Cheatsheet

GDB

```
help <command>-manual

start - run program and break on main

run - run program

info functions - list all functions

list <function_name> - show source of function

disass <function_name> - show disassembly of a function

disass /m <function_name> - disass function interleaving it with relevant C code

break *<address or name> - set a breakpoint

info breakpoints - list breakpoints
```

manage breakpoints:

```
delete <bp_number>
disable <bp_number>
enable <bp number>
```

explore registers:

```
info registers
$(gdb)> i r
Info registers <reg_name>
```

Examine/Print:

Where:

- N number of units we want to examine
- U units size, possible are:
 - b byte
 - h half word (2 bytes)
 - \circ w word
 - o g giant word (8 bytes)
- F output data format:
 - \circ x hex
 - o d decimal
 - o u unsigned decimal
 - o i instruction
 - o s string
 - o c char

Examples:

x/32b \$rsp - Get 32 bytes at address pointed by RSP:

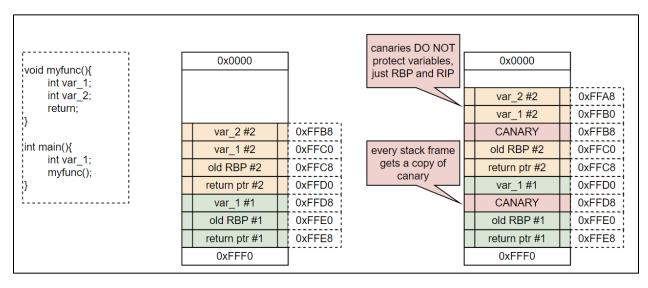
 $x/4gx \$ \$rsi - Get four 8-byte long values as hex at address from RSI

p/x \$rsi - Print the value of RSI as hex

p/d 0x42424242 - Convert hex to decimal

Stack

Stack frame layout with and without canary



Basic overflow

