
YOU CAN'T PATCH DIGITAL HERITAGE

Balancing cyber security controls with digital preservation practice

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Update on extended service disruption: Member access to eresources back online. Catalogue currently unavailable. We apologise for the inconvenience. [Learn more](#)



Catalogue

Menu ☰

Search the collection 🔍

Search the collection

Search the collection

Browse digital collections →

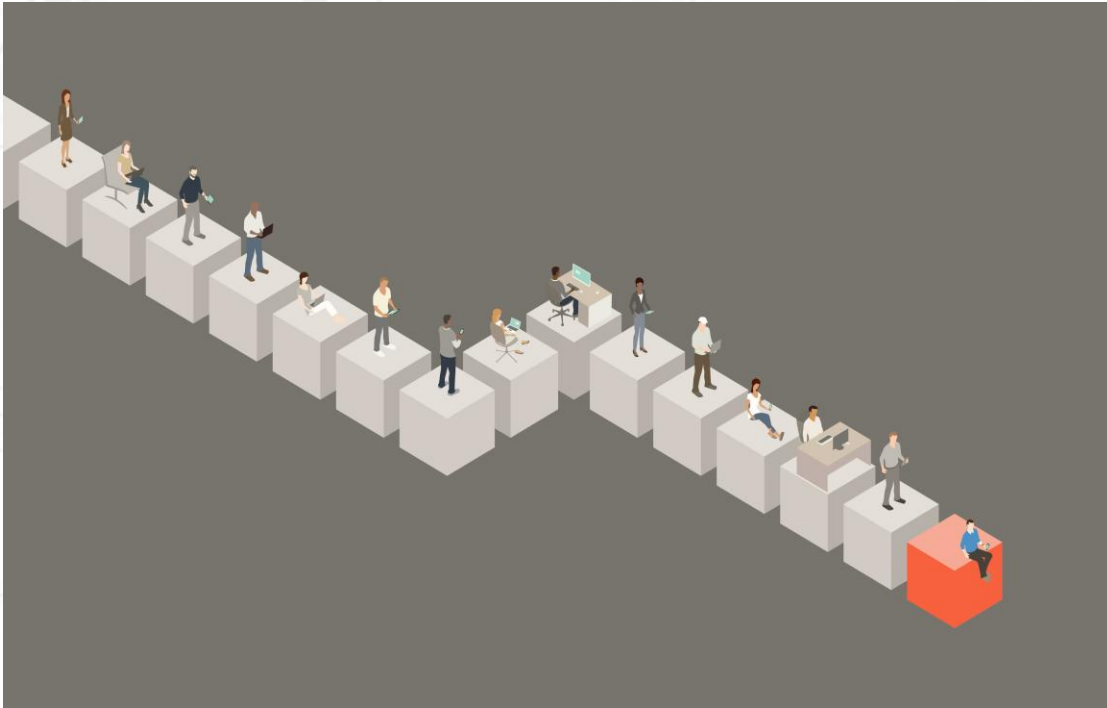
All Fields ▾

Enter a keyword or phrase e.g. "Redfern subdivision plans"

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DIGITAL PRESERVATION



Managed activities to ensure continued access to digital collections for as long as necessary



Access depends on hardware, software, metadata, documentation, and ongoing activities

DIGITAL PRESERVATION AND CYBER SECURITY SHARE IMPORTANT GOALS



Data integrity and authenticity



Access control and authorisation



Risk management and mitigation



Compliance and regulatory adherence



Awareness and education



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ED D/DENSITY
SECTOR 40 TK



COPY
This disk contains a
variety of programs to
copy - "uncopyable"
disks

Our digital heritage is not supported



WHERE TENSION BEGINS

Standardisation and patching vs variation and legacy access

Application control

Checking programs against a pre-defined approved list and blocking all programs not on this list.

Patch applications

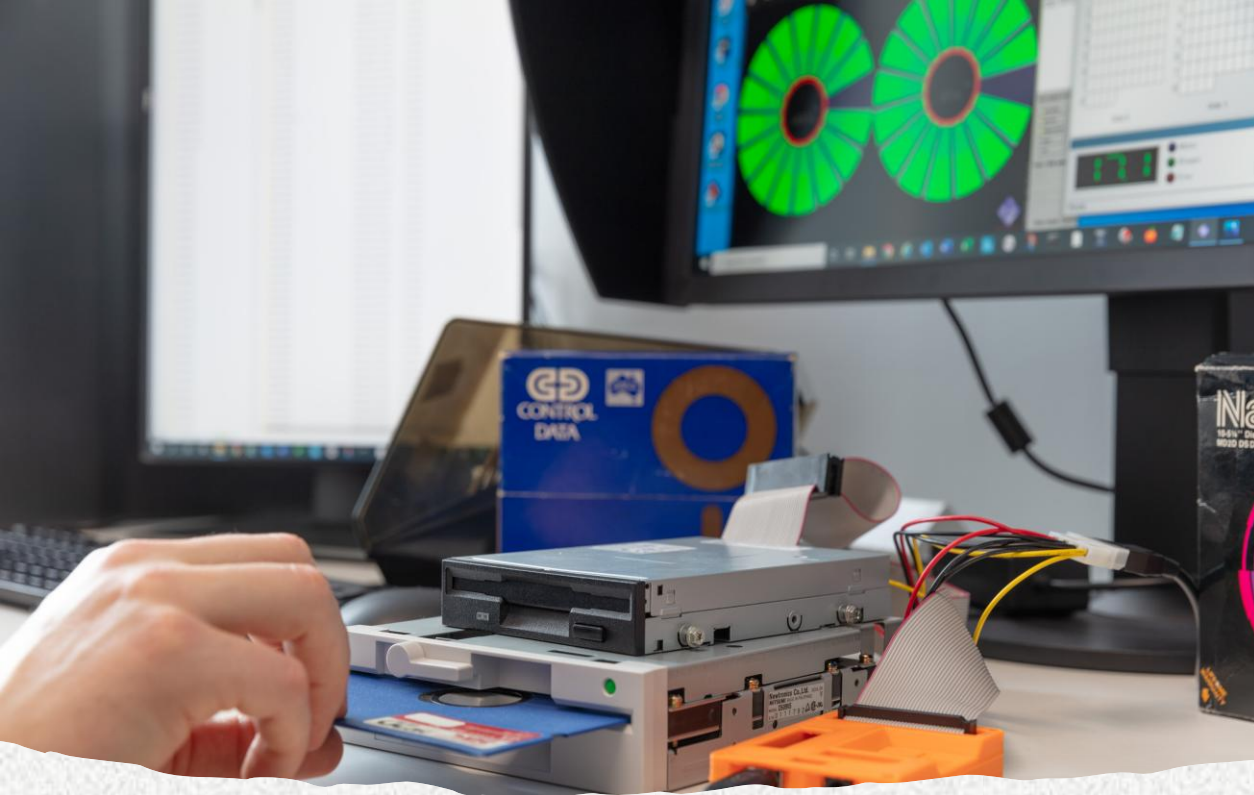
Do not use applications which are out-of-support and do not receive security fixes.

Restrict administrative privileges

Limit how accounts with the ability to administer and alter key system and security settings can be accessed and used.

Patch operating systems

Do not use versions of an Operating system which are old and/or not receiving security fixes.



D I G I T A L P R E S E R V A T I O N L A B

STANDARD OPERATING ENVIRONMENT TIMELINE

Windows 7

Admin privileges

2017

2020

Windows 11

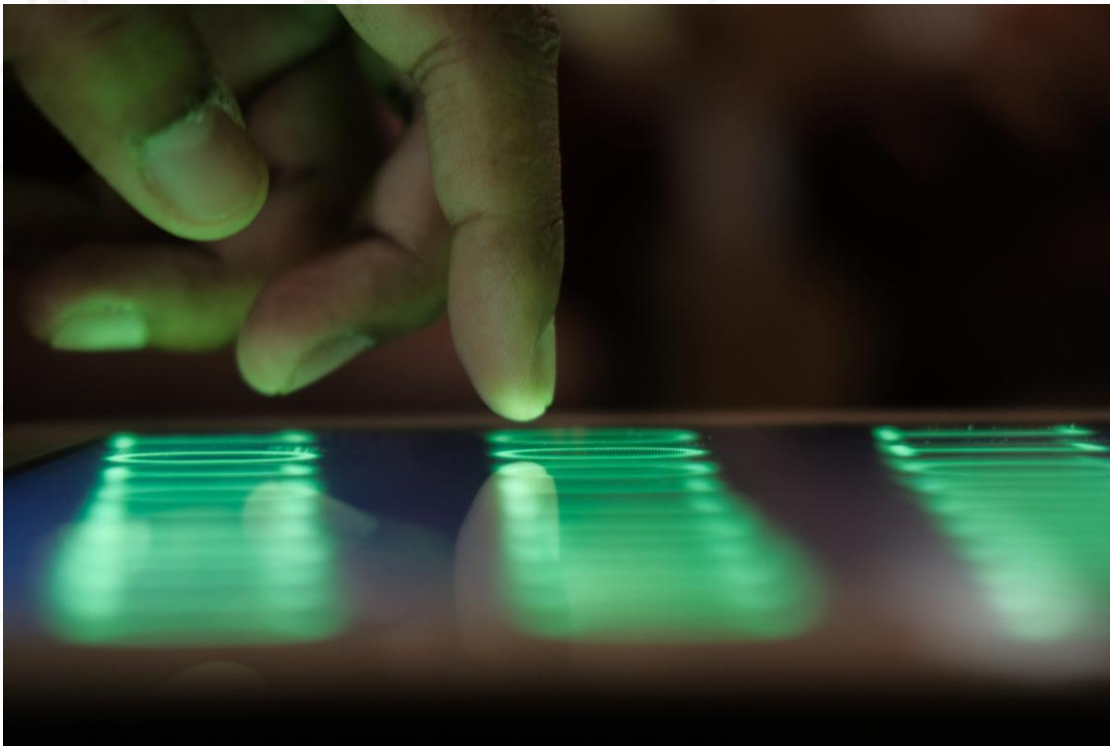
Application control (allowlisted apps only)

2023

Windows 10

Admin privileges revoked

APPLICATION CONTROL AND ELEVATED PRIVILEGES



- Privilege elevation functionality in Windows 11 allows standard users to safely complete tasks that require elevated privileges
- Per-user license required, used for disk imaging software like *FTK Imager* and *IsoBuster*
- Newer version of *Forensic Toolkit* (FTK) can be installed with the option to run without administrator privileges

**MALWARE
DETECTED**



YOU CAN'T PATCH DIGITAL HERITAGE

Balancing cyber security controls with digital preservation practice

- Cyber security and digital preservation are not just technical challenges.
- Communication between digital preservation, ICT, and cyber security teams is critical for implementing cyber security controls.
- Acknowledge and plan for additional resourcing required to allow digital preservation activities to continue within standard operating environments.
- Acknowledge born-digital heritage as part of cyber security governance, not just systems, services, and business records.