Radare2!

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The Basics

Doc Link: https://www.kali.org/tools/radare2/

Git Link: https://github.com/radareorg/radare2

What this tool does:

Radare 2 is an open-source framework for reverse engineering and analyzing files. It provides a tools for disassembly, debugging, and editing executable files. It supports various languages and formats. Its command line interface and scripting capabilities make it powerful for both beginners and advanced users in reverse

engineering and software analysis.



How To Install

Clone from github:

```
(kali@kali)-[~/radare2]
s git clone https://github.com/radareorg/radare2
```

```
(kali)-[~/radare2/radare2]

s autogen.sh configure configure.hook CONTRIBUTING.md DEVELOPERS.md env.sh libr man mk preconfigure.bat SECURITY.md test

binr configure.acr configure-plugins COPYING dist global.mk make.bat meson.build pkgcfg README.md shlr USAGE.md

COMMUNITY.md configure.bat config-user.mk.acr COPYING.LESSER doc INSTALL.md Makefile meson_options.txt preconfigure scripts sys vsfix.bat
```

Usage:

```
(kali@ kali)-[~/pentesting/pico/c0rrupt]
s ls
mystery mystery.png search

(kali@ kali)-[~/pentesting/pico/c0rrupt]
s r2 mystery
```

Use command: man r2 To find man page.

```
RADARE2(1)

NAME

radare2 - Advanced command-line hexadecimal editor, disassembler and debugger

SYNOPSIS

radare2 [-a arch] [-b bits] [-B baddr] [-c cmd] [-e k=v] [-i file] [-I prefile] [-k kernel] [-m addr] [-p project] [-P patch
```

To View Files

Use r2 -w *filename* to enter a writable mode in Radare2

Use V to navigate, analyze, and view files.

```
(kali@ kali)-[~/pentesting/pico/c0rrupt]
$ r2 -w mystery
[0×00000000]> V
```

```
.eN4.....C"DR
           8965 4e34 0d0a b0aa 0000 000d 4322 4452
           0000 066a 0000 0447 0802 0000 007c 8bab
           7800 0000 0173 5247 4200 aece 1ce9 0000
           0004 6741 4d41 0000 b18f 0bfc 6105 0000
           0009 7048 5973 aa00 1625 0000 1625 0149
           5224 f0aa aaff a5ab 4445 5478 5eec bd3f R$ ... ... DETx^ ...?
           8e64 cd71 bd2d 8b20 2080 9041 8302 08d0 .d.g.-. ..A....
           f9ed 40a0 f36e 407b 9023 8f1e d720 8b3e
                                                     ..a..na{.#....>
           b7c1 0d70 0374 b503 ae41 6bf8 bea8 fbdc
           3e7d 2a22 336f de5b 55dd 3d3d f920 9188
           3871 2232 eb4f 57cf 14e6 25ff e5ff 5b2c 8g"2.0W ... % ... [,
           168b c562 b158 2c16 8bc5 62b1 582c 161d
           d6d7 678b c562 b158 2c16 8bc5 62b1 582c
           168b 4597 f5f5 d962 b158 2c16 8bc5 62b1
           582c 168b c562 d165 7d7d b658 2c16 8bc5
           62b1 582c 168b c562 b158 7459 5f9f 2d16 b.X, ... b.XtY_.-.
0×00000100 8bc5 62b1 582c 168b c562 b158 2c16 5dd6 ..b.X, ... b.X, ...
```



To Edit Files

Use c and navigate to the hex you want to edit: can be seen by the highlighted characters