Coming Soon) ☐ Bluetooth

Delivery Method: ☒ SMS ☐ QR Code ☐ NFC ☐ Messaging Application (Twitter, WhatsApp) (Professional License Only, Connect at Command Line) ☐ External ☐ Email

Hello Georgia

Text to send as message

Hello Georgia

You can also choose a Message template from list

Chose harvester template:

www.gmail.com

or enter URL:

URL to login page to clone (e.g. https://gmail.google.com)

☐ Auto Create Campaign from this Attack

Save Cancel

After saving the attack(s) to want to run, go to Design New Campaign on the left. Name the campaign and select the desired attacks(s) from the list of saved attacked. Click Save Campaign on the right.

← → ↻ Not Secure 192.168.0.189/dagah_dCampaigns.html

Dagah License: ENTERPRISE

Dashboard

Design New Attack

View Saved Attacks

Target Lists

View SMS Templates

Design Harvester Templates

Design New Campaign

View Saved Campaigns

Execute Campaigns

View Executed Campaigns

Job Queue Monitor

Reports

shevirah

Design a Campaign

Name

mytest

Unique Campaign Label

Select Attack(s)

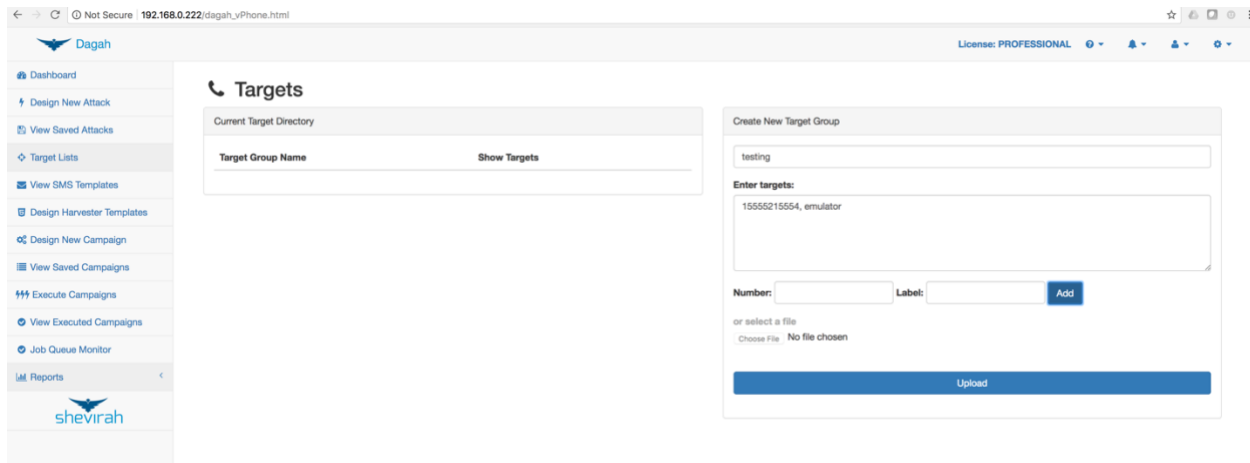
| ID | Name | Show Attributes |
|----|----------|---------------------------------|
| 1 | testtest | View Attributes |

Save Campaign

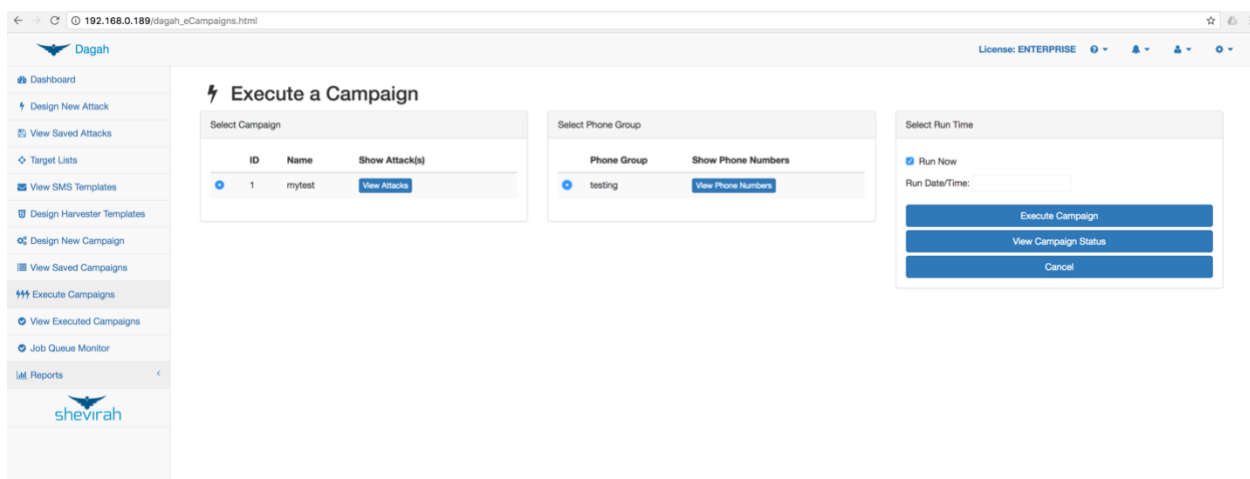
Save Campaign

Cancel

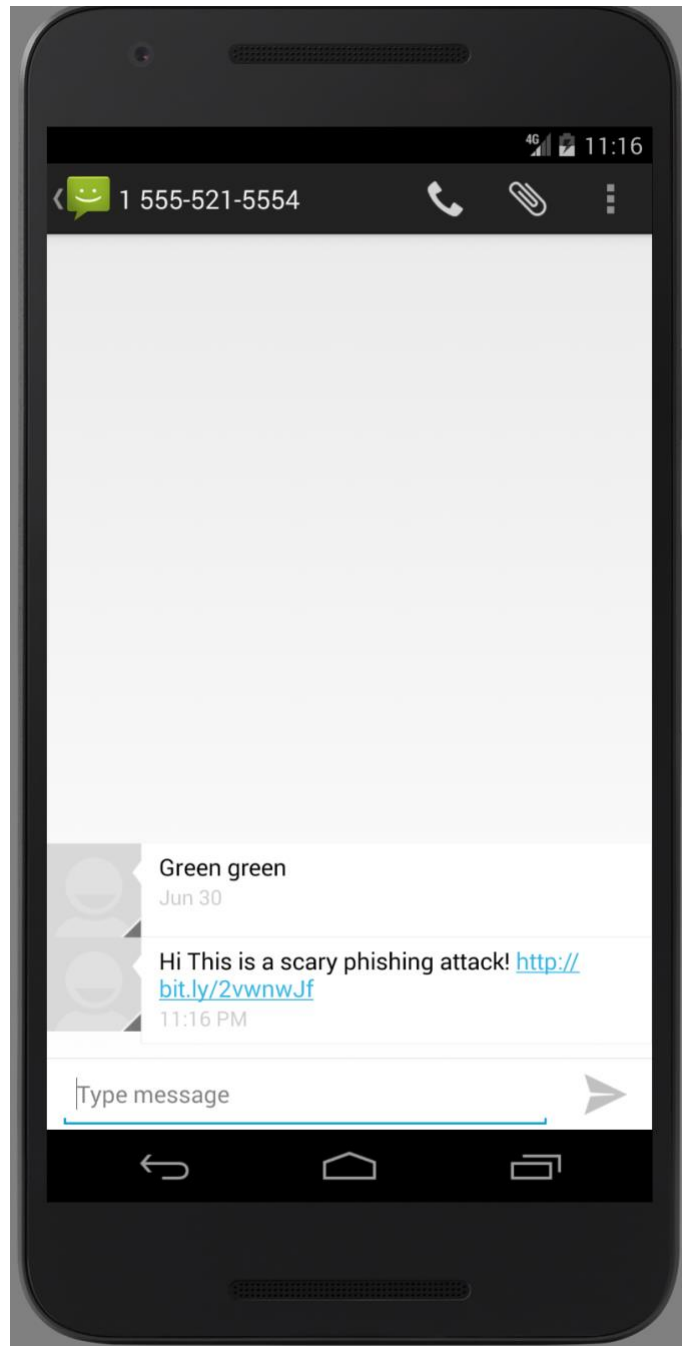
We need targets to attack. Click Target Lists on the left hand menu. You can upload a list or enter the list through the dialog. Targets can be phone numbers, email addresses, or Twitter handles. In this example we put in the number and a label of our target emulator. Save the target list with the upload button once you have entered all your targets.



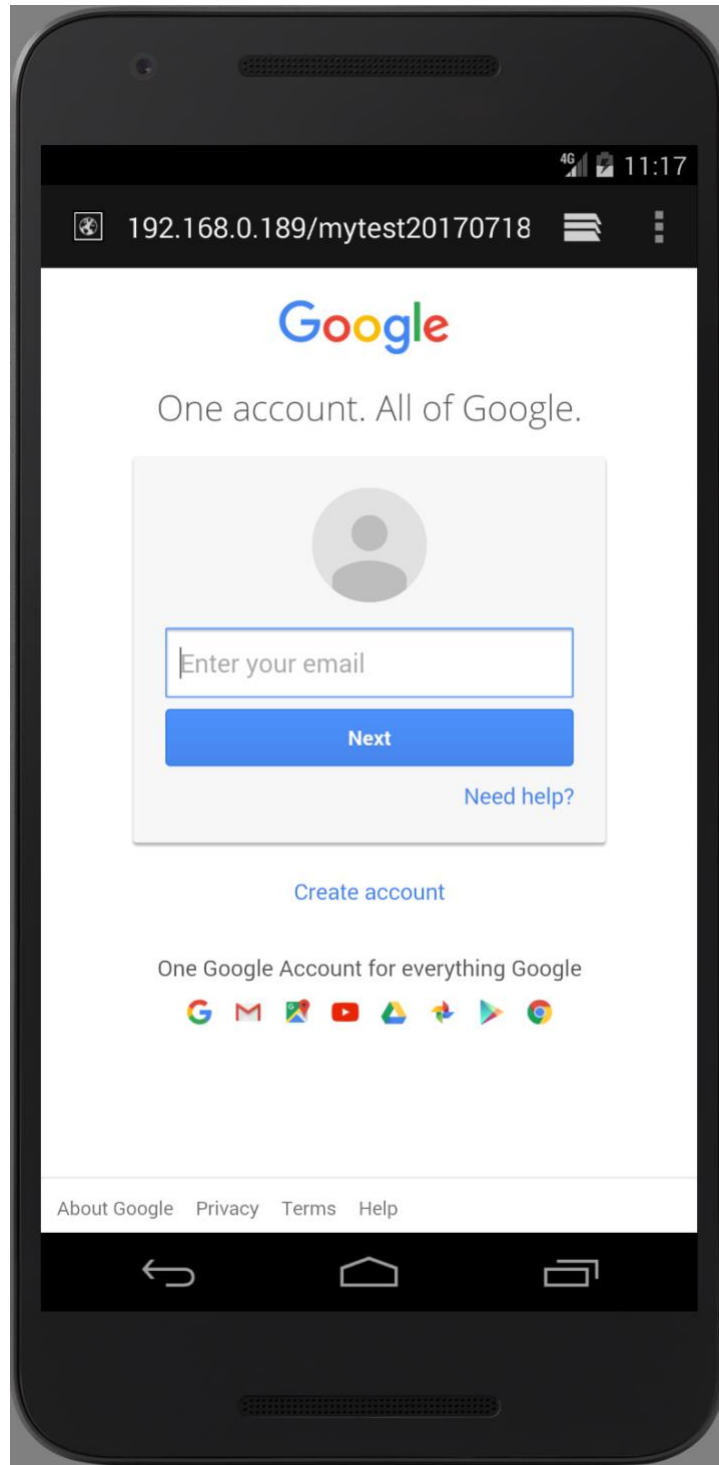
Now that we have a campaign and targets to run it against go to Execute Campaigns on the left. Choose a campaign to run from the saved campaigns on the left, a target list to turn it against, and click Execute Campaign.



The targets will receive a text message with the SMS template text with a bit.ly obfuscated link.



If the target clicks on the link it redirects to the harvester page. It looks and feels like the real gmail.com (and redirects to it after the user attempts to login) but captures the users requests.



If the user clicks on the link on a basic or harvester attack, their user agent string will be recorded on the results page. If they submit data to a harvester page that will be recorded as well. To see campaign results click View Executed Campaigns on the left side menu.

- Dashboard
- Design New Attack
- View Saved Attacks
- Target Lists
- View SMS Templates
- Design Harvester Templates
- Design New Campaign
- View Saved Campaigns
- Execute Campaigns
- View Executed Campaigns
- Job Queue Monitor
- Reports

License: ENTERPRISE

Executed Campaigns

Executed Campaign List

| ID | Campaign Name | Show Targets | Attack(s) | Run Time | Run Output | Show Results | Run Status |
|----|---------------|----------------------------|------------------------------|---------------------|---------------------------------|---|---|
| 53 | three | View green | View Attacks | 2017-11-08 11:52:01 | Output from Run | Agent Interface View Results | Job Status: 17 finish 15878 three three20171109035201 |
| 52 | hhagent | View green | View Attacks | 2017-11-08 08:40:59 | Output from Run | Agent Interface View Results | Job Status: 16 finish 6091 hhagent hhagent20171109004059 |
| 51 | three | View green | View Attacks | 2017-11-08 08:29:37 | Output from Run | Agent Interface View Results | Job Status: 15 finish 4373 three three20171109002937 |
| 50 | three | View green | View Attacks | 2017-11-08 07:41:49 | Output from Run | Agent Interface View Results | Job Status: 14 finish 821 three three20171108234149 |
| 49 | three | View green | View Attacks | 2017-11-08 07:28:48 | Output from Run | Agent Interface View Results | Job Status: 13 finish 31880 three three20171108232848 |
| 48 | blueblue | View green | View Attacks | 2017-11-08 06:31:15 | Output from Run | View Results | Job Status: 12 finish 29783 blueblue blueblue20171108223115 |

In the show results column click the View Results Button to see the results of your campaign.

- Dashboard
- Design New Attack
- View Saved Attacks
- Target Lists
- View SMS Templates
- Design Harvester Templates
- Design New Campaign
- View Saved Campaigns
- Execute Campaigns
- View Executed Campaigns
- Job Queue Monitor
- Reports

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View "finalfinal20171108214454" Campaign Results

Results Information

- Campaign Run ID: 45
- Campaign ID: 19
- Campaign Saved: 2017-11-09 02:44:54
- Run Time: 2017-11-08 05:44:54

Aimed Targets

| ID | Number | Name | Phone Group |
|----|-------------|---------|-------------|
| 5 | 16017502059 | android | green |
| 6 | 16018639564 | iphone | green |

Attack Type: harvester Attack Label: finalfinal

| Target | Clicked Timestamp | User Agent | Submitted Data |
|-------------|------------------------|--|---|
| 16017502059 | [08/Nov/2017:21:46:01] | Mozilla/5.0 (Linux; Android 7.0; SAMSUNG SM-G930A Build/NRD90M) AppleWebKit/537.36 (KHTML, like Gecko) SamsungBrowser/6.2 Chrome/56.0.2924.87 Mobile Safari/537.36 | { [Page] => PasswordSeparationSignIn [GALX] => r9sjCH0jhTc [gxI] => AFcagUVcVh [ProfileInformation] => APMTqurRfeMoftrKTZLXONio2D_707jckzeWwHBBik_FGhZW66AygC4vxxStMsM [utR] => [5] [bresponse] => js_disabled [Email] => blah [Password] => goren [signIn] |

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With a professional license, you can make campaigns made up of multiple attacks by checking multiple boxes for attacks on the Create Campaigns page. Here is an example of a campaign with three attacks.

Dashboard
Design New Attack
View Saved Attacks
Target Lists
View SMS Templates
Design Harvester Templates
Design New Campaign
View Saved Campaigns
Execute Campaigns
View Executed Campaigns
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Reports

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Edit Campaign

Name

three

Unique Campaign Label

Select Attack(s)

| | ID | Name | Show Attributes |
|-------------------------------------|----|----------------|---------------------------------|
| <input checked="" type="checkbox"/> | 21 | agentagent | View Attributes |
| <input type="checkbox"/> | 20 | blueblue | View Attributes |
| <input checked="" type="checkbox"/> | 19 | finalfinal | View Attributes |
| <input type="checkbox"/> | 18 | finalplease | View Attributes |
| <input type="checkbox"/> | 17 | againharvest | View Attributes |
| <input type="checkbox"/> | 16 | harvesteragain | View Attributes |
| <input type="checkbox"/> | 15 | harvesterest2 | View Attributes |
| <input type="checkbox"/> | 14 | harv | View Attributes |
| <input checked="" type="checkbox"/> | 13 | basictest | View Attributes |

Save Campaign

Save Campaign
Cancel

If a campaign includes an agent attack in addition to the View Results button on the View Executed Campaigns page you will see and Agent Interface button. If you click that it will take you directly to the Agent post exploitation interface discussed in the agents section earlier in this document.

Dashboard
Design New Attack
View Saved Attacks
Target Lists
View SMS Templates
Design Harvester Templates

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Executed Campaigns

Executed Campaign List

| Campaign ID | Name | Show Targets | Attack(s) | Run Time | Run Output | Show Results | Run Status |
|-------------|-------|----------------------------|------------------------------|---------------------|---------------------------------|---|---|
| 53 | three | View green | View Attacks | 2017-11-08 11:52:01 | Output from Run | Agent Interface View Results | Job Status: 17 finish 15078 three three20171109035201 |

You can view the status of your campaign runs by clicking the Job Queue Monitor on the left side menu.

Dashboard
Design New Attack
View Saved Attacks
Target Lists
View SMS Templates
Design Harvester Templates
Design New Campaign
View Saved Campaigns
Execute Campaigns
View Executed Campaigns
Job Queue Monitor

Campaign Status Monitor

List All Jobs
List Running
List Queued
List Waiting
List Ending
List Finished

Checking Spooler Status

```

('cmd: ', 'list')
State: run
Queue Info:
in 0
wait 0
run 1
18 run 29655 three three20171110145317
ending 0
finish 17
17 finish 15078 three three20171109035201

```