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2019

Artificial Edition

6-8 February



Protect your front door:  
Use Conditional Access and MFA

to keep corporate data secure and your users productive at the same time

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# Agenda

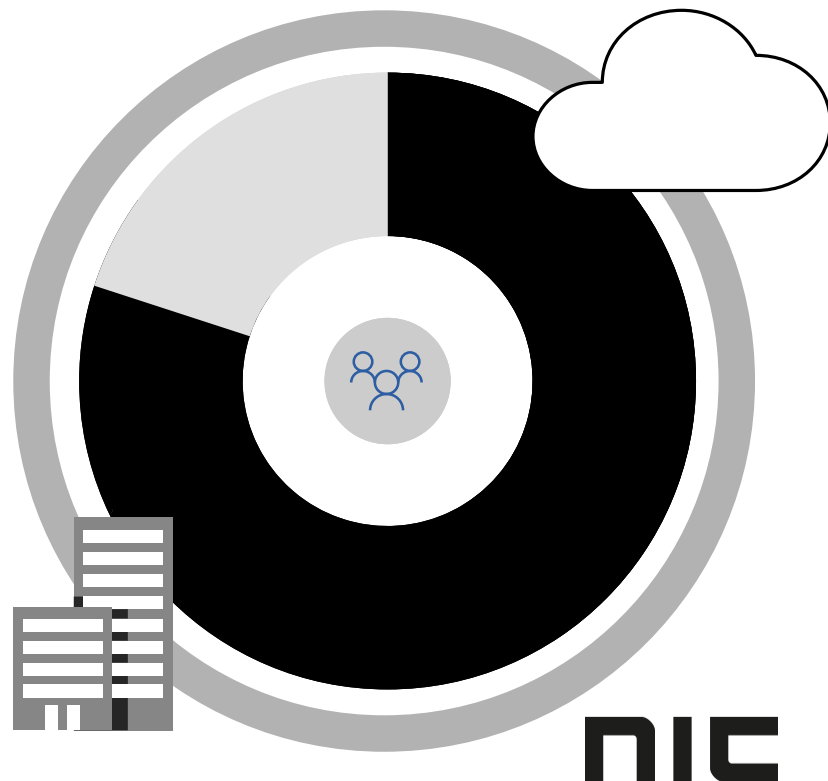
- Protecting my front door?
- Azure Multi-factor Authentication and Conditional Access
  - Configure MFA
  - Configure CA in General
  - Configure CA for Outlook
  - Configure CA for Co-Management
- #DemoHeavy

# Digital transformation is driving change

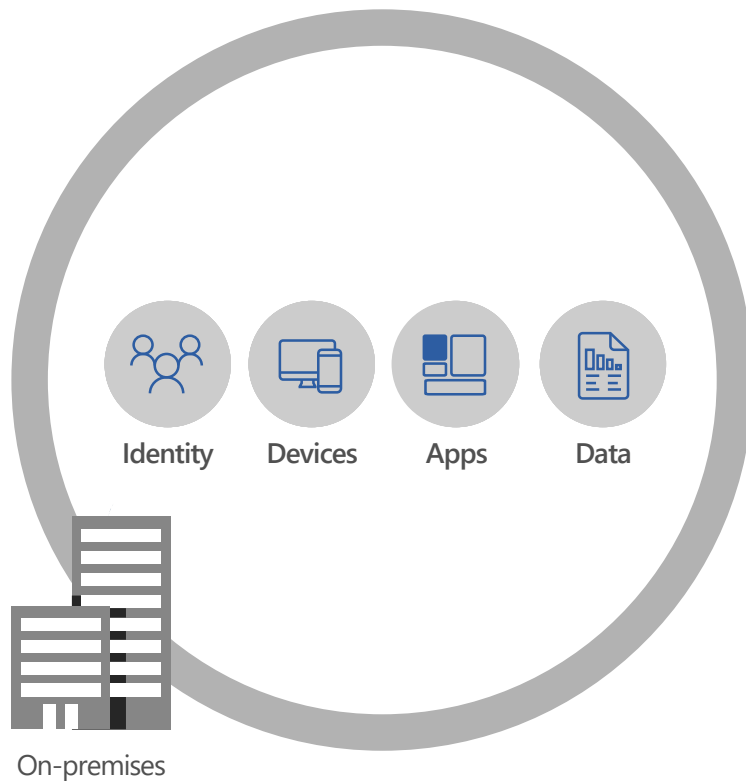
**41%** of employees say mobile business apps change how they work

**85%** of enterprise organizations keep sensitive information in the cloud

**80%** of employees use non-approved SaaS apps for work



# The security perimeter has changed



# Protect at the front door

# 81%

of hacking breaches  
leverage stolen and/or  
weak passwords



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# What is Multi-Factor Authentication?

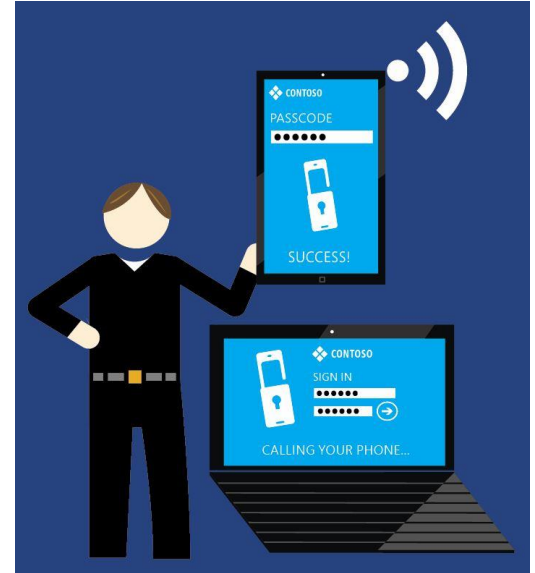
- Multiple factors are required for sign-In
  - Familiar to consumer cloud service users such as the Microsoft Account
  - Simple block to password compromise from another location
  - Addresses regulatory compliance and high risk user scenarios
  - AKA two-factor, 2FA, MFA, strong authentication
- Two or more of the following factors:
  - Something you know – a password or PIN
  - Something you have – a phone, credit card or hardware token
  - Something you are – a fingerprint, hand geometry, retinal scan or other biometric
  - Stronger when using two different channels (out-of-band)
- Types of multi-factor authentication:

Hardware OTP Tokens	Phone Call, Text Message, and Push
Certificates	Software OTP Tokens
Smart Cards	
Phone-Based Authentication:	



# Microsoft Azure Multi-Factor Authentication flavors

- Supports
  - Phone Calls
  - Text Messages
  - Mobile Apps (iOS, Android)
- Users manage their own authentication methods and phone numbers



# Demo

- Configure Azure MFA
- Azure Authenticator app
- Logon to Teams (Browser) with MFA
- Force MFA on impossible logon (Identity Protection)
- Trusted locations
- Terms of use

How much control do  
you have over access?

Who is accessing? What is their role?  
Is the account compromised?



Where is the user based? From  
where is the user signing in? Is the  
IP anonymous?



Which app is being accessed?  
What is the business impact?



Is the device healthy? Is it managed?  
Has it been in a botnet?

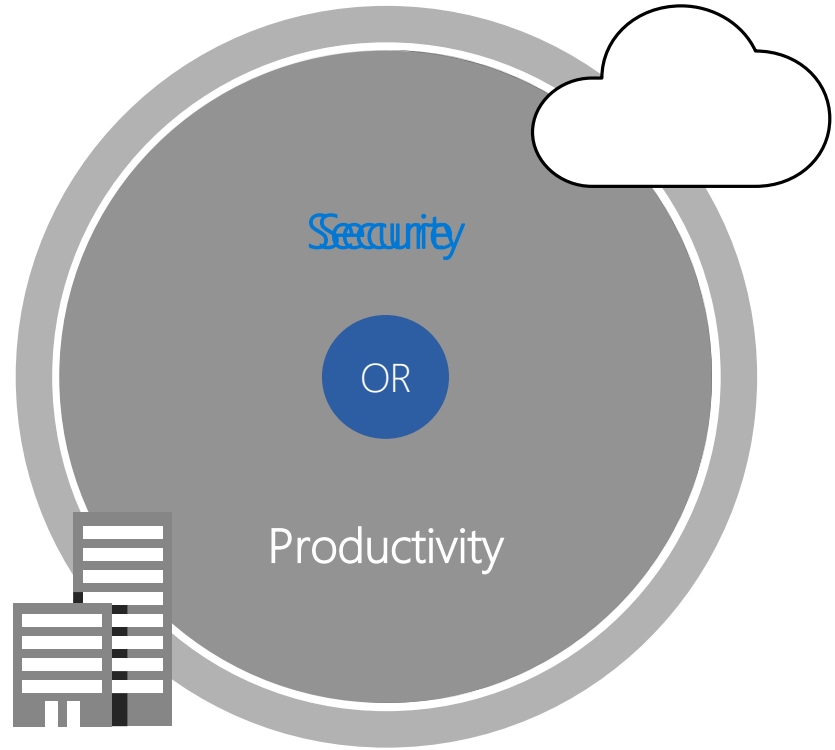


What data is being accessed?  
Is it classified? Is it allowed off  
premises?



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How do we enable productivity without compromising security?

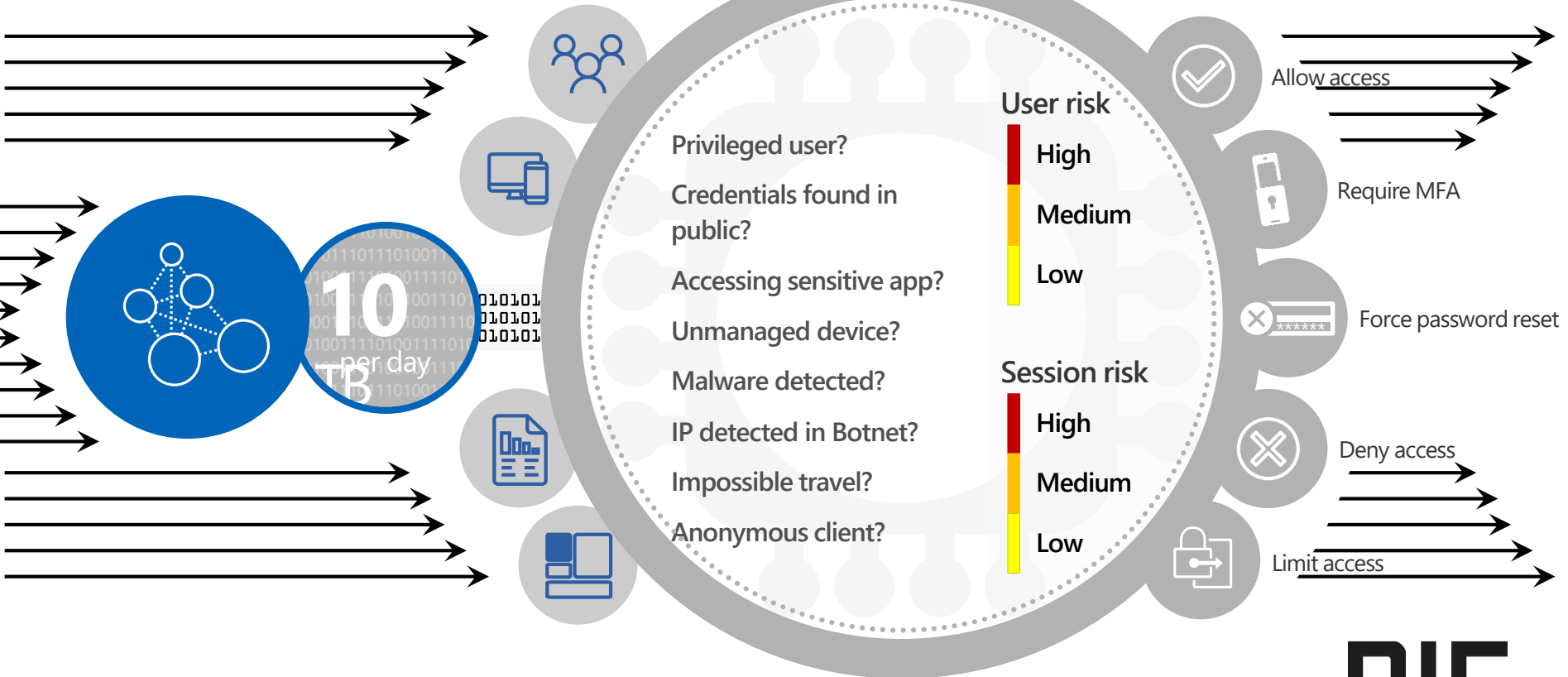


It's a delicate balance  
The security you need integrated  
with the productivity tools you want  
between productivity & security

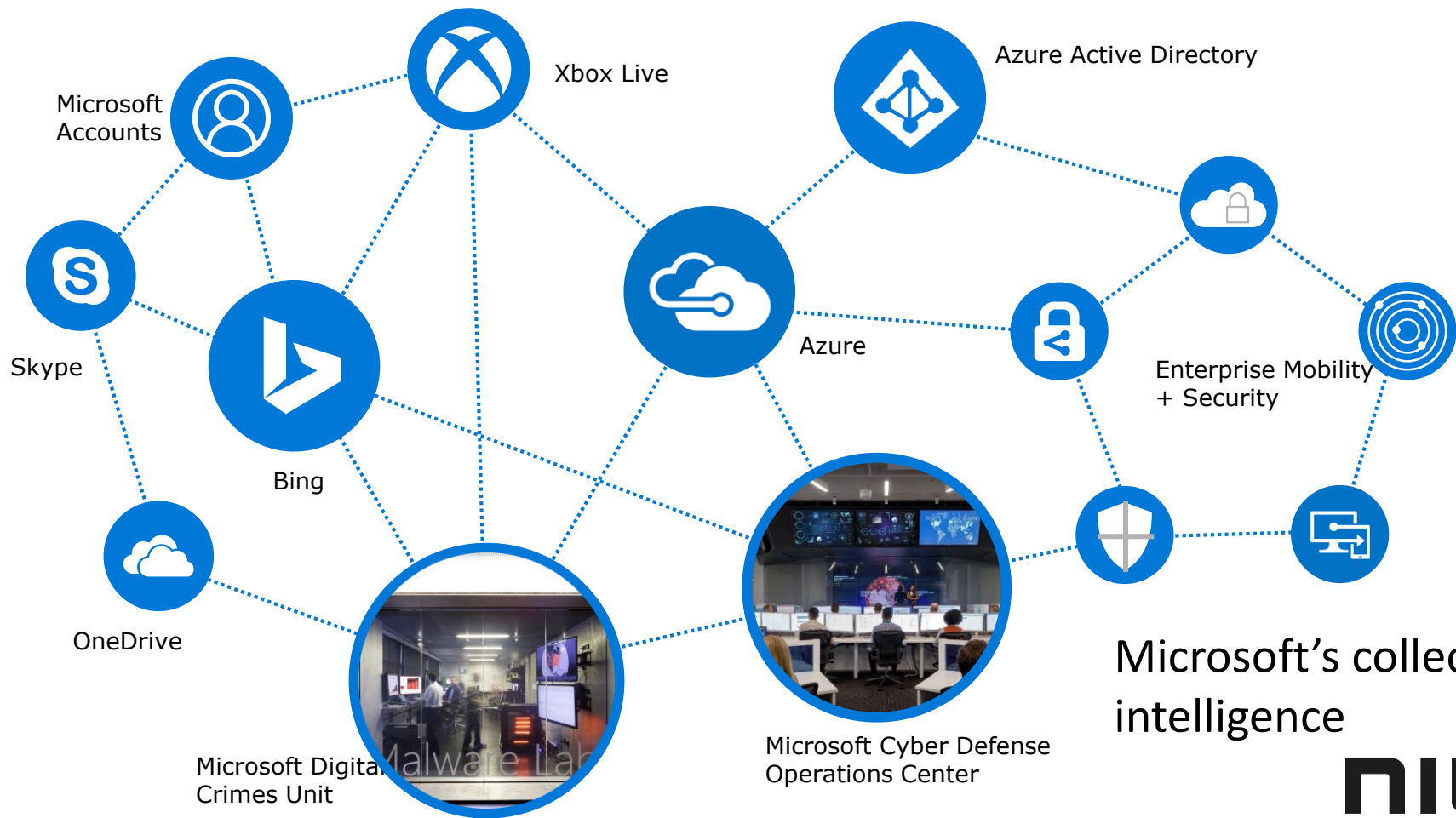
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# Conditional Access = IF

# THEN



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# Demo

- Conditional Access
  - Policies in AAD CA – Global Administrators
  - Policies in AAD CA - Teams
  - Policies in AAD CA - Enterprise Apps
  - Policies in AAD CA - Internal website (Azure App proxy EA)
  - Policies in AAD CA - Teams

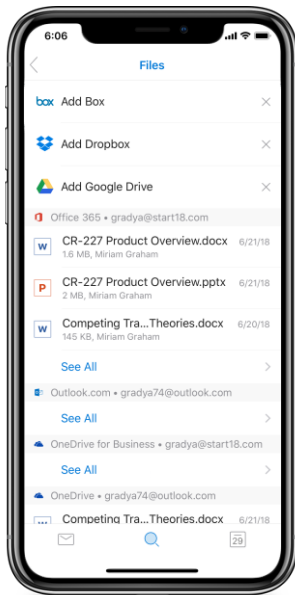


# Why Outlook mobile versus built-in apps



## Security

Modern authentication, App Protection, Conditional Access



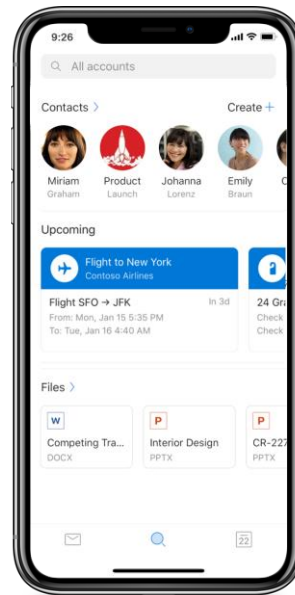
## Office 365 Integration

Word, Excel, PowerPoint  
OneDrive and Skype for Business



## Organize on the go

Scheduling Free/Busy  
Time to leave reminders



## Intelligence

People, org view, LinkedIn  
Travel summary cards

# Why Block Legacy Authentication?

- 350K compromised accounts in April 2018 due to password spray, 200K in the last month.
- Nearly 100% of password spray attacks we see are from legacy authentication
- Blocking legacy authentication reduces compromise rate by 66%
- <https://aka.ms>PasswordSprayBestPractices>

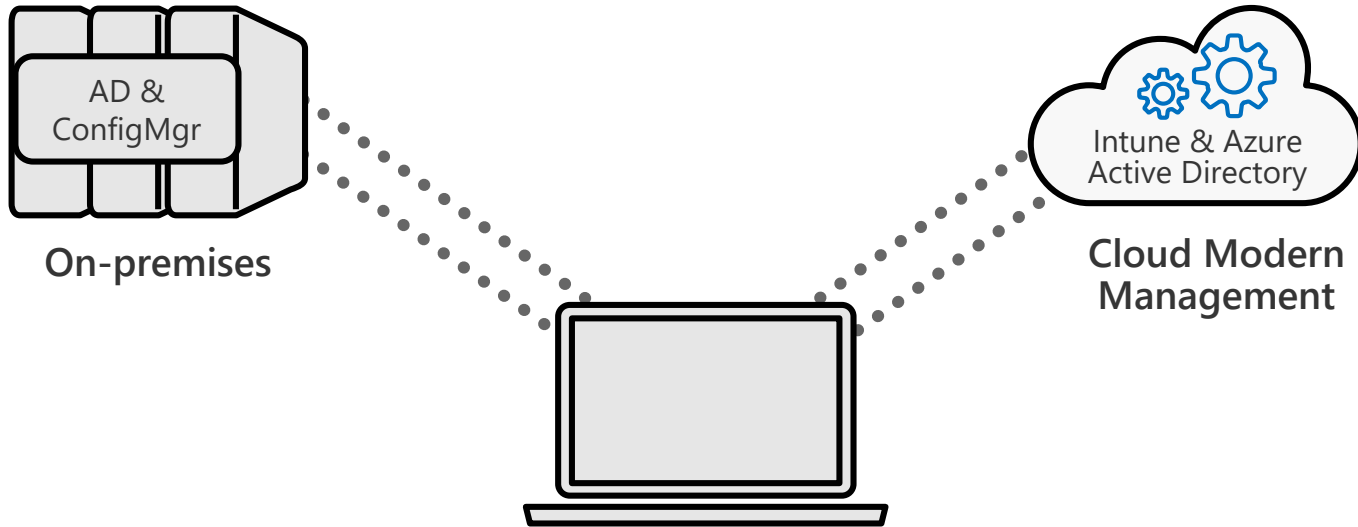
# Why should I care about Disabling Legacy Auth?

- Did you not see the previous slide? 😊
- CA is designed based on controlling token issuance in modern auth (plus EAS legacy authentication)
- CA also relies on device authentication for device compliance controls.
- Legacy authentication doesn't support device authentication, thus breaking CA.

# Demo

- Conditional Access
  - Policies in AAD CA - Force Outlook Mobile
  - Policies in AAD CA - Force Outlook Mobile EAS
  - Policies in AAD CA - Outlook Block Basic Auth

# Co-Management



# Demo

- Co-Management and Conditional Access
  - Compliance Workload
  - Intune Compliance policies
  - CA Device compliance
    - Teams in Windows (and let's do iOS as well 😊)

Slides and demos from the conference will be available at

<https://github.com/nordicinfrastructureconference/2019>



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