

r2wars

battle bots in shared memory

hanemile @ \$EVENT

[https://emile.space/events/2024/10-
mrmcd-darmstadt/r2wars-
mrmcd-2024.pdf](https://emile.space/events/2024/10-mrmcd-darmstadt/r2wars-mrmcd-2024.pdf)

[https://github.com/hanemile/
r2wars](https://github.com/hanemile/r2wars)

radare2 ?*~...

ESIL ?

r2wars ?

TL;DR

```
; r2 malloc://1024 # allocate 1KB of memory
[0x00000000]> e asm.arch = x86 # define the arch to use
[0x00000000]> e asm.bits = 32 # define the bits to use
[0x00000000]> aei # init vm
[0x00000000]> aeim # init staack
[0x00000000]> waf bot.asm # write bot to memory
[0x00000000]> aer PC = 0x100 # set program counter
[0x00000000]> aer SP = SP + 0x100 # set stack pointer
[0x00000000]> e cmd.esil.todo=f theend=1 # define end condition
[0x00000000]> e cmd.esil.trap=f theend=1 # define end condition
[0x00000000]> e cmd.esil.intr=f theend=1 # define end condition
[0x00000000]> e cmd.esil.ioer=f theend=1 # define end condition
[0x00000000]> f theend=0 # set the end flag to 0
[0x00000000]> aes # step
[0x00000000]> ?v 1+theend # check if the end cond. is met
.. # in a loop
[0x00000000]> aes # step
[0x00000000]> ?v 1+theend # check if the end cond. is met
```

```
; git clone https://github.com/HanEmile/r2wars.git  
; cd r2wars  
; CGO_ENABLED=0 go run ./... -t 1s -v \  
./bots/warrio0.asm ./bots/warrio1.asm
```

Now: Play around and Hack the planet!

<https://emile.space/blog/2020/r2wars>



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