



GDB COMMANDS

**file <path>**

load binary file to debug

run [<args>...]

run program [with args]

starti [<args>...]

start program and stop at its very first instruction

set args <args>...

set program arguments

break <where>

set a breakpoint

info breakpoints|threads|regs

list breakpoints/threads/register values

delete <breakpoint>

delete a breakpoint

next

go to next (source) line

step

go to next line stepping into functions

ni

go to next instruction

si

go to next instruction stepping into functions

finish

run until current function returns

continue

continue program execution

print <what>

evaluate and print an expression

x/format <address>

examine memory with given format (see help x)

apropos <topic>

find information about topic

backtrace

print backtrace (call stack)

up, down

move up/down the call stack

PWNDDBG COMMANDS:

pwndbg [<topic>]

print info about pwndbg commands

config

show pwndbg configuration

theme

show pwndbg theme configuration

tip [--all]

print tips that are shown during startup

CONTEXT DISPLAY

context [<section>]

display context or a given context section (regs, disasm, args, code, stack, backtrace, expressions, ghidra, threads)

set context-sections [<sect1>] [<sect2>...]

set context to display only given sections

ctx-watch eval|execute <expression>

adds a given expression to be shown on context display

START COMMANDS

attachp <pid|name>

attach to given pid or process by part of its name

start [<args>...]

run and stop program at the first found symbol from: main, _main, start, _start, init, _init or entry

entry [<args>...]

run and stop program at its entrypoint address

sstart [<args>...]

run and stop program at the __libc_start_main function

MEMORY COMMANDS

vmmap [<address|name>]

display memory mappings information [filtered by address or name]

search <what>

search memory for a given value

telescope <where> [<count>]

examine memory dereferencing valid pointers

hexdump <where> [<count>]

print hexdump of given address

p2p <mapping_names> [<mapping_names>...]

pointer to pointer chain search (e.g. p2p stack libc will look for pointers to libc on the stack)

xinfo <where>

show offsets of the specified address from various useful locations

STACK COMMANDS

retaddr

print return addresses on the stack

canary

print the global stack canary/cookie value and finds canaries on the stack

NAVIGATION

xuntil <where>

continue until an address or function

nextcall

continue to next call instruction

nextjmp

continue to next jump instruction

nextret

continue to next return-like instruction

stepret

step until a ret instruction is found

stepuntilasm <asm code>

step until a given assembly instruction (or mnemonic) is found

LINUX/LIBC/ELF COMMANDS

checksec

print binary mitigations status

piebase

print the relocated binary base address

got

print symbols in the .got.plt section

gotplt

print symbols in the .got.plt section

plt

print symbols in the .plt section

tls

print thread local storage address

MISC COMMANDS

distance <where1> <where2>

compute difference between two addresses

patch <where> '<instructions>...'

patch given address with given code/bytes

patch_list

list all applied patches

patch_revert <patch>

revert a patch

symbol [...]

add, show, load, edit, or delete custom structures in plain C (so they can be used e.g. with print command)

plist [...]

dump elements of a linked list (see help plist)

procinfo

display process information

errno [<errno value>]

print libc's errno error code string

GLIBC HEAP HACKING

heap_config

show glibc allocator hacking configuration

heap

iteratively print chunks on heap (glibc only)

vis_heap_chunks

visualize chunks on a heap

bins

print contents of all arena bins and thread's tcache

find_fake_fast <address>

find candidate fake fast or tcache chunks overlapping the specified address

try_free <address>

check what would happen if free was called with given address