Apple Device Administrator's Meeting

IT Services, University of Oxford

Hilary Term, 2018

Agenda

12:30 - Introduction

12:35 - Ben Goodstein: macOS 10.13 and the iMac Pro for Administrators

12:50 - Q&A

12:55 - Chris Beard: Meltdown and Spectre: Staying Safe

13:10 - Q&A/Discussion

macOS 10.13

and the iMac Pro

Ben Goodstein, Technical Leader (Apple)
IT Services, University of Oxford
@fuzzylogiq - Twitter, Github & Macadmins Slack

macOS 10.13 & iMac Pro Admin Changes

☞ Imaging (mostly) dead

☞ APFS - APple File System

☞ Secure Token - For Encryption

☞ UAKEL - User Approved Kernel Extension Loading

☞ UAMDM - User Approved MDM

☞ Secure Boot

Imaging (Mostly) Dead

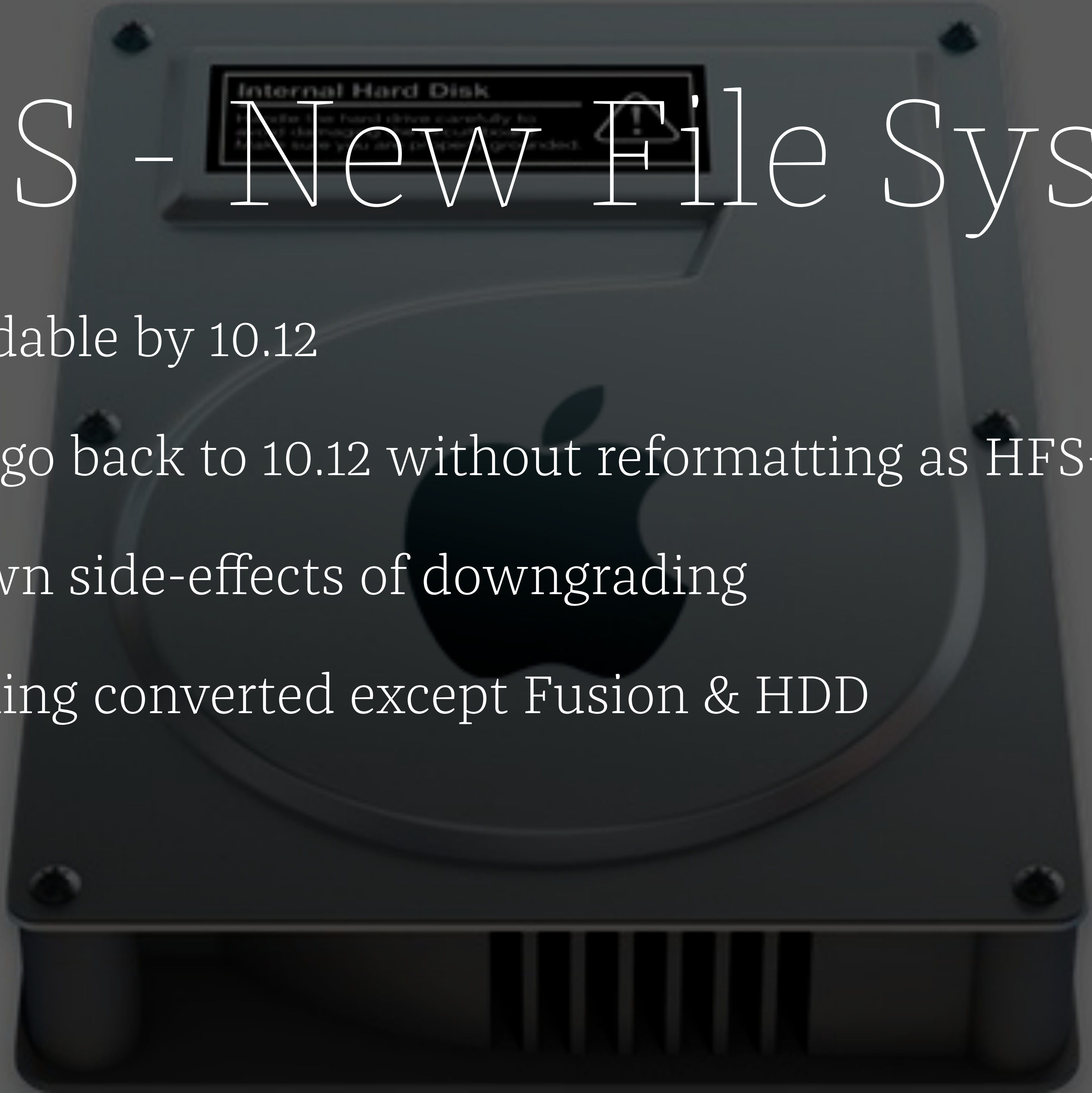
☞ Installation recommended

☞ Firmware updates

☞ iMac Pro cannot boot from network

☞ DEP/bootstrappr

APFS - New File System

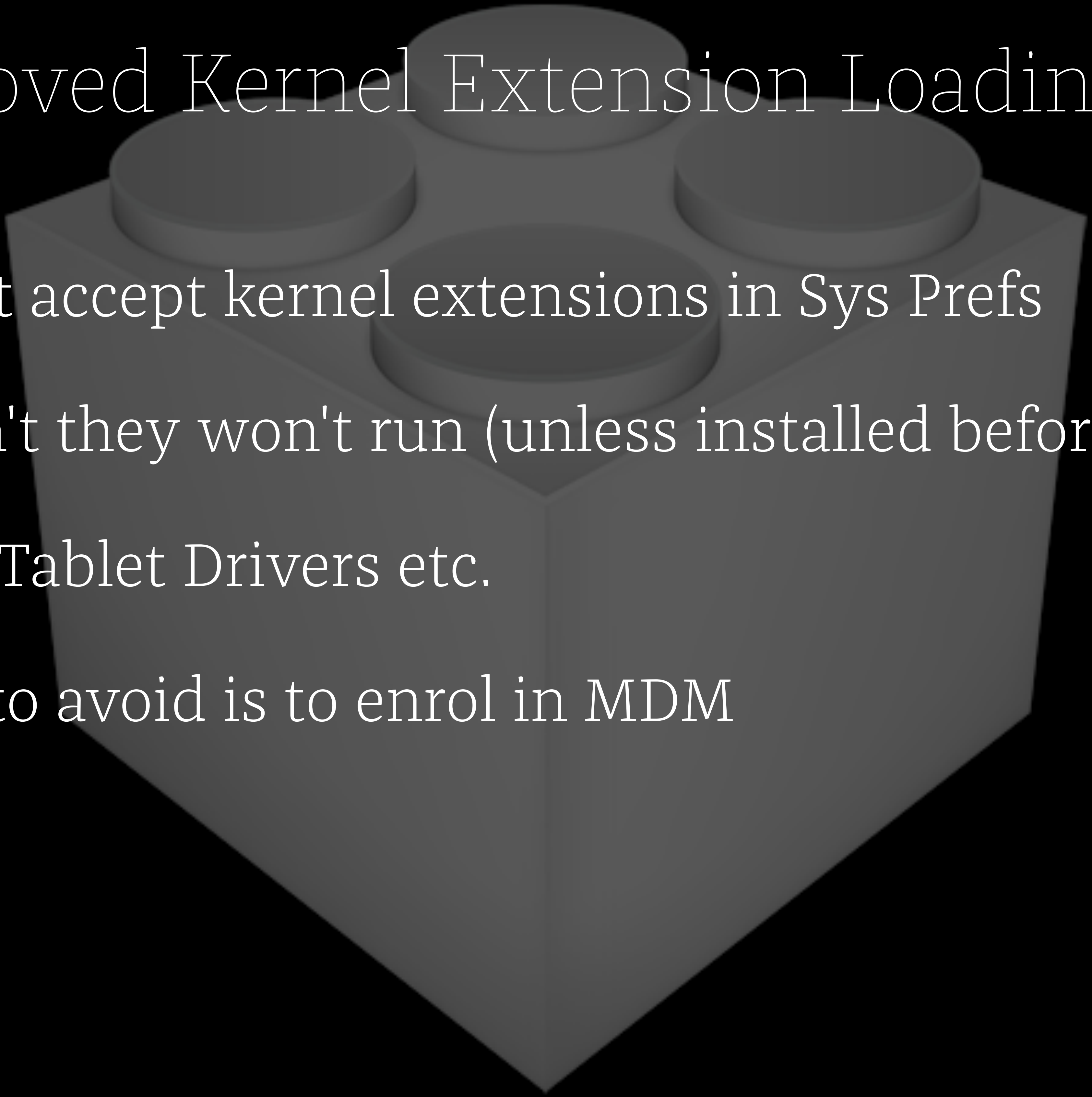


- ☞ Not readable by 10.12
- ☞ Cannot go back to 10.12 without reformatting as HFS+
- ☞ Unknown side-effects of downgrading
- ☞ Everything converted except Fusion & HDD

Secure Token for Encryption

- Allows use to add/remove users from FileVault
- First user created with Setup Assistant to log in
  - or first mobile account (if created by macOS)
- Won't work if created with scripts
- Use `sysadminctl` to check and grant/revoke other accounts

User Approved Kernel Extension Loading (UAKEL)



☞ Users must accept kernel extensions in Sys Prefs

☞ If they don't they won't run (unless installed before upgrade)

☞ AntiVirus, Tablet Drivers etc.

☞ Only way to avoid is to enrol in MDM

☞ But...

User Accepted Mobile Device Management (UAMDM)

- Introduced in 10.13.2
- Users must accept enrolment into MDM
- Cannot be done remotely
- Only way to avoid is to use DEP
- Will allow you to whitelist kexts

Secure Boot

☞ Introduced with the iMac Pro/T2

☞ Boot only trusted/signed macOS/BootCamp

☞ Can be managed with Startup Security Utility in Recovery

☞ Also control whether iMac Pro can boot external

☞ `systemsetup` can no longer boot to another partition

References

Imaging

- https://support.apple.com/en-us/HT208020
- https://scriptingosx.com/2017/10/imaging-is-dead/
- https://github.com/munki/bootstrappr

Secure Token

- https://derflounder.wordpress.com/2018/01/20/secure-token-and-filevault-on-apple-file-system/

UAKEL/UAMDM

- https://developer.apple.com/library/content/technotes/tn2459/_index.html
- https://derflounder.wordpress.com/2017/08/24/kernel-extensions-and-macos-high-sierra/
- https://support.apple.com/en-us/HT208019

Secure Boot

- https://support.apple.com/en-gb/HT208330
- https://twocanoes.com/secureboot-imac-pro/

Any
Questions?