

Background to IEP

IT TRANSFORMATION LOOKING AHEAD

			Activity			
Priority	#	Recommendation	FY22	FY23	FY24	FY25
0	0.0	Establish the IT Transformation program office	X			
1	1.2	Establish a University-wide IT governance model	X	Х		
2	3.2	Standardize job classifications for IT staff across VT	X	Х	Х	
3	1.3	Establish University-wide IT PMO and IT enterprise architecture functions		Х	Х	
4	6.4	Deploy an endpoint data loss prevention (DLP) solution		Х	Х	
4	6.5	Full deployment of endpoint detect and respond (EDR) solution		Х	Х	
5	6.2	Managed 24x7 security operations center (SOC)		Х		
6	6.3	Reshape identity through identity and access management (IAM)		Х	Х	
7	6.1	Enforce the CIS IG2 minimum for systems processing sensitive data	X	Х		
8	6.6	Develop procedure guides to augment the minimum security standards		Х		
9	4.2	Deploy a common integration layer		Х	Х	
10	4.1	Enhance data governance		Х	Х	
11	2.2	Streamline software procurement		Х		
12	5.1	Implement university-wide CMDB processes and tools		Х	Х	
13	3.1	Revise DoIT's organizational model		Х	Х	
	1.1	Define the University-wide IT operating model		Х		
	2.1	Optimize funding model			Х	Х
	4.3	Rationalize application portfolio		Х	Х	X
	4.4	Establish data center consolidation strategy/cloud enhancement		Х	Х	X
	4.5	Define strategy for adopting managed services and SaaS solutions			Х	
	5.2	Enhance maturity of core ITSM processes			Х	Х



Key

Funded through reallocation or budget not needed

Budget request submitted for FY 2023

Budget not yet analyzed or requested

What is EDR and DLP

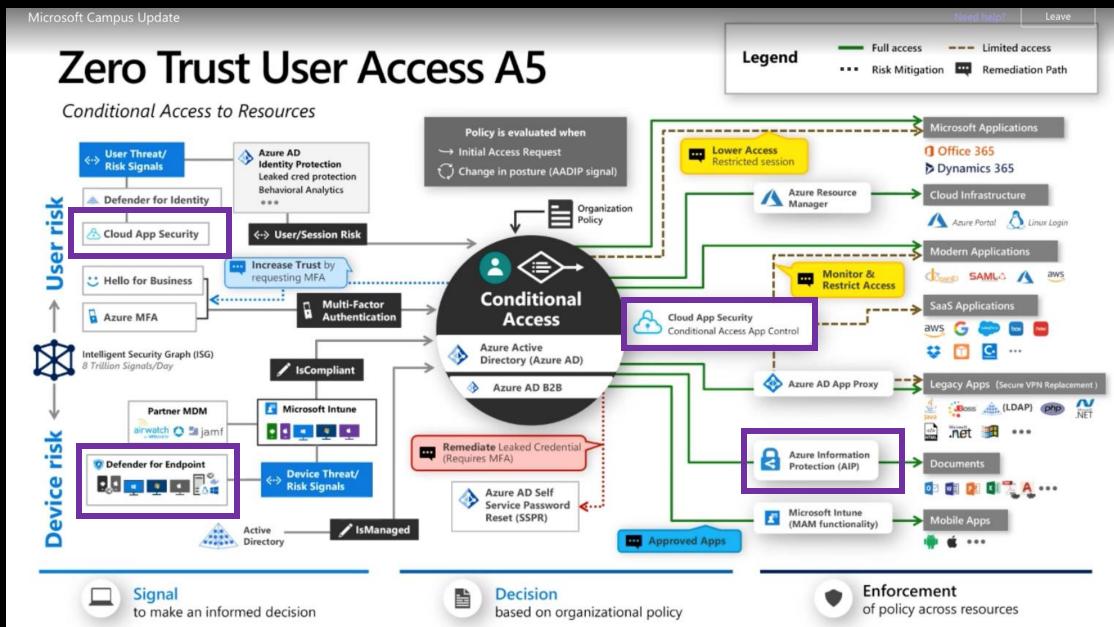
EDR

- Endpoint Detection & Response
- "What happened and what is currently happening on an endpoint?"
- e.x. A ransomware dropper installed via a web drive-by

DLP

- Data Loss Prevention
- "What types of data do you have and what are you allowed to do with it?"
- e.x. Trying to upload a file marked PII to a 3rd party file storage service like Dropbox

Supporting technology



Licensing

Microsoft 365 Component Map		Services & Features	A1	A3	A5
Office	Collaboration & Learning	Exchange Online (email and calendar), Teams, Yammer (social)	1	/	1
		OneDrive for Business and SharePoint Online (files and sharing)	1	1	√
		Groups (shared spaces) and Planner (work management)	1	1	✓
		Office Online web-based editing (Word, Excel, PowerPoint, and OneNote)	1	1	1
		Office ProPlus Client (Word, Excel, PowerPoint, Outlook, OneNote)		1	✓
	Classroom Tools	Microsoft Teams Classroom, PLCs, and StaffHub	1	1	√
		OneNote Class Notebook, Sway	/	1	1
	More Inclusive Classrooms	Learning Tools, Accessibility Checker, Office Lens	1	1	1
	Compliance	Legal Hold, eDiscovery	/	1	✓
		Information Protection and Governance			✓
		Insider Risk Management			✓
		Advanced eDiscovery & Audit			✓
	Management & Security	Exchange Online Protection, DLP, Azure Rights Management, Message Encryption, School Data Sync	✓	1	✓
		Office 365 Cloud App Security		1	✓
	Advanced Security Microsoft Defender for Office 365 P1, Microsoft Defender for Office 365 P2				✓
	Analytics	ytics Power BI Pro, MyAnalytics, Delve			✓
	Voice, Video, and Meetings	Microsoft Teams	√	1	✓
		Bookings, Live Events, Microsoft Stream		√	✓
		PSTN Dial-in Conferencing, Cloud PBX			√
Windows	Operating System	Windows 10 Upgrade License (Education Edition, Enterprise, Enterprise LTSB, & Pro)		1	✓
	Management and Security	Windows Defender Antivirus		✓	✓
		Device Guard, Credential Guard, Exploit Guard		✓	✓
	Advanced Security Microsoft Defender for Endpoint				✓
iterprise Mobility + Security	Management and Security	Azure Active Directory P1 (SSO, MFA, SSPR, Conditional Access, Dynamic Groups)		1	✓
		Azure Information Protection P1 (document classification, tracking, and revocation)		✓	✓
		Intune (MDM and Mobile Application Management (MAM) without the need for device enrollment)		✓	✓
	Advanced Security	Azure Active Directory P2 (Identity Protection and Privileged Identity Management)			✓
		Azure Information Protection P2 (automated classification and hold your own key)			✓
		Microsoft Cloud App Security			1
En		Microsoft Defender for Identity			1

Scope

All University owned endpoints (laptops, desktops)

- Includes Windows, MacOS, Linux OSes
- Does not include server OSes (that's another thing...)
- Does not include mobile devices

Includes SaaS solutions for end-to-end DLP protection

- M365
- Google Workspace

Project status

- Charter signed
- Steering Committee formed
- CCS position posted (review starts 10/14)
- Microsoft Defender for Endpoint (MDE) pilot mode complete
- MDE service in production
 - https://4help.vt.edu/sp?id=sc_cat_item&sys_id=3776f9e01b 8b01107dcddb1fdc4bcb07
- Exchange Online DLP for social security numbers and credit card warnings has been running in the environment since March 2021

IT Transformation dashboard

• https://svpcbo.vt.edu/Initiatives/ittransformation/dashboard.html



