

# Konferens: Ignite 2016 Atlanta, USA

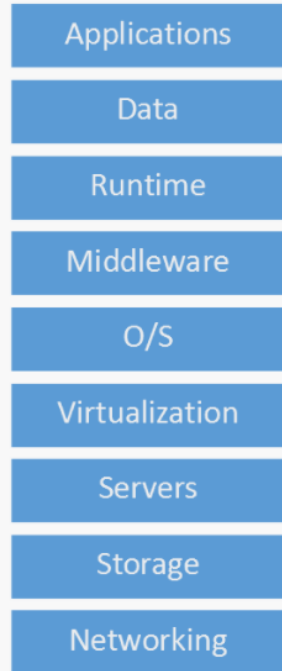
Leif Lagebrand  
2016-10-05

# Cloud first, mobile first

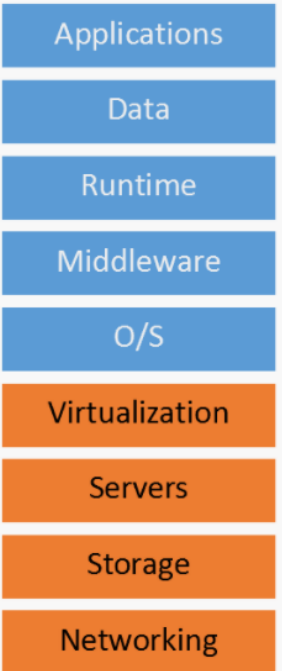
- Inga stora nyheter, det mesta känt sedan tidigare. Man kan se konferensen som en sammanfattning av det senaste årets händelser
- Officiellt: Windows Server 2016 och System Center 2016. Mer senare om det
- Microsofts molndel, Azure, växer med mer än 100% per år och de kan inte se någon avmattning

# Cloud Services

## On Premises



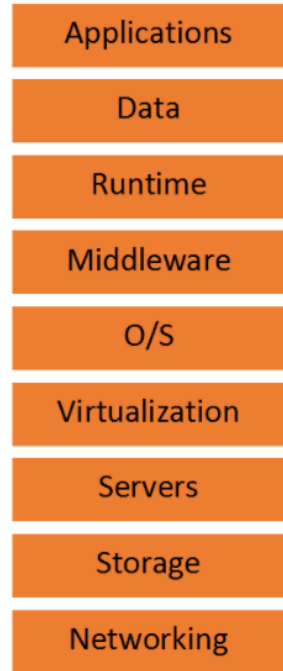
## Infrastructure (as a Service)



## Platform (as a Service)



## Software (as a Service)

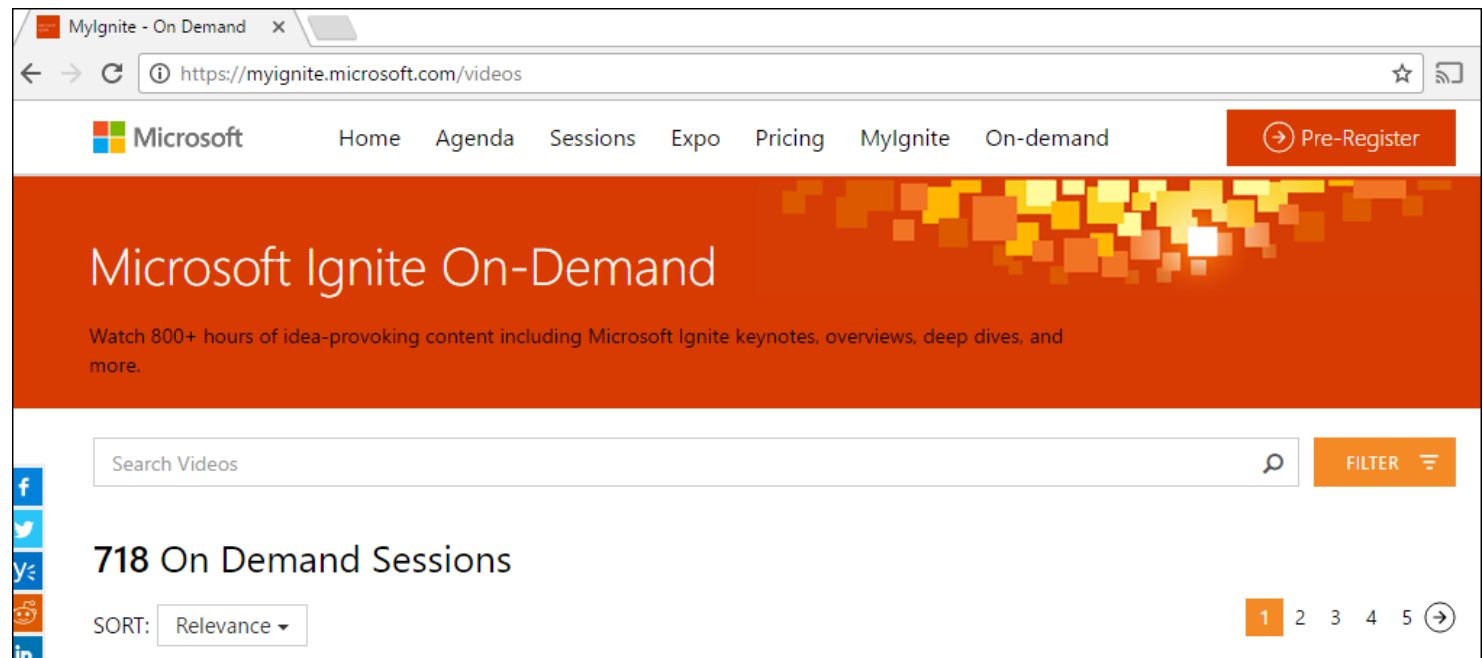


You Manage

Vendor Manages

# Information från Ignite 2016

- Konferensens hemsida <https://myignite.microsoft.com>
- Alla videor <https://myignite.microsoft.com/videos>
- Eller här <https://techcommunity.microsoft.com/t5/Microsoft-Ignite-Content/bd-p/MicrosoftIgniteContent>
- Youtube, [https://www.youtube.com/channel/UCrhJmfAGQ5K81XQ8\\_od1iTg](https://www.youtube.com/channel/UCrhJmfAGQ5K81XQ8_od1iTg)
- Kanske kommer några på Channel 9  
<https://channel9.msdn.com/>



The screenshot shows a web browser window with the URL <https://myignite.microsoft.com/videos>. The page features a navigation menu with links for Home, Agenda, Sessions, Expo, Pricing, MyIgnite, and On-demand, along with a Pre-Register button. The main heading is "Microsoft Ignite On-Demand" with a subtext: "Watch 800+ hours of idea-provoking content including Microsoft Ignite keynotes, overviews, deep dives, and more." Below this is a search bar labeled "Search Videos" and a "FILTER" button. The page displays "718 On Demand Sessions" and a "SORT: Relevance" dropdown menu. A pagination control shows "1 2 3 4 5" with a right arrow.

# Finns ditt arbete kvar i framtiden?

- Foxconn ersätter 60 000 arbetare med robotar  
<http://www.bbc.com/news/technology-36376966>
- Om 20 år har 50% av alla nutida jobb försvunnit  
<http://stratresearch.se/wp-content/uploads/varannat-jobb-automatiseras.pdf>
- Uber behöver ingen taxicentral/växel

# Keynote – Satay Nadella, VD Microsoft

<https://youtu.be/fLdJKcMLCbs>

- Artificiell Intelligens, Machine Learning, Cortana
- [Delve Analytics](#) i O365- analyserar vad jag gör under en dag vilka jag epostar eller skypar med och jag får en sammanställning på det
- Dynamics CRM 365 – letar på Internet och t ex LinkedIn efter händelser kring dina kunder <http://crmroadmap.dynamics.com/>
- Cortana Intelligence Suite <https://www.microsoft.com/sv-se/server-cloud/cortana-intelligence-suite/overview.aspx>
- Microsoft Graph, Web Graph, Bots (röstrobotar t ex) <https://support.microsoft.com/sv-se>
- Allt finns ett API bort, hos Microsoft i Azure.
- Uber låter sina förare titta i mobilkameran för att identifiera dem när de ska köra, har de glasöon på ser Cortana Cognitive Services det och ber dem ta av dem.

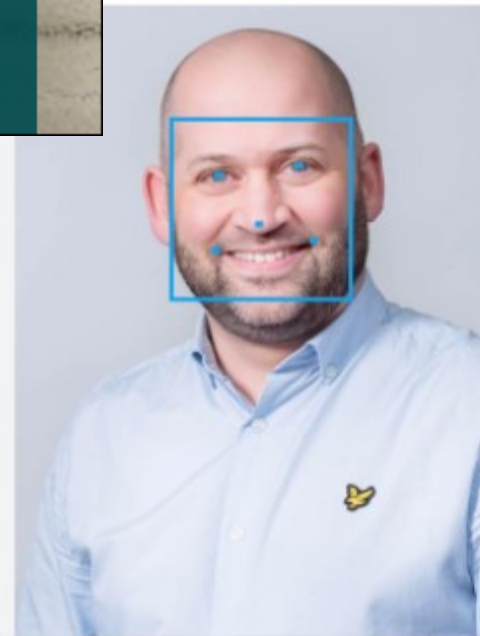
# Microsoft Graph – One endpoint to rule them all



## Cognitive Services APIs

Tap into the power of machine learning with easy-to-use REST APIs.

Get started for free



```
    "underLipBottom": {  
      "x": 807.6,  
      "y": 888.9  
    },  
  },  
  "faceAttributes": {  
    "age": 39.7,  
    "gender": "male",  
    "headPose": {  
      "roll": -4.4,  
      "yaw": -4.3,  
      "pitch": 0  
    },  
    "smile": 1,  
    "facialHair": {  
      "moustache": 0.5,  
      "beard": 0.9,  
      "sideburns": 0.4  
    },  
    "glasses": "NoGlasses"  
  }  
}
```

Image URL





# Satay Nadella ...

- Volvo – kameror läser av din status – är det säkert att åka med dig?  
Kamera vid solskyddet ser ansiktsuttryck – ljud osv eller om du tar upp och svarar i mobilen.
- Köp i varuhus med Hololens, 3D och bilder/video. Butiken kan se kundernas mönster eller kanske redan från början föreslå – köksutrustning med färger och annat
- Microsoft har byggt ut sina datacenter (34 regioner) med GPU och nu FPGA, FPGA för att snabba upp AI t ex bildigenkänning ( 8 ggr).  
Översätta hela wikipedia tar en tiondels sekund

# Scott Guthrie – executive vice president-kenynote <https://youtu.be/hmJqNq7URxU>

- Adobe lägger alla sina tjänster och servrar i Azure
- Datacenter i 34 regioner (minst två på varje ställe), Irland, Nederländerna, Tyskland, England, Finland, Österrike och Frankrike under 2017.
- Azure växer mer än 100% per år och Microsoft ser ingen avmattning under "förutsägbar tid"
- MS är bäst i 17 av 26 Quadranter enligt Gartner
- Azure Monitor – övervaka Campus och Azure
- Övervaka alla miljoner inloggningar från användare av Azure AD

# Scott Guthrie

- Windows Server 2016, har ärvt flera delar från Azure t ex Nano Server och Network Controller, Hyper-V, bättre säkerhet, Just in time Admin rights, multifaktor, isolerade Hyper-Vs, hybrid cloud, software defined storage. Nano=current branch, övriga uppdateras om 2-3 år
- System Center 2016 – allt har anpassats för Windows Server 2016, SCCM uppdateras hela tiden (current branch) från Azure, övriga komponenter om 2-3 år.
- Xamarin för utveckling av mobil-appar, gratis
- Team Foundation Server, DevOps, continuous development, continuous delivery, containers, build chain, unit tests. Molnet=code repository
- Hololens – 3D glasögon. Används snart överallt

Microsoft Ignite Keynote  
IN THE YEAR 2020

50%

of the US workforce will be millennials

43%

of the US workforce will be freelancers

5 billion

smart, connected devices shipped annually

44 zettabytes

of data in storage



Vad kommer efter Zettabytes?

# Secure Productive Enterprise

 Windows 10

 Office 365

Enterprise  
Mobility + Security

400 million

Monthly Active Devices

70 million

Office 365 commercial  
Monthly Active Users

1 billion

Logins per day protected  
by Azure Active Directory

# Scott Guthrie ...

- Windows 10 – Windows Ink – gula lappar – Matte handskriven till formel
- Samtidigt redigerar i dokument
- My Analytics – Delve Analytics – hur många läser min epost?
- Surface Hub – stortavla – inloggning via NFC – Stormview (program)
- Säkerhet – MS Threat Analytics – Windows Device/Credential Guard
- 50% av tiden vid datorn använder man bläddrare
- Windows Defender Application Guard – för Edge – säkerhet kopplad till maskinvaran (som TPM).
- Windows Defender Threat Protection

- Home
- Me
- MyAnalytics
- Favorites

- People**
- Hanna Andersen
  - Lisa Drevet
  - Niclas Andersson
  - Per Östlund
  - Mattias Kieffer
  - Stefan Palm
  - Bettina Berntsen

[Get Delve apps](#)  
[Are my documents safe in Delve?](#)

## MyAnalytics

< 9/25/2016 - 10/1/2016

### Your time

Your stats are based on your email and calendar [Learn more](#)

[Time settings](#)

<p><b>Meeting hours</b> </p> <p><b>0</b> hours</p> <p>Goal &lt; 10 hours</p> <p><a href="#">Edit goal</a></p>	<p><b>Email hours</b> </p> <p><b>6.7</b> hours</p> <p>Goal &lt; 10 hours</p> <p><a href="#">Edit goal</a></p>	<p><b>Focus hours</b> </p> <p><b>45</b> hours</p> <p>Goal &gt; 10 hours</p> <p><a href="#">Edit goal</a></p>	<p><b>After hours</b> </p> <p><b>2</b> hours</p> <p>Goal &lt; 0 hours</p> <p><a href="#">Edit goal</a></p>
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### Network

### Stay in touch

#### Key contacts

Who you worked with the most, by the numbers


	Total time	Read percent	Response time
Stefan Palm	0.8 hrs	100%	0.2 hours
Niclas Andersson	0.7 hrs	100%	0.2 hours
Nickolaj Andersen	0.3 hrs	100%	-

#### Losing touch

People you may want to catch up with

	Last connected	Actions
Robin Westgaard	Sep 13	
Christian Dommersnes	Sep 13	
Anders Spælling	Aug 30	

Brad Anderson <https://youtu.be/NL9hB1L8LCw>

Secure and manage your digital transformation 

Can you answer “Yes” to these questions?

Do you **know** who is accessing your data?

Can you **grant access** to your data based on risk in real time?

Can you **protect** your data on devices, in the cloud, and in transit?

Can you quickly **find** and **react** to a breach?

Do your users **love** their work experience?



# Conditional Access – villkorad tillgång

- Inom några månader går det att sätta en regel att bara Outlook – appen på iPhone får läsa eposten. Alla andra appar spärras
- Outlook-appen länkar till Skype, Onedrive osv
- Azure AD inloggning kan automatiskt stängas av eller kräva tvåfaktorinloggning eller lösenordsbyte. Sätts via policy
- Azure AD Identity Protection, AAD Security Center, AAD Privileged Identity Management

# Brad Anderson

Secure and manage your digital transformation

## Protect

### What's new...

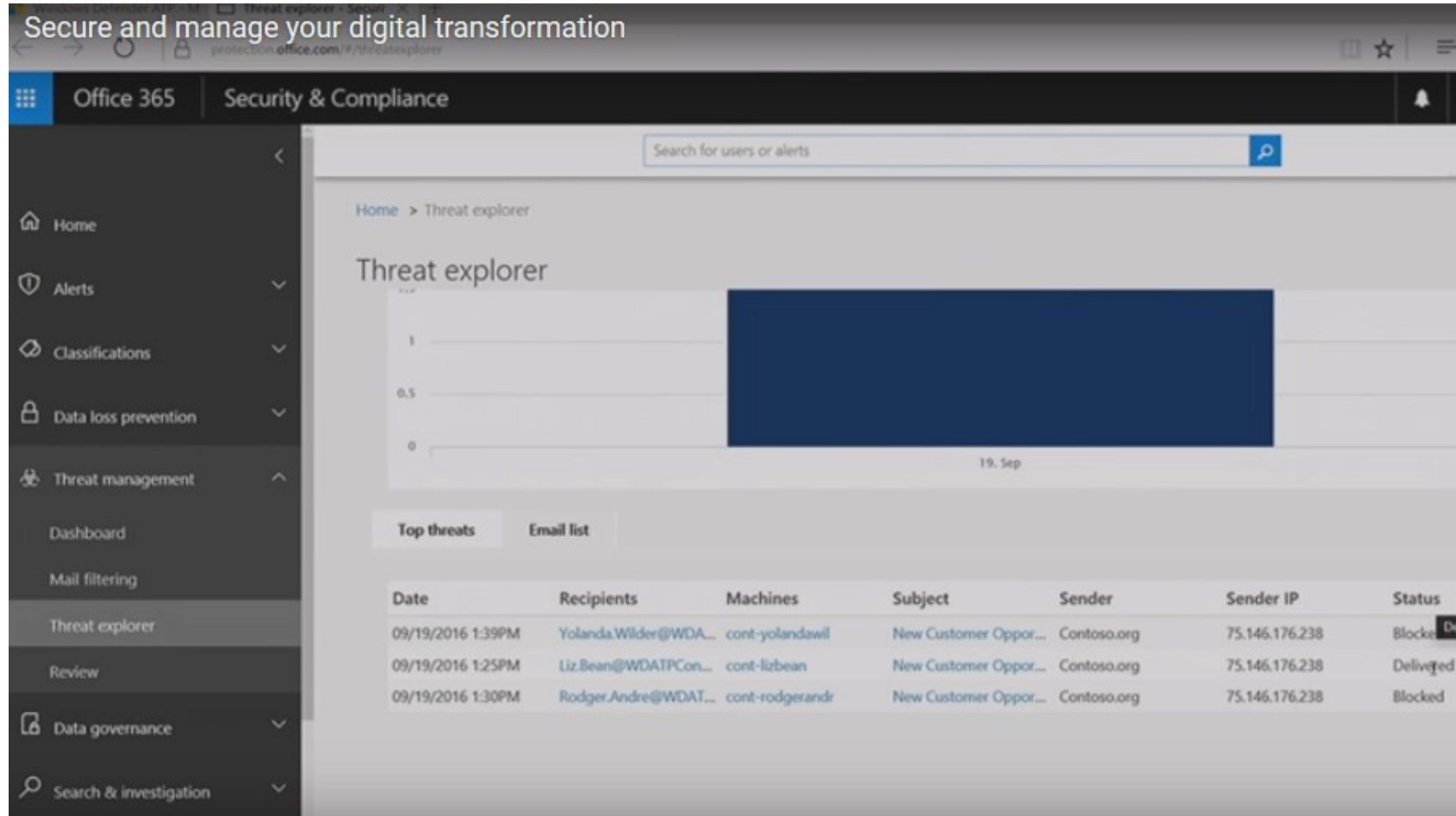
- Azure AD Identity Protection
- Azure AD Privileged Identity Management
- Outlook iOS and Android fully powered by the Microsoft Cloud
- Windows Defender Application Guard
- Enhanced per app conditional access
- Expanded partner ecosystem

# OMS - Operations Management Suite

- Kan övervaka/logga Campus och Azure
- OMS är/blir centralen för analys av data
- Analys av loggar, händelser och mätdata
- Machine Learning, AI, Big Data,
- OMS Solutions (mer än 20 stycken) vissa kan agera utifrån insamlade data. Har egen portal
- Monitor i Azure portal använder vissa data från OMS
- SCOM i System Center skickar loggar upp till OMS.

# Windows Security Center

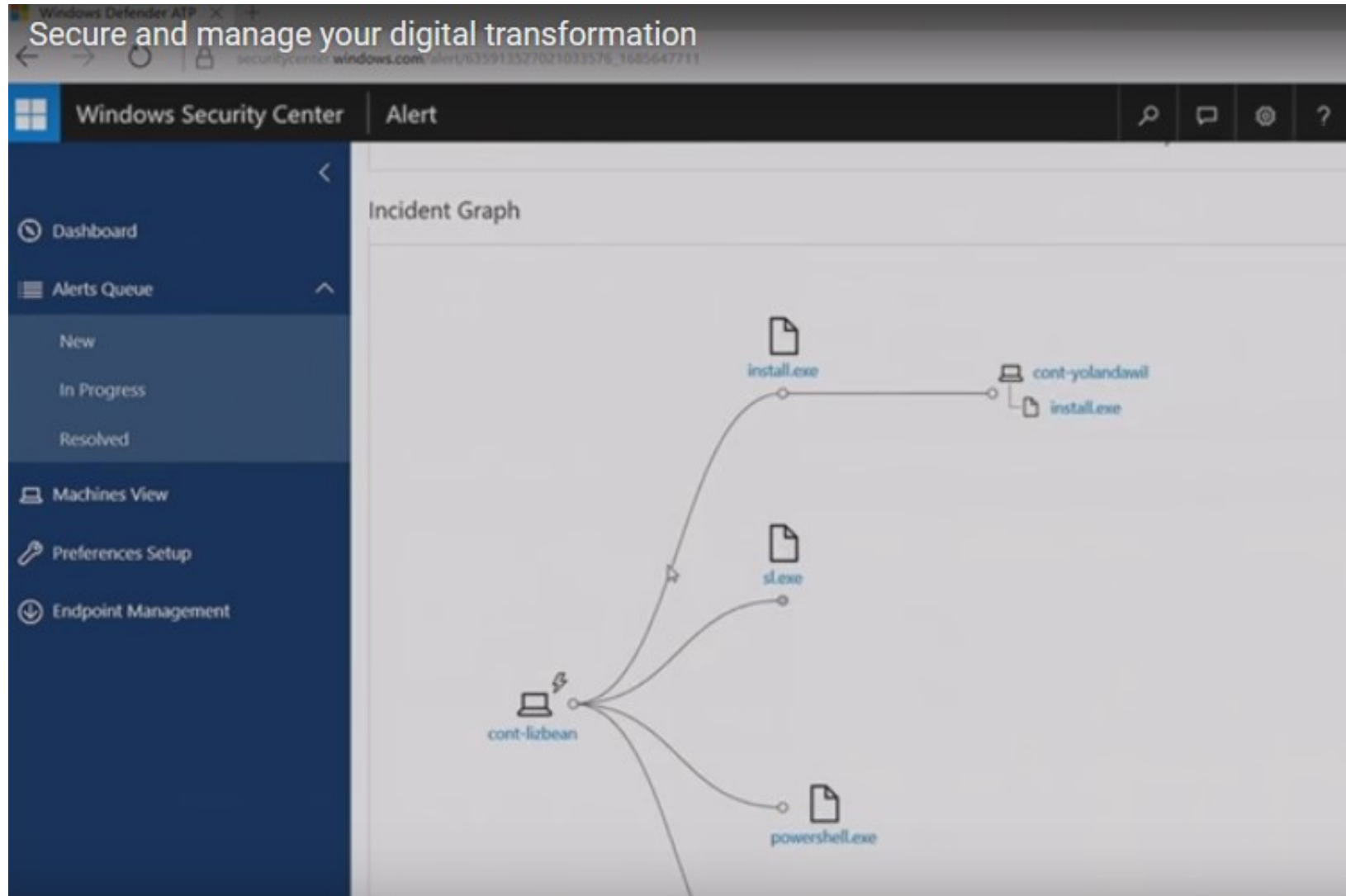
- Kopplar ihop MS egna analyser med Windows 10 Threat Protection, Office365 och Azure. Allt detta tillsammans kan spåra och avslöja intrång och attacker




The screenshot displays the Microsoft Security & Compliance Center interface. The top navigation bar includes "Office 365" and "Security & Compliance". A search bar is present with the text "Search for users or alerts". The main content area is titled "Threat explorer" and shows a graph with a blue bar representing a threat level on a scale from 0 to 1. Below the graph, there are two tabs: "Top threats" and "Email list". The "Email list" tab is active, showing a table of email events.

Date	Recipients	Machines	Subject	Sender	Sender IP	Status
09/19/2016 1:39PM	Yolanda.Wilder@WDA...	cont-yolandawil	New Customer Oppor...	Contoso.org	75.146.176.238	Blocked
09/19/2016 1:25PM	Liz.Bean@WDATPCon...	cont-lizbean	New Customer Oppor...	Contoso.org	75.146.176.238	Delivered
09/19/2016 1:30PM	Rodger.Andre@WDAT...	cont-rodgerandr	New Customer Oppor...	Contoso.org	75.146.176.238	Blocked

# Nytt nästa år, Windows Security Center





 Protect

 Detect

 Respond



**Legacy or Modern Devices**

(Upgraded from Win 7 or 32-bit Windows 8)

Windows Trusted Boot

Microsoft Edge

Windows Defender

Windows Hello

Companion Device Framework

Windows Information Protection

Windows Defender

Advanced Threat Protection

Windows Defender

Application Guard

**Modern Devices**

(Fresh install or upgrade from 64-bit Win 8 )

Virtualization based security

UEFI Secure Boot

Device Guard

Credential Guard

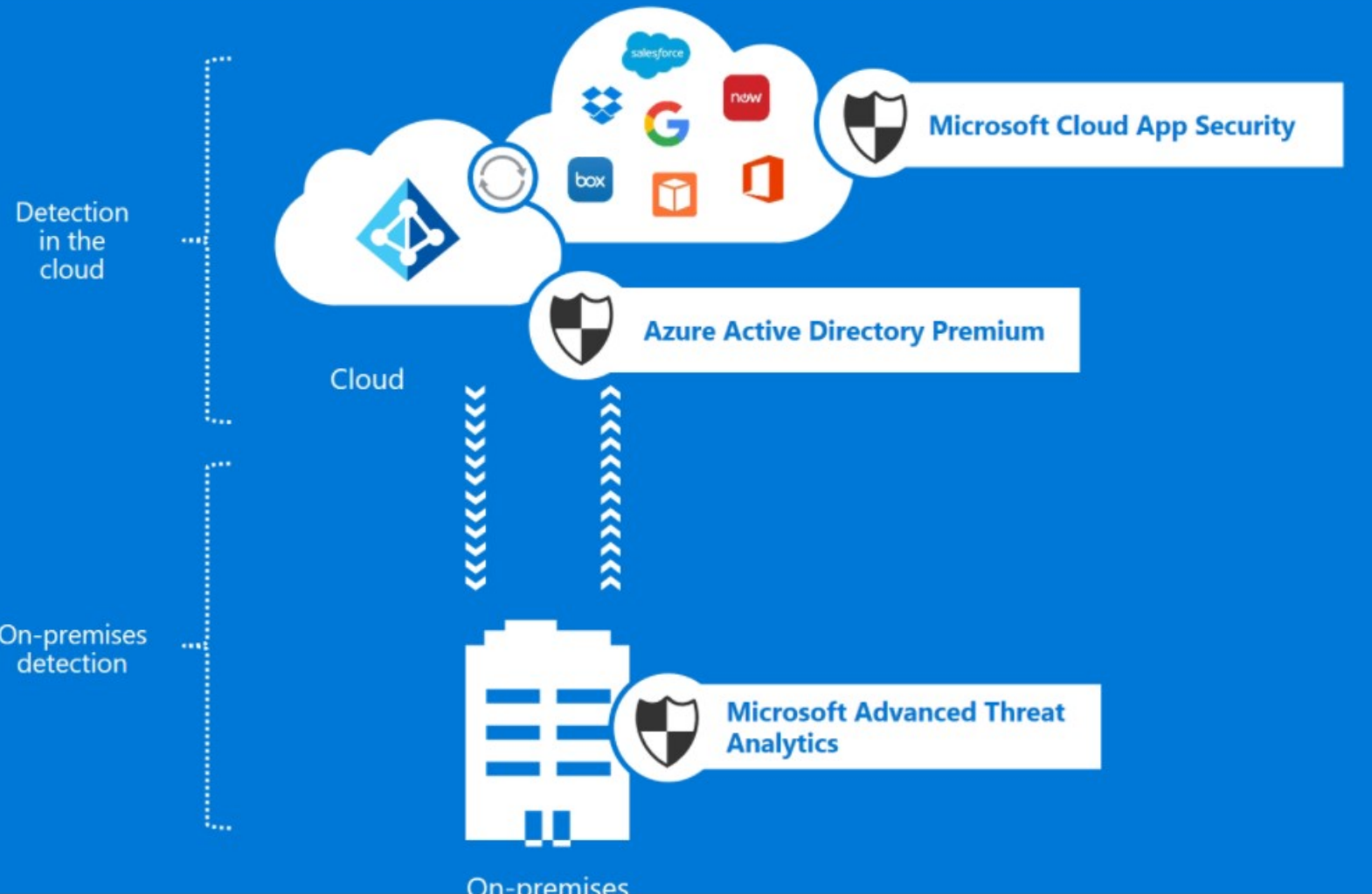
Device Encryption

Security management

Conditional Access

Windows Hello Biometric Sensors

# Detect attacks before they cause damage



How do I detect attacks in the cloud?

## **Cloud App Security** (App level)

- Behavioral analytics
- Anomaly detection

## **Azure Active Directory** (Identity level)

- Behavioral Analytics
- Security reporting and monitoring



How do I detect on-premises attacks?

## **Advanced Threat Analytics**


- User and Entity Behavioral Analytics
- Detection of known malicious attacks and security issues

Secure and manage your digital transformation



## Secure Productive Enterprise

## Secure Infrastructure

 Windows 10

 Office 365

Enterprise  
Mobility+Security

Operations  
Management Suite



Mobile first, Cloud first eller Only?



# Conditional Access



## User attributes

Group membership



## Devices

Domain Joined

compliant

Platform type  
(Windows, iOS, Android)



## Application

Per app policy

Type of client  
(Web, Rich, mobile)



## Location

IP Range



## Risk

Session risk

User risk



ALLOW



ENFORCE MFA



BLOCK



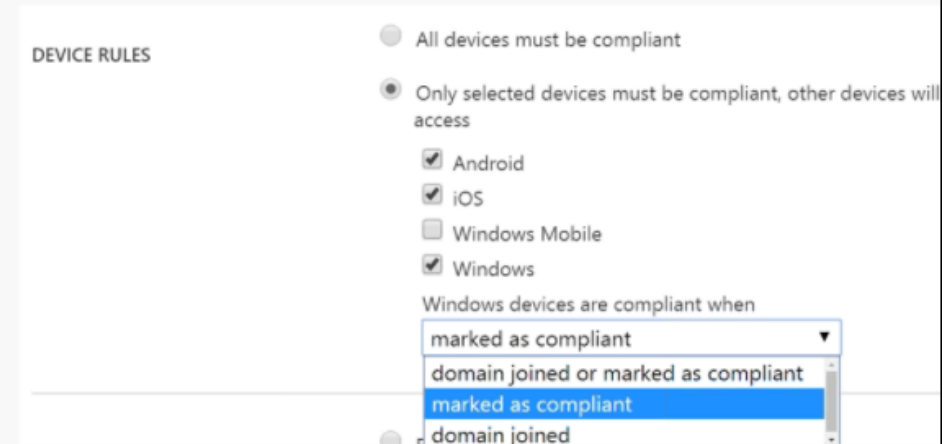
Cloud and  
On-premises  
applications



# Conditional Access for Windows PCs

## Management options for Corp Owned PCs

1. AD domain joined
2. AD domain joined + SCCM management
3. Azure Domain Joined + Intune management

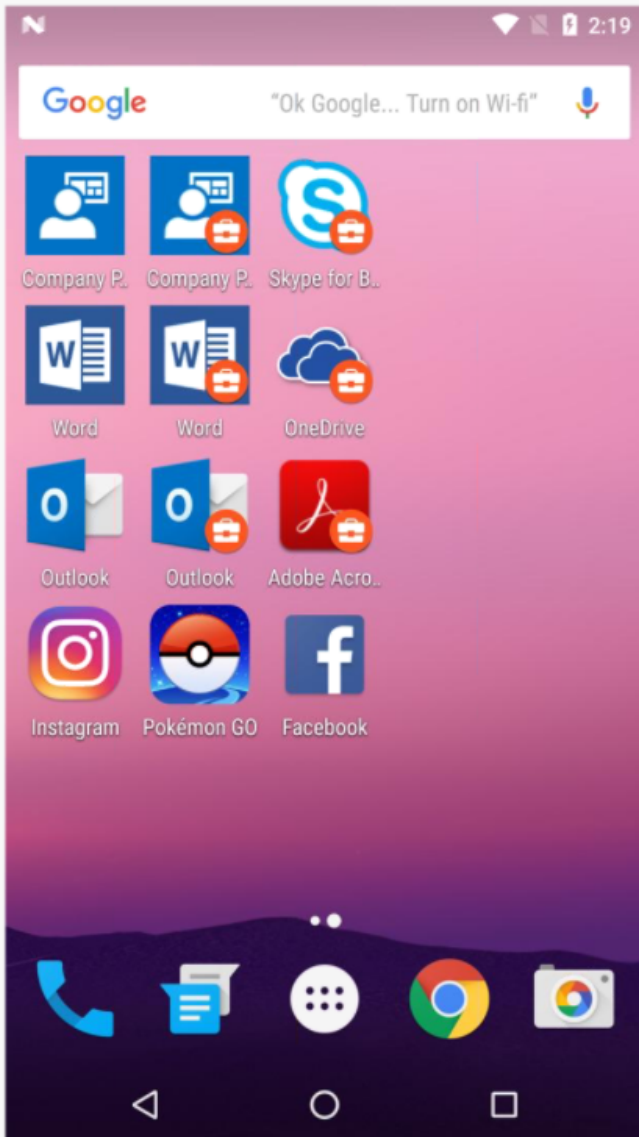


## Management option for BYOD PCs

1. Azure AD registered + Intune management

Management	Windows 7	Windows 8.1	Windows 10
AD domain joined	Supported	Supported	Supported
AD domain joined + SCCM Managed	Supported	Supported	Supported
Azure Domain Joined + Intune managed	Not supported	Not supported	Supported
AAD registered + Intune managed	Not supported	Supported	Supported

# Intune support for Android for Work



## Enhanced device management settings

- Manage a work profile on the device
- Enforce complex PIN policy

## App management improvements

- Unified app install experience for all app types
- Push deploy Play Store apps
- Managed app configuration

## Security improvements

- Installation from unknown sources no longer required
- Mandatory device encryption

## Email client app configuration

- Gmail and Nine Work email apps

## Rolling out starting in October service release

<https://blogs.technet.microsoft.com/enterprisemobility/2016/09/12/microsoft-intune->

# Enterprise Mobility + Security

Identity and access management



Managed mobile productivity



Information protection



Identity-driven security



EMS  
E5

## Azure Active Directory Premium P2

Identity and access management with advanced protection for users and privileged identities

*(includes all capabilities in P1)*

## Azure Information Protection Premium P2

Intelligent classification and protection for files and emails shared inside and outside your organization

*(includes all capabilities in P1)*

## Microsoft Cloud App Security

Enterprise-grade visibility, control, and protection for your cloud applications

EMS  
E3

## Azure Active Directory Premium P1

Secure single sign-on to cloud and on-premises apps  
MFA, conditional access, and advanced security reporting

## Microsoft Intune

Mobile device and app management to protect corporate apps and data on any device

## Azure Information Protection Premium P1

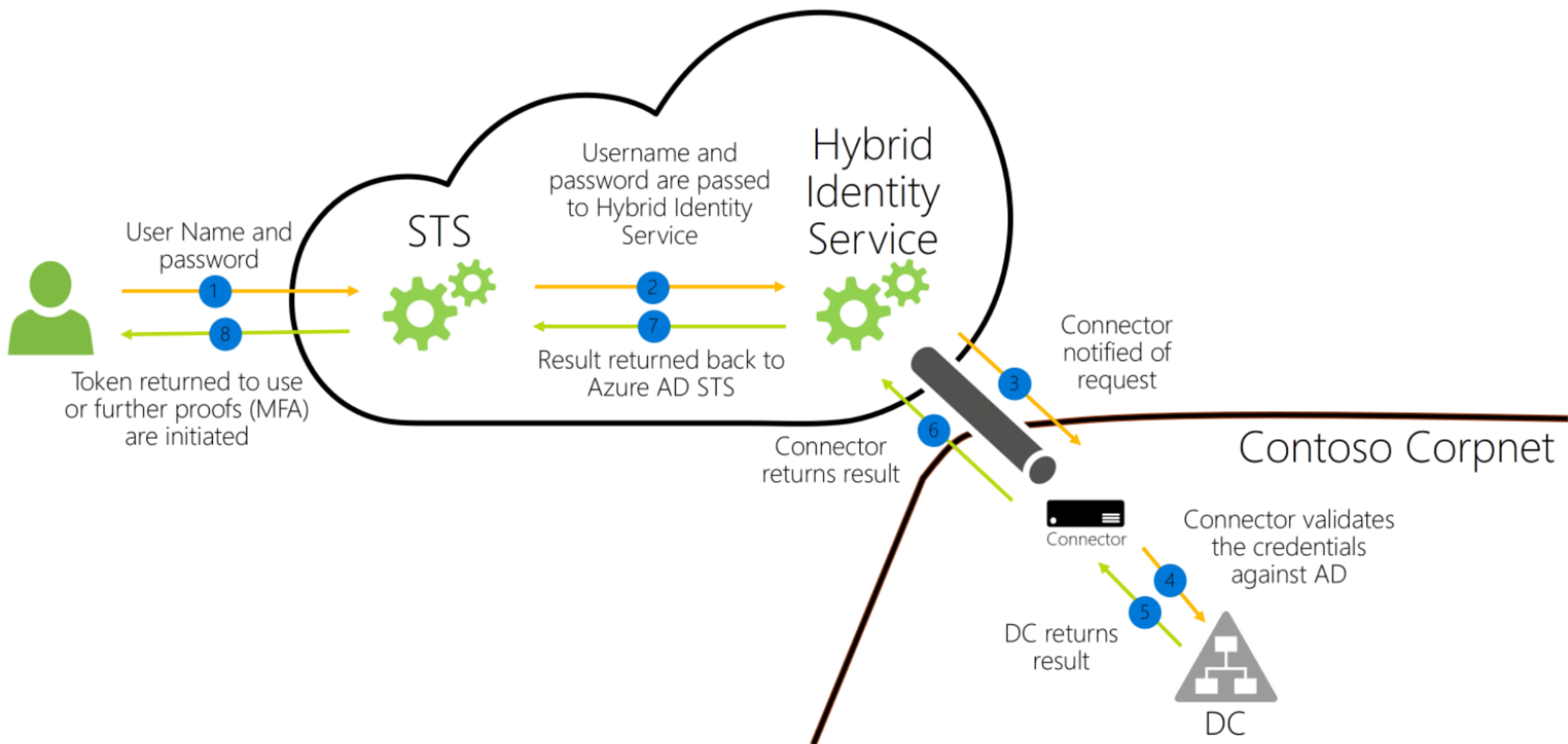
Manual classification and protection for files and emails shared inside and outside your organization

Cloud-based file tracking

## Microsoft Advanced Threat Analytics

Protection from advanced targeted attacks leveraging user and entity behavioral analytics

# To Azure AD PTA – SSO Without ADFS!



Slut