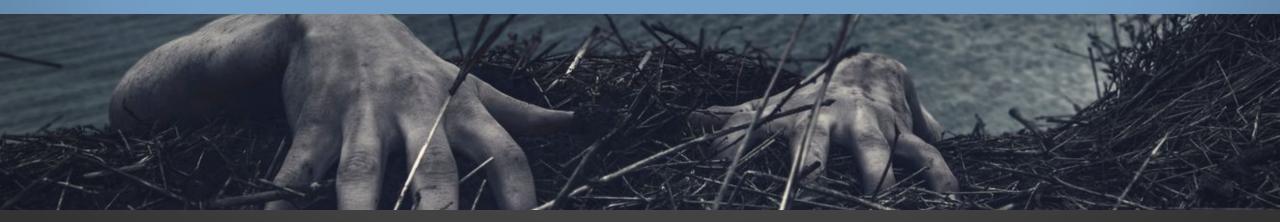
FIXING ZOMBIELOAD VULNERABILITIES

On MacOS



ALL APPLE COMPUTERS SINCE 2011



- ATTACKS CAN LEAK CONFIDENTIAL DATA
- REAL-WORLD SETTINGS (CLOUD, BROWSERS, ETC.)
- CAN LEAK IN-FLIGHT DATA
- BUGS ARE ACTUALLY SYSTEMIC
- HARDWARE
 VULNERABILITIES
 BECOMING THE NEW
 HUNTING GROUND FOR
 ATTACKERS

UNSUPPORTED MODELS

- MACBOOK (13-INCH, LATE 2009)
- MACBOOK (13-INCH, MID 2010)
- MACBOOK AIR (13-INCH, LATE 2010)
- MACBOOK AIR (11-INCH, LATE 2010)
- MACBOOK PRO (17-INCH, MID 2010)
- MACBOOK PRO (15-INCH, MID 2010)
- MACBOOK PRO (13-INCH, MID 2010)

- IMAC (21.5-INCH, LATE 2009)
- IMAC (27-INCH, LATE 2009)
- IMAC (21.5-INCH, MID 2010)
- IMAC (27-INCH, MID 2010)
- MAC MINI (MID 2010)
- MAC PRO (LATE 2010)

PROTECTING YOUR MAC

INSTALL SECURITY UPDATES

GO TO UTILITIES AND CLICK ON TERMINAL

https://support.apple.com/kb/HT210107

2 RESTART YOUR MAC IN MACOS RECOVERY

Reboot your Mac and hold <CMD><R> while rebooting

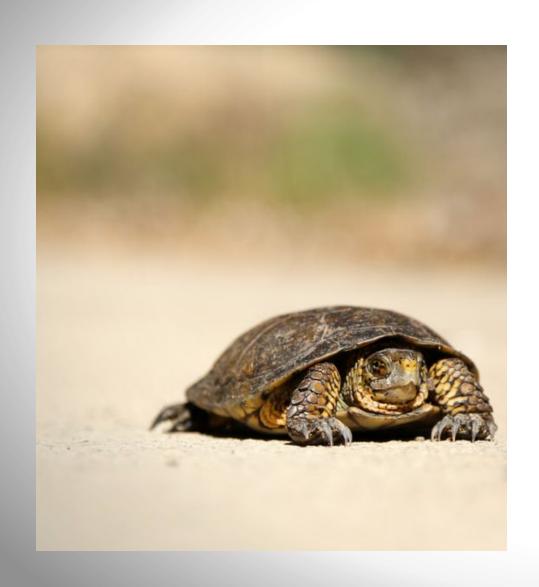
TYPE THE FOLLOWING COMMANDS USING LOWER-CASE:

- NVRAM BOOT-ARGS="CWAE=2"
- 2 NVRAM SMTDISABLE=%01

YOU'RE DONE WITH THE TERMINAL

SELECT "RESTART"

YOU MAY LOSE 40% PERFORMANCE



- LAST STEP DISABLED HYPERTHREADING -- THE BIGGEST SECURITY PROBLEM
- IT WILL SLOW YOUR COMPUTER BY 20% TO 40%
- IF YOUR COMPUTER IS TOO SLOW YOU CAN REMOVE THE SECURITY FIX...

REMOVING SECURITY WORKAROUND

Resetting your NVRAM

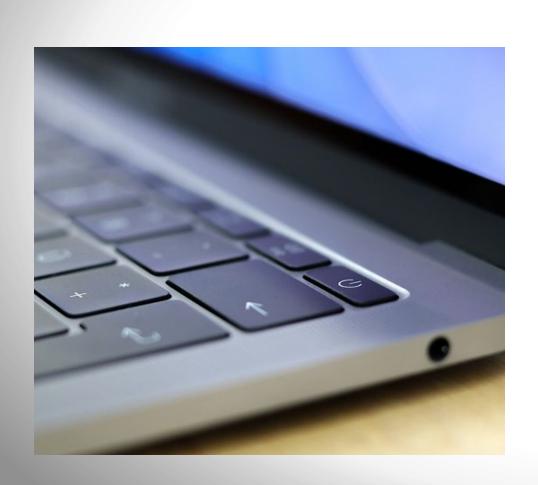
- SHUT DOWN YOUR MAC
- **2** TURN IT BACK ON

3 IMMEDIATELY HOLD THESE FOUR KEYS:

<CMD><OPTION><P><R>

ALLOW YOUR MAC TO REBOOT TWO TIMES

AFTER RESETTING, YOU MAY WANT TO CHECK YOUR SYSTEM PREFERENCES SUCH AS:



- SOUND VOLUME
- DISPLAY RESOLUTION

- STARTUP DISK SELECTION
- TIME ZONE



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