

Increasing Security by Focusing on the Endpoints

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UNC CHARLOTTE



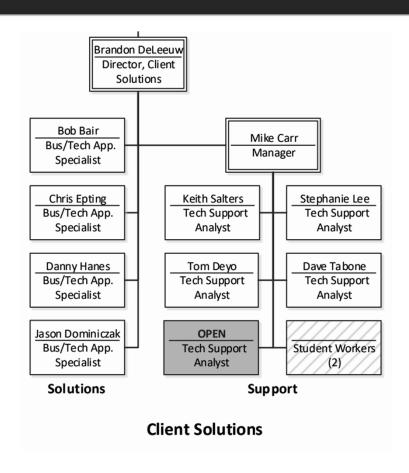
BACKGROUND



Why endpoint security?

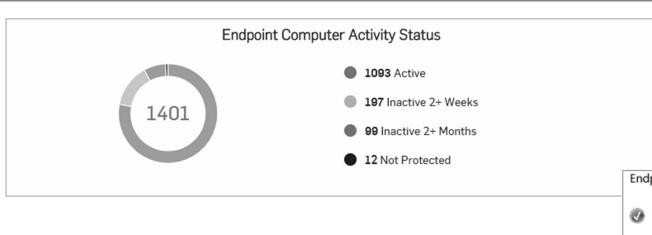
End user devices are among the most vulnerable parts of an IT infrastructure. To help mitigate the vulnerabilities associated with these devices, the University of North Carolina at Charlotte has focused on leveraging built-in tools that secure these endpoints and reduce costs by leveraging tools that already exist.

ORGANIZATIONAL CHANGES





ANTI-VIRUS



Endpoint Protection Client Status

Total active clients in this collection protected with Endpoint Protection: 95.7%

Total devices in this collection: 6625

Endpoint Protection clients in this collection that are active: 6154

- Active clients protected with Endpoint Protection: 5890
- Active clients at risk: 264

Clients in this collection that are inactive or not installed: 471

- Endpoint Protection agent not yet installed: 21
- ii Endpoint Protection agent not supported on platform: 0
- Configuration Manager client inactive: 408
- Configuration Manager client not installed: 42

MALWARE AND BOTNETS



NEW ACTIVE DIRECTORY SCHEME

▶

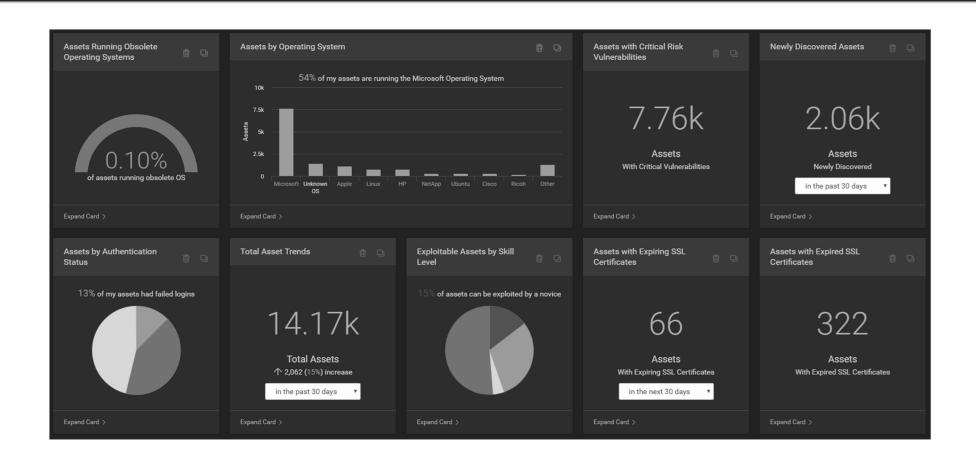
■ AAFR ▶ ■ ADVANCE ▶ ■ ASSESS ▶ ■ BCOB ▶ ■ CCI ▶ ■ CHHS D COAA ▶ ■ EMR ▶ ■ GRAD ▶ ■ INRS ⊿ 🛅 ITS Diagram Center for Teaching and Learning Dient Engagement Dia Conference-Rooms ▶ ■ Enterprise Applications ▶ ■ Enterprise Infrastructure ▶ i Information Security Compliance ▶ ■ Leadership ▶ I Limbo ▶ ☐ Planning & Administration Dil University Research Computing

ENCRYPTION

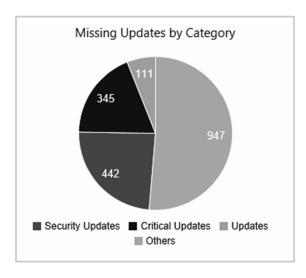
Bitlocker and FileVault Central Key Store New Standard



VULNERABILITY SCANS



MONTHLY PATCHING



ITS, 20%, 80%

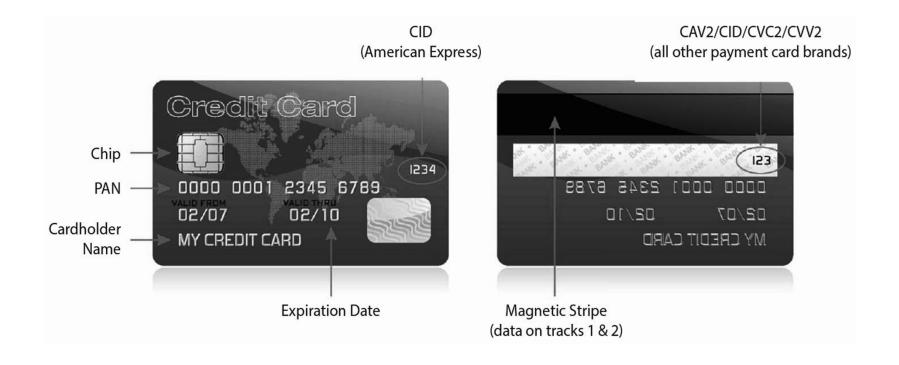
OPERATING SYSTEM UPGRADES



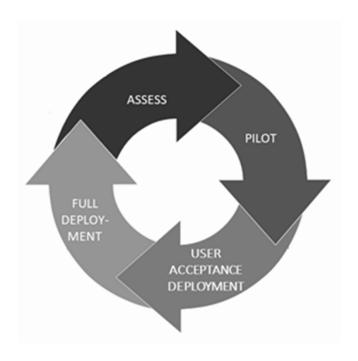
OPERATING SYSTEM UPGRADES



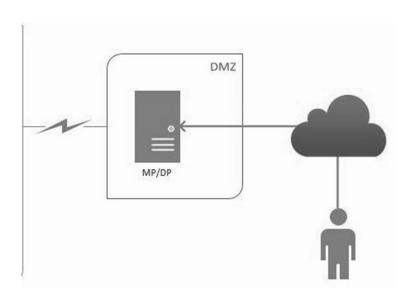
PCI



THIRD-PARTY PATCHING



OFF NETWORK MANAGEMENT





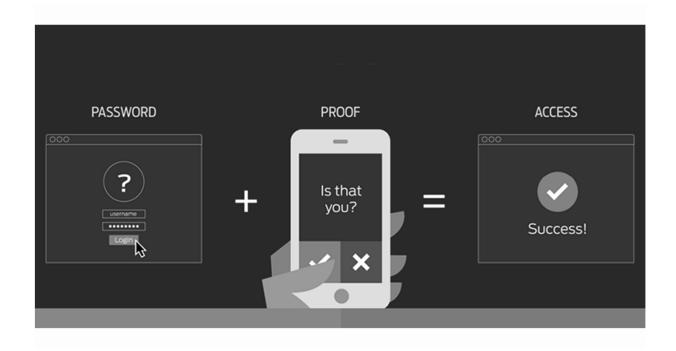
PRINTERS

Open Relay
Separate VLAN
Security Checklist

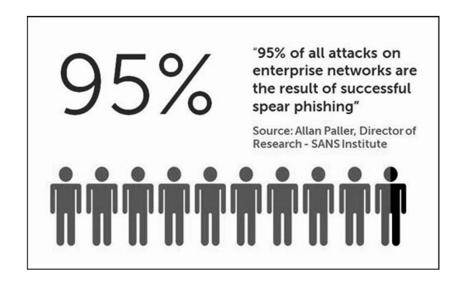


SPIRION

DUO



PHISHING SIMULATIONS



LESSONS LEARNED

- Have the people who "care the most" "own" the service
- Everything takes time and thoughtful planning
- Use planned/phased rolls outs when able
- Have policy align with practice e.g. encrypting the mobile devices

Questions