

Agenda

- 1. Introduction
- 2. Cool security features MFA, Conditional Access, Cloud App Security, and Azure ATP



3. MFA Deep Dive



- 5. Overview of CAS and AATP
- 6. Cloud success story





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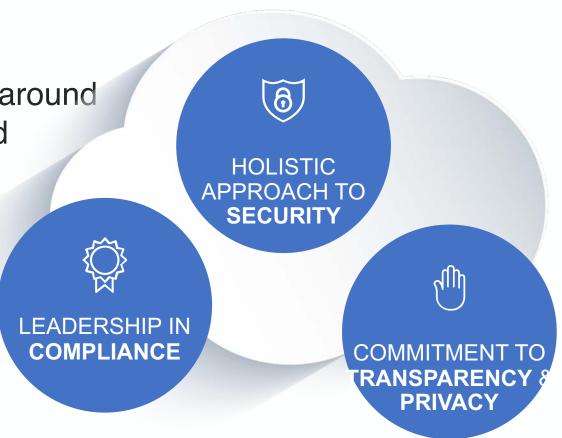
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Today's Objective

To provide information around 2019 Microsoft updated security capabilities



The Stages Of Adoption



OPTIMIZE

- Keystone Essentials/Complete for Azure
- · Cost Management Dashboard
- · Cost Optimization Insights



MIGRATION

- Knowledge Transfer in PS projects
- Configuration Mentorship for Keystone



PLAN

- Workloads Assessment (WLA)
- Cost Optimization Assessment
- Azure Infrastructure Assessment
- Azure Governance Workshop



GET MOVING

- Consumption Plan Estimate
- Production workload Pilot



Adoption

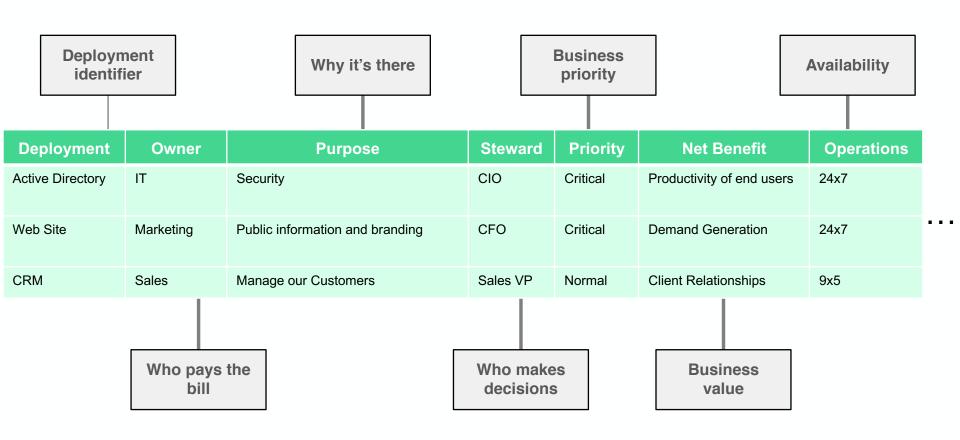
GAP ANALYSIS

- Public Cloud Assessment
- ITAM Assessment

Time



Governance Modeling



What is the **Number 1** culprit in security failures in most organizations?



Windows XP box that was forgotten about?

Server room being left pried open?

That TCP/3389 external firewall rule that is still enabled?



Ok if you guessed

TCP/3389 external firewall rule that is still enabled (Remote Desktop open to the internet)

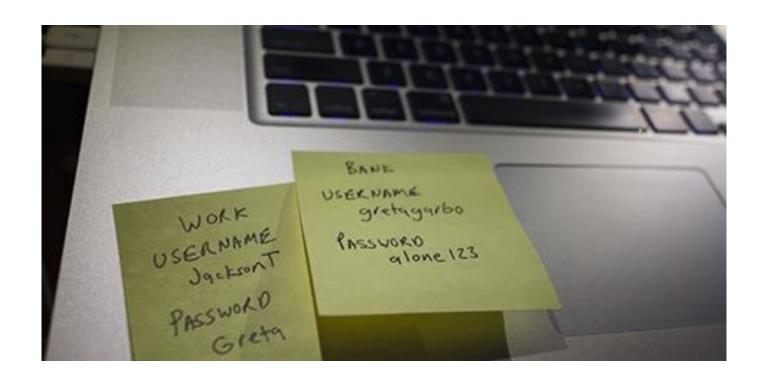
Good guess but not quite*

*Try this on an Azure virtual machine, you will within an hour get brute forced with hundreds of thousands of login attempts an hour!











If you guessed poor user practices – you would be correct

Phishing, social engineering, poor passwords, passwords stuck under keyboards...



Now – what if you could enable features you likely already own in the cloud

So, if your users do many of the terrible things, they will still do no matter how many times IT sends out those phishing email tests and alike

You just don't have to care, or worry (as much anyway)

As their terrible password is far from the last line of defence

And bonus! You are paying for these features already

You just have to turn them on ©



What all do you already own?

Lot's of services to maintain and secure...

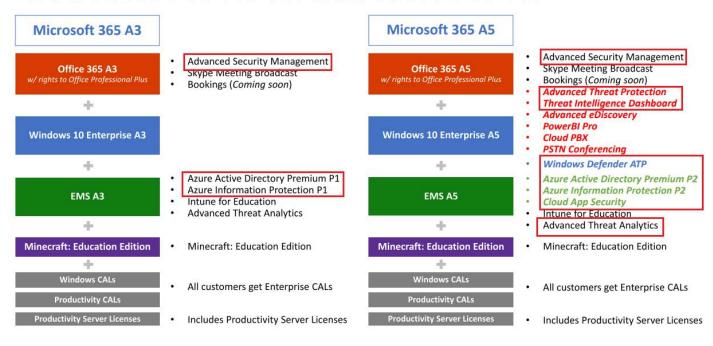
Microsoft 365 A3 vs. Microsoft 365 A5



Security Features of Interest

Good news! You own all of the pieces to do just that!

Microsoft 365 A3 vs. Microsoft 365 A5





Multi-Factor Authentication

- Think of when you call a bank
 - Do you just give your name and account number and get access to your money?
- Same ideology for accessing Office 365
 - A push notification to your phone or smart watch
 - Text message
 - Phone call
 - Token



To get MFA going for Office 365

- 1. Enable Modern Authentication in Office 365
 - Two PowerShell commands
- 2. Install the Microsoft Authenticator on your device
 - iOS and Android support
- 3. Enable MFA on your user account
- 4. Log in as the user, and enroll your device
- 5. MFA is now setup for this account!



What works and doesn't with MFA?

- Office 2013 SP1 or newer (16/19)
 - Office 2010 does not support Modern Auth
- MFA works natively with:
 - Outlook App (iOS and Android)
 - iOS Mail App (iOS 11 and higher)
- MFA does not work with:
 - Android Mail App (all brands)



But with any good thing...

- Comes the problem Personal devices
 - For this to work a mobile device is generally required
 - Employee's can refuse to use their personal device for this purpose, and it cannot be forced on them
 - Device subsidies or corporate owned devices defeat the savings
 - Tokens can be used also not a perfect solution
 - Easily lost, poor user experience, and not cheap in their own right
- Can an organization have secure access to the cloud without MFA?
 - Yes, yes you can!





Requirements for Conditional Access

- Domain and Forest FL at 2012 or higher
- AADC configured for Hybrid AD Join or
- Intune agent installed on each device
- Works for both Federated (ADFS) and Managed Tenants
- Computer Objects sync'd into the cloud
- Windows 10 1703 and greater is preferred



How to setup Conditional Access?

- 1. Create a new Conditional Access Rule
- 2. Select the cloud services you want to protect
- Select what type of devices the rule is being enforced against (i.e. Desktops or Mobile devices)
- 4. Select the users or groups in scope for the rule
- 5. Select the condition for access (i.e. Hybrid AD Joined Computer or Intune Compliant)
- 6. Enable the rule
- 7. You are now protected!



So – that's it?

A user never knows?



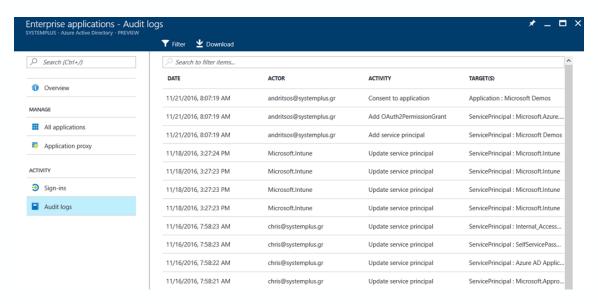
Well Almost - Notes on Conditional Access

- Supports Internet Explorer and Edge Natively
- Chrome is supported with the Microsoft Account extension
- Firefox, Opera, Safari etc not supported
- Intune agent conflicts with SCCM agent
 - Thus why Hybrid AD Join is the preferred method



How do you know something is wrong?

 Have you ever looked at your sign-in or audit logs?

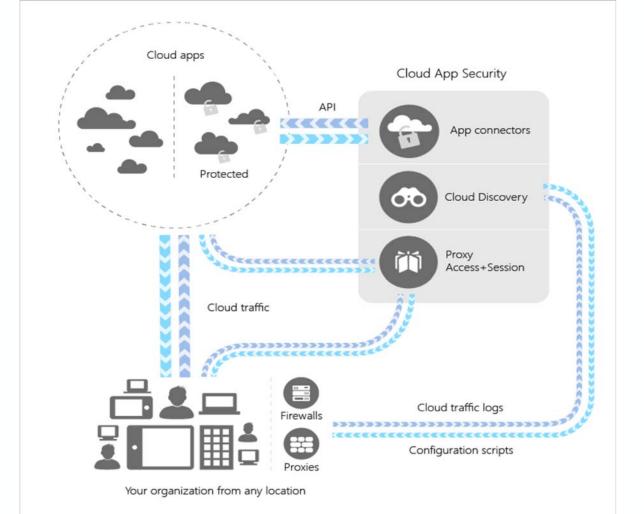




Too much noise!

- Thousands and thousands of entries
 - How can you get it down to problems or issues?
- A5 license holders are in luck!
 - Cloud App Security parses your logs and for the most part helps you see through the noise
 - Some assembly is required of course



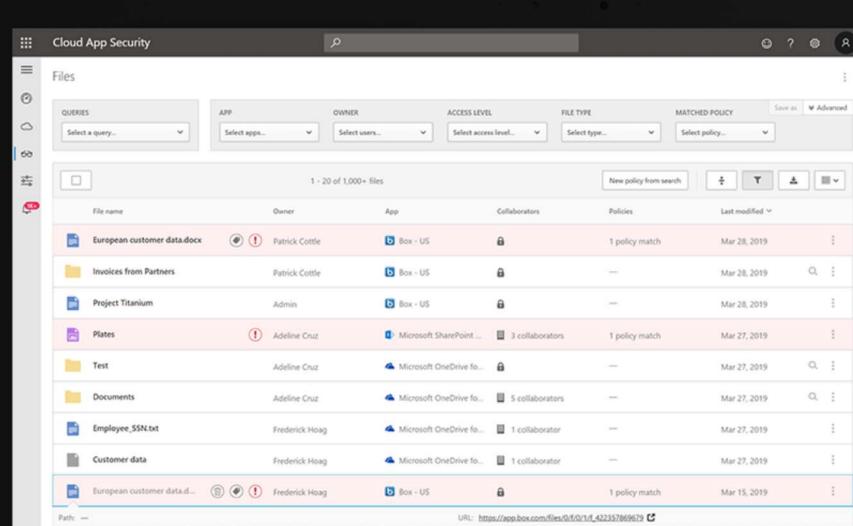




How to deploy Cloud App Security

- Enable Cloud App Security
- Enable Azure Information Protection
 - This is required for using CAS policies for data retention
- Connect Cloud App Security to cloud apps
 - Office 365, Azure, AWS, Dropbox, Box, G-Suite, Okta, Salesforce, and ServiceNow are supported
- Upload Firewall traffic logs for analysis

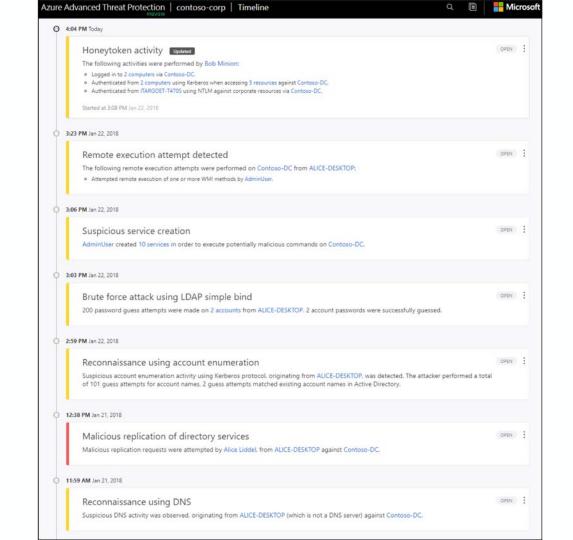




Azure Advanced Threat Protection (ATP)

- Protect on-prem Active Directory
 - Understand when a threat has occurred inside your network
 - 1. Active the Azure ATP Tenant
 - 2. Install the agent on ALL domain controllers
 - 3. Setup sensor options
 - 4. Hope you don't get any alerts like these...





Questions?



Thank you for time!

