

Note that since version 2.10 you can serve the script to other hosts with the -s flag!

linux-smart-enumeration

Linux enumeration tools for pentesting and CTFs

This project was inspired by https://github.com/rebootuser/LinEnum and uses many of its tests.

Unlike LinEnum, 1se tries to gradualy expose the information depending on its importance from a privesc point of view.

What is it?

This shell script will show relevant information about the security of the local Linux system, helping to escalate privileges.

From version 2.0 it is *mostly* **POSIX** compliant and tested with shellcheck and posh.

It can also monitor processes to discover recurrent program **executions**. It monitors while it is executing all the other tests so you save some time. By default it monitors during 1 minute but you can choose the watch time with the -p parameter.

It has 3 levels of verbosity so you can control how much information you see.

In the default level you should see the highly important security flaws in the system. The level 1 (./lse.sh -l1) shows interesting information that should help you to privesc. The level 2 (./lse.sh -12) will just dump all the information it gathers about the system.

By default it will ask you some questions: mainly the current user password (if you know it;) so it can do some additional tests.

Packages

No packages published

Contributors 7













Languages

Shell 100.0%

How to use it?

The idea is to get the information gradually.

First you should execute it just like ./lse.sh . If you see some green yes! , you probably have already some good stuff to work with.

If not, you should try the level 1 verbosity with ./lse.sh - 11 and you will see some more information that can be interesting.

If that does not help, level 2 will just dump everything you can gather about the service using ./lse.sh -12 . In this case you might find useful to use ./lse.sh -12 | less -r .

You can also select what tests to execute by passing the -s parameter. With it you can select specific tests or sections to be executed. For example ./lse.sh -12 -s usr010,net,pro will execute the test usr010 and all the tests in the sections net and pro .

```
ſĠ
Use: ./lse.sh [options]
 OPTIONS
  - C
               Disable color
  -i
               Non interactive mode
               This help
  -1 LEVEL
             Output verbosity level
                 0: Show highly important resul-
                 1: Show interesting results.
                 2: Show all gathered information
  -s SELECTION Comma separated list of sections
               sections:
                 usr: User related tests.
                 sud: Sudo related tests.
                 fst: File system related tests
                 sys: System related tests.
                 sec: Security measures related
                 ret: Recurren tasks (cron, time
                 net: Network related tests.
                 srv: Services related tests.
```

```
pro: Processes related tests.
sof: Software related tests.
ctn: Container (docker, lxc) ro
cve: CVE related tests.

Specific tests can be used with

-e PATHS Comma separated list of paths to
to do faster scans at the cost or

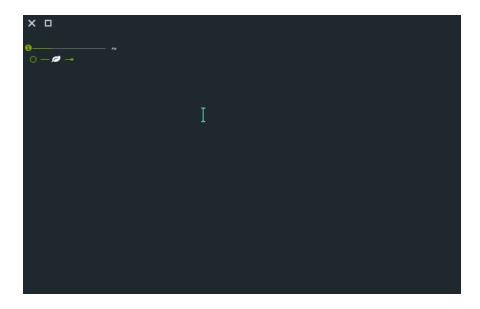
-p SECONDS Time that the process monitor will
processes. A value of 0 will disa

-S Serve the lse.sh script in this I
from a remote host.
```

Is it pretty?

Usage demo

Also available in webm video



Level 0 (default) output sample

```
Linux: 3.16.0-4-amd64
      Distribution: Debian GNU/Linux 8.6 (jessie)
      Architecture: x86 64
     sud010 Can we list sudo commands without a password?.....nope

      [*] fst000 Writable files outside user's home.
      yes!

      [*] fst010 Binaries with setuid bit.
      yes!

      [!] fst020 Uncommon setuid binaries.
      nope

      [!] fst030 Can we write to any setuid binary?
      nope

      [*] fst040 Binaries with setgid bit.
      skip

      [!] fst050 Uncommon setgid binaries.
      skip

      [!] fst060 Can we write to any setgid binary?
      skip

      [*] fst070 Can we read /root?
      nope

      [*] fst080 Can we read subdirectories under /home?
      nope

      [*] fst090 SSH files in home directories.
      nope

      [*] fst100 Useful binaries.
      yes!

            [t] fst500 Files owned by user 'treitos' skip
[i] fst510 SSH files anywhere skip
[i] fst520 Check hosts.equiv file and its contents skip
[i] fst530 List NFS server shares skip
[i] fst540 Dump fstab file skip
[i] sys000 Who is logged in sers (system) ---
[i] sys010 Last logged in users skip
[i] sys010 Last logged in users nope
[!] sys030 Can we read /etc/shadow file? nope
[!] sys030 Can we read /etc/shadow file? nope
[!] sys030 Can we read /etc/shadow file? nope
[!] sys030 Can we read /etc/master.passwd file? nope
[!] sys030 Can we read /etc/master.passwd file? nope
[*] sys030 Can we read /etc/master.passwd file? nope
[*] sys050 Can root user log in via SSH? yes!
[i] sys060 List available shells skip
[i] sys070 System umask in /etc/login.defs skip
[i] sys080 System password policies in /etc/login.defs skip
[i] sec000 Is SELinux present? security | ---
[*] sec001 List files with capabilities yes!
[!] sec020 Can we write to a binary with caps? nope
[!] sec030 Do we have all caps in any binary? yes!
      [*] sec040 Users with associated capabilities.....
      ret010 Cron tasks writable by user.....
```

Level 1 verbosity output sample

```
Distribution: Debian GNU/Linux 8.6 (jessie)
Architecture: x86_64
[i] usr000 Current user groups......yes
[*] usr010 Is current user in an administrative group?.....nope
[i] usr000 Current user groups......
[*] usr020 Are there other users in an administrative groups?..... yes
[*] usr030 Other users with shell.....yes!
treitos:x:1000:1000:treitos,,,:/home/treitos:/bin/bash
web-admin:x:1001:33::/var/www/sites:/usr/bin/rssh
[i] usr040 Environment information.....skip
[*] fst000 Writable files outside user's home..... yes!
/tmp/.XIM-unix
/tmp/.Test-unix
/tmp/.ICE-unix
/tmp/.X11-unix
/tmp/.font-unix
[*] fst010 Binaries with setuid bit..... yes
/usr/lib/openssh/ssh-keysign
/usr/bin/gpasswd
/usr/bin/newgrp
[*] fst080 Can we read subdirectories under /home?.....nope
   fst090 SSH files in home directories.....
[*] fst100 Useful binaries......
```

Level 2 verbosity output sample

```
Linux: 3.16.0-4-amd64
Distribution: Debian GNU/Linux 8.6 (jessie)
Architecture: x86_64
[i] usr000 Current user groups.....yes
[*] usr030 Other users with shell..... yes
root:x:0:0:root:/root:/bin/bash
treitos:x:1000:1000:treitos,,,:/home/treitos:/bin/bash
web-admin:x:1001:33::/var/www/sites:/usr/bin/rssh
[i] usr040 Environment information.....yes
PATH=/usr/bin:/bin:/sbin:/usr/sbin
PWD=/tmp
LANG=gl_ES.UTF-8
SHLVL=3
LOGNAME=treitos
[i] usr050 Groups for other users......ye
root:x:0:
kmem:x:15:
cdrom:x:24:treitos
www-data:x:33:
```

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