

Enterprise Mobility + Security

Automation + Security for the Digital Workplace

Daniel Dickinson
Digital Workplace Cyber Security Specialist



Assume Breach



Why?

- **Identity** is the new perimeter, 99% of attacks are focused on identity theft
- **Data** loss / leakage
- **Flexible Workforce** computing
Almost any device, anywhere, anytime.

How?

- 16,000 employees
- 8,000 will open an email within 88 secs
 - **800 will open an attachment (5%)**
 - **2,000 will click a link (12%)**
- 4-8 hours to own the AD
- 1 year to detect



Cyber Threat Intelligence

Billions of sensors across consumer, enterprise, and cloud services



250 million users



Malicious Software
Removal Tool

700 million PCs/month
40 billion executions
('05-'14)



Millions of PCs



Millions of consumers
Billions of malware
removals/ year



18+ billion page
scans/month



420 million
active users



Microsoft
Exchange Online

35 billion messages/month

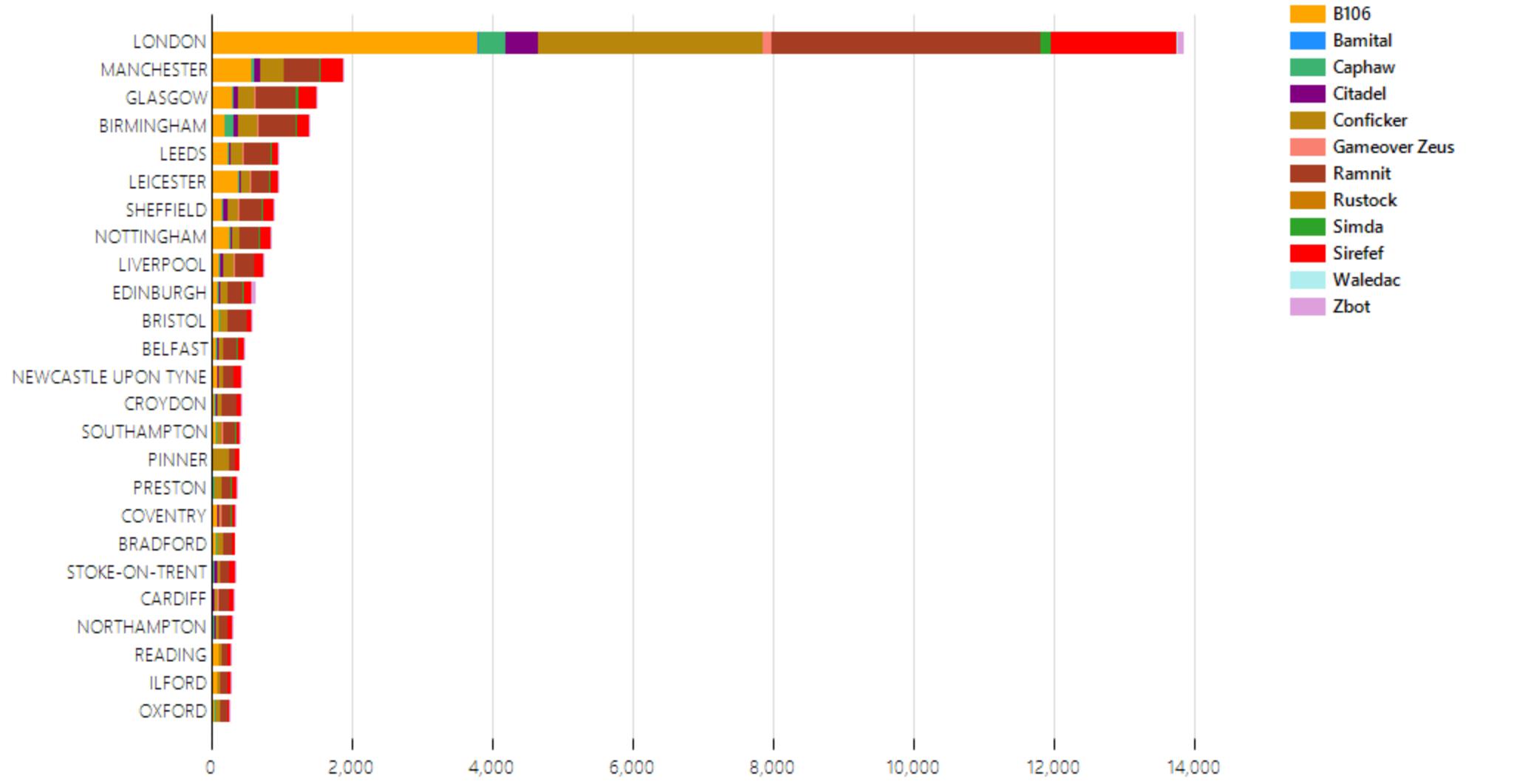


World's largest threat telemetry

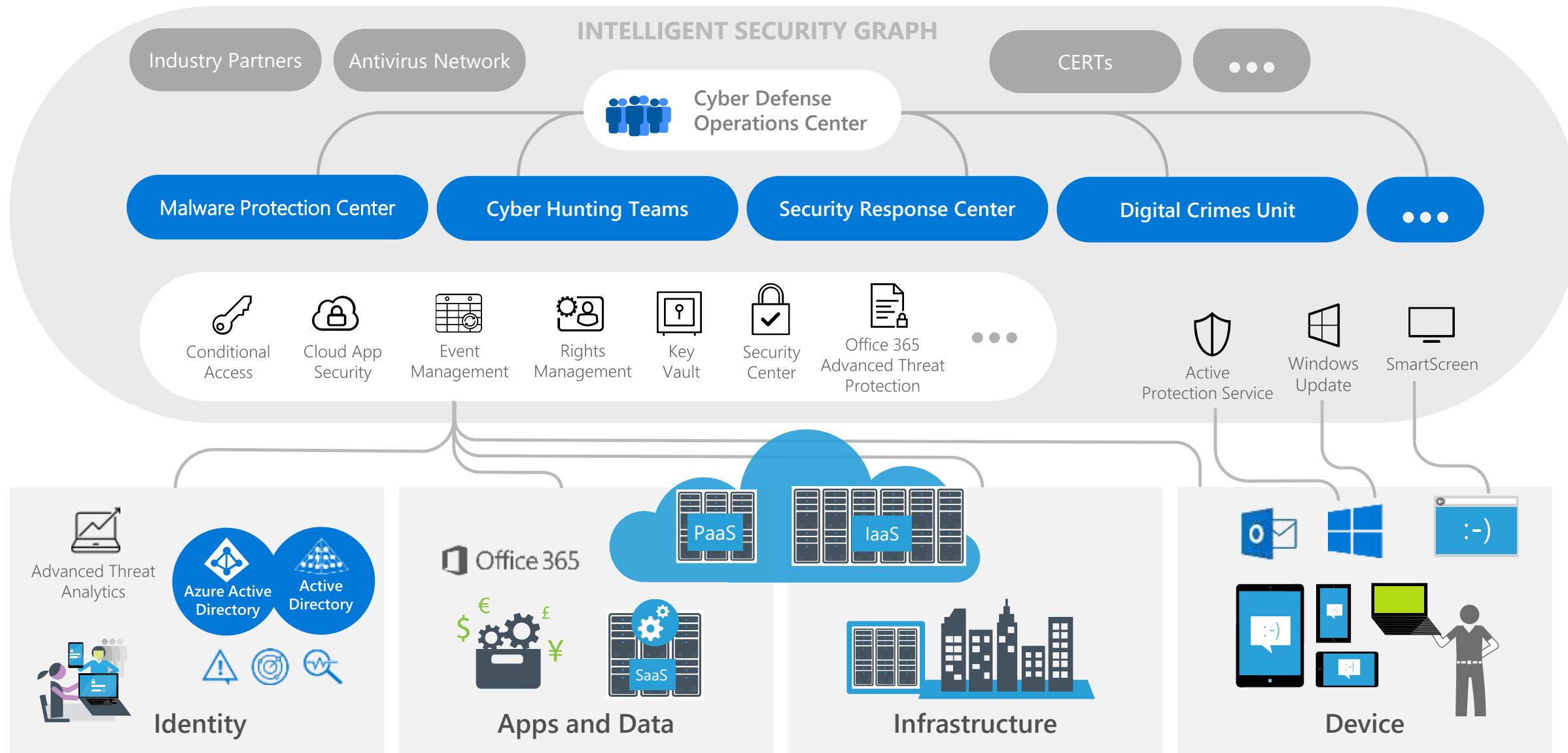


United Kingdom

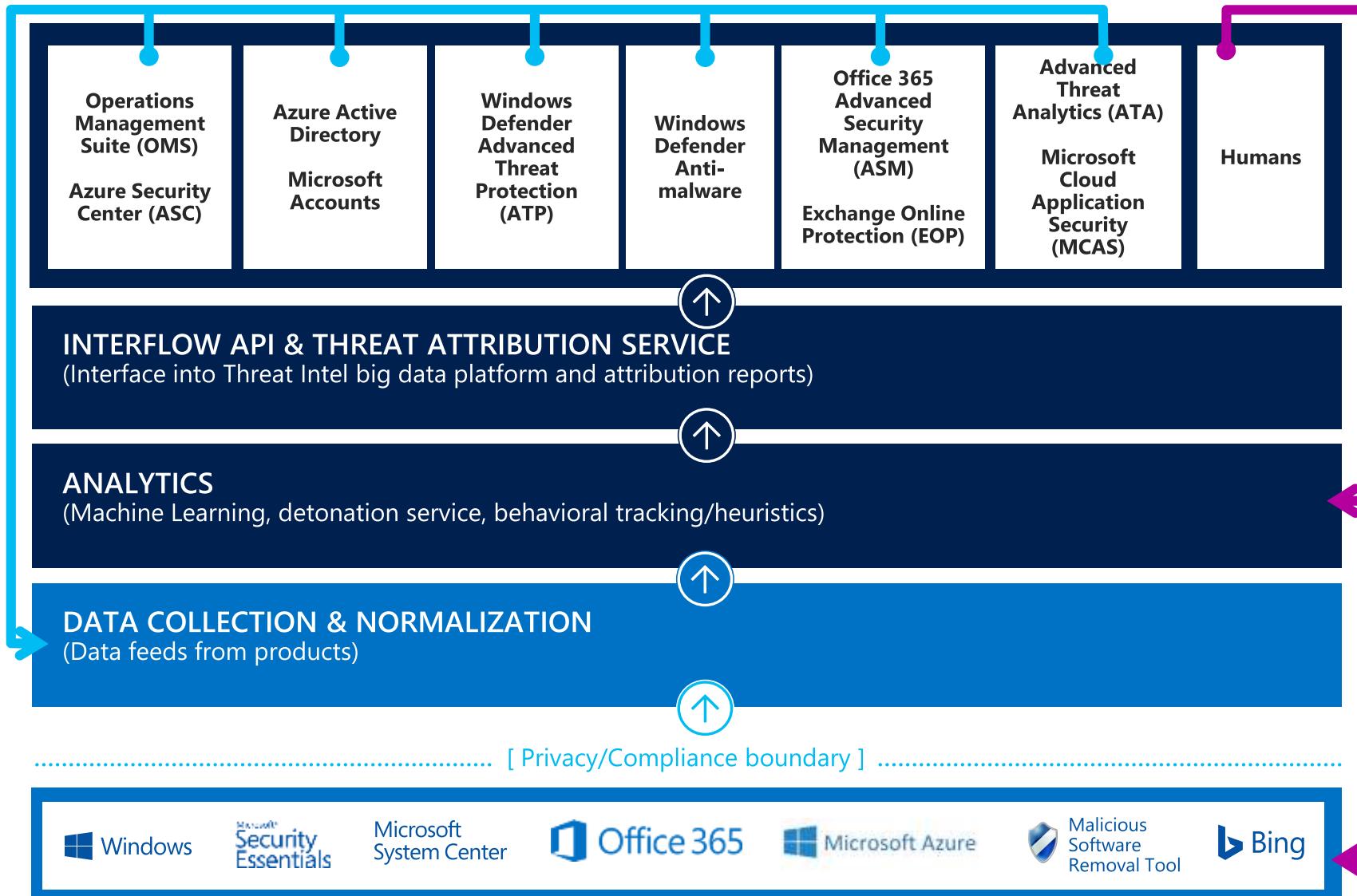
Top 25 Cities by Threat



Microsoft's Security Approach



Inside the Intelligent security graph



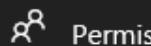
- Hunters identify attacks, and improve analytics
- Products generate their own data which feeds back into the graph
- Products use Interflow APIs to access results
- Analytics surfaces findings to help fuel new discoveries
- Data is processed
- Products send data to graph
- Products instrumented with privacy/compliance in mind

[Home](#) > [Audited controls](#)

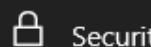
Home



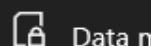
Alerts



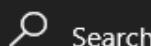
Permissions



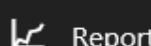
Security policies



Data management



Search & investigation



Reports



Service assurance

Status of Audited Controls

Use this page to understand the status of audited controls from global information security standards and regulations that Office 365 has implemented. Click on the standards and regulations shown below to view the controls and understand how independent third-party auditors have tested them, and what the test results were.

 [Download](#)

<input type="checkbox"/>	Regulation/Standard Name and Description	Last Tested	Controls Tested	Test Results
--------------------------	--	-------------	-----------------	--------------

<input type="checkbox"/>	ISO 27001:2013	28/10/2015	231	No findings
--------------------------	-----------------------	------------	-----	-------------

Office 365 has been accredited to latest ISO 27001:2013 standards. Information under this standard will help you to understand how Office 365 has implemented Information Security Management System (ISMS) to manage and control information security risks. In addition you will gain deep insights into implementation and testing of controls to maintain Confidentiality, Integrity, and availability of your data.

<input type="checkbox"/>	ISO 27018:2014	28/10/2015	51	No findings
--------------------------	-----------------------	------------	----	-------------

In line with Office 365's commitment to maintain strict privacy of your data, Office 365 has been accredited to latest ISO 27018:2014 standards. In this section you will see implementation and testing of controls specific to protection of Personally Identifiable Information (PII) and Privacy.

Dashboard

Compliance reports

Trust documents

Audited controls

Settings

Trust documents provided by Microsoft

Review white papers, FAQs, end-of-year reports, and other trust-related documents provided by Microsoft.

FAQ and White Papers

View answers to Frequently asked Questions and white papers providing you insights into Office 365 Services Security, Privacy, and Compliance.

[Auditing and Reporting in Office 365](#)

[Azure - Financial Services Cloud Security Diagnostic workbook](#)

[Azure 13 Effective Security Controls for ISO 27001 Compliance](#)

[Azure A Practical Guide to Designing Secure Health Solutions using Microsoft Azure](#)

[Azure Active Directory Multi-Tenant Isolation - DRAFT-protected](#)

[Azure Data-Classification-for-Cloud-Readiness](#)

[Azure PCI DSS Responsibility Matrix 2016 - v5-readonly](#)

[CDSA Azure Implementation Guide Final Sept2015](#)

[Data Encryption Technologies in Office 365](#)

[Data Resiliency in Office 365](#)

[Defending Office 365 Against Denial-of-Service Attacks](#)

[ISO 27001_2013 and ISO 27018_2014 Aligned FAQ](#)

[Microsoft Azure HIPAA Implementation Guidance](#)

[Office 365 Customer Security Considerations Preview](#)

[Office 365 Customer Security Considerations Reference Guide_Use with the workbook](#)

[Office 365 Mapping of CSA Cloud Control Matrix 3.0.1](#)

[Office 365 Security Incident Management](#)

[Tenant Isolation in Office 365](#)

Risk Management Reports

View security assessment and risk management reports on how Office 365 Service manages its risks.

[Dynamics CRM Online Security Assessment 2014](#)

[Dynamics CRM Online Security Assessment 2015](#)

[Microsoft Security Policy](#)

[MS O365 Risk Environment](#)

[Office 365 End of Year Security Report 2014](#)

[Office 365 End of Year Security Report and Pen Test Summary for 2015](#)

[Office 365 Risk Management Lifecycle](#)

[Office 365 Security Assessment Summary](#)

Azure Compliance

The largest compliance portfolio in the industry



ISO 27001



SOC 1 Type 2



SOC 2 Type 2



PCI DSS Level 1



Cloud Controls Matrix



ISO 27018



Content Delivery and Security Association



Shared Assessments



FedRAMP JAB P-ATO



HIPAA / HITECH



FIPS 140-2



21 CFR Part 11



FERPA



DISA Level 2



CJIS



IRS 1075



ITAR-ready



Section 508 VPAT



European Union Model Clauses



EU Safe Harbor



United Kingdom G-Cloud



China Multi Layer Protection Scheme



China GB 18030



China CCCPPF



Singapore MTCS Level 3



Australian Signals Directorate



New Zealand GCIO



Japan Financial Services



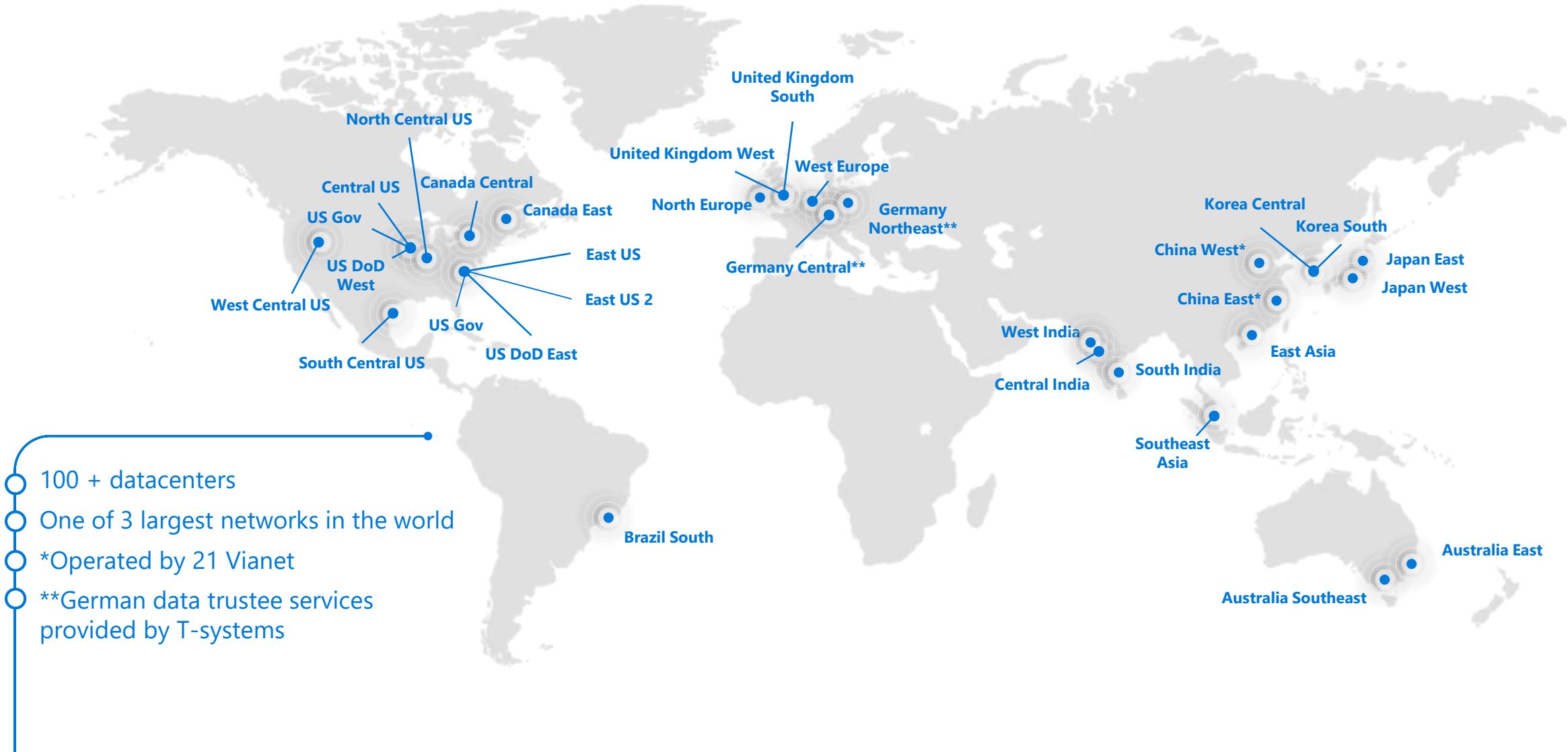
ENISA IAF

Scale

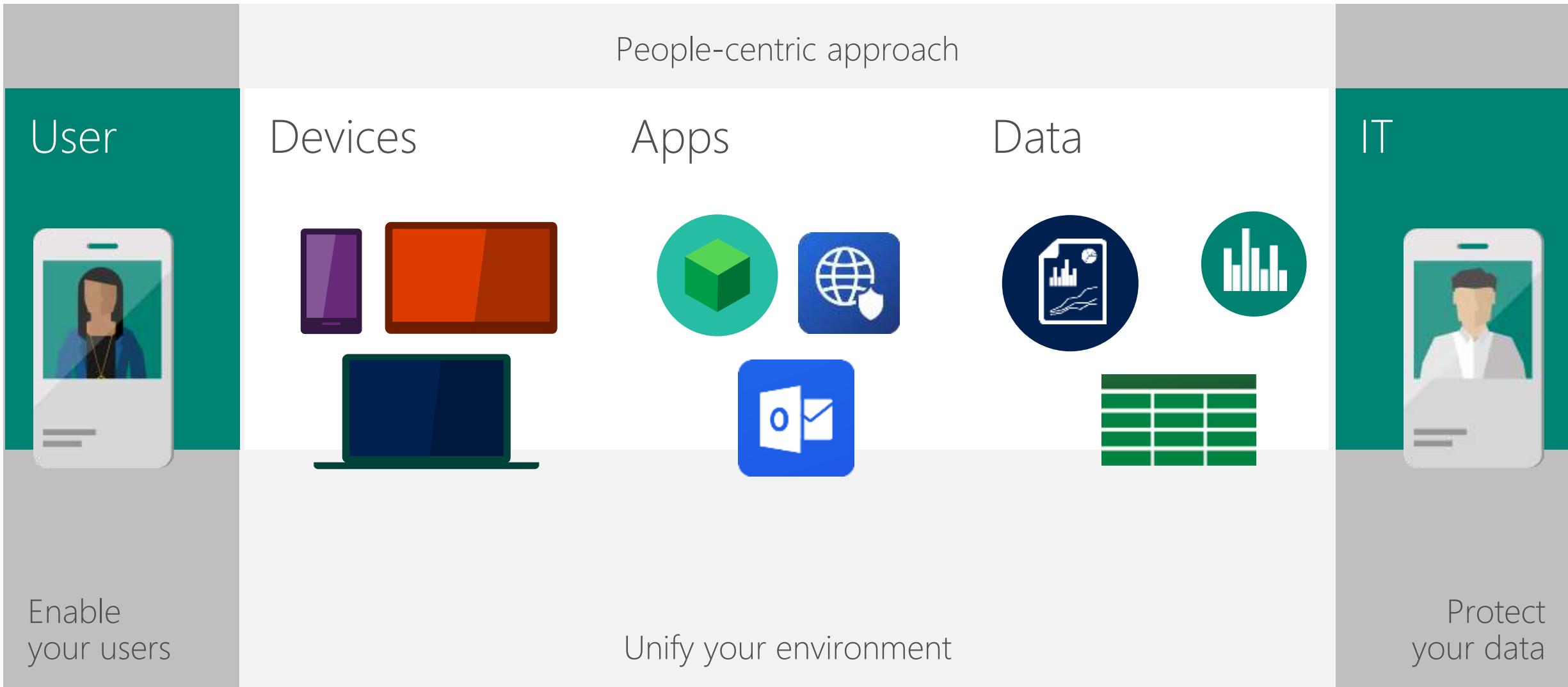
- Azure AD Authentications?
- 15,000 authentications
 - Per Day?
 - Per Hour?
 - Per Minute?
- 34 data centres – inc. UK South and UK West

Global opportunity with Azure infrastructure

34 Azure regions worldwide

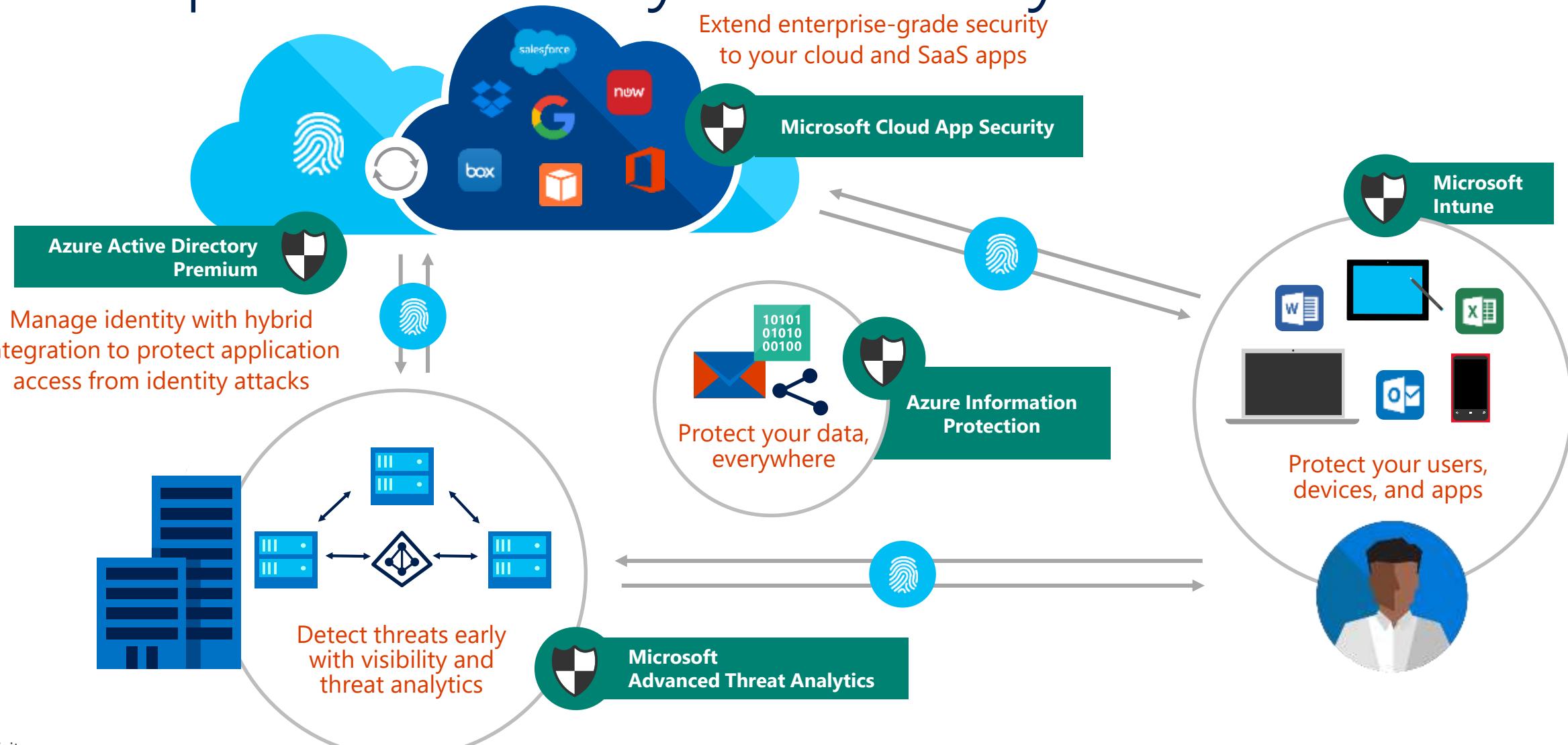


Empowering enterprise mobility



A HOLISTIC SOLUTION

Enterprise Mobility + Security



Enterprise Mobility + Security



Identity and access management



Managed Mobile Productivity



Information Protection



Identity Driven Security

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

Encryption for all files and storage locations. Cloud based file tracking

Microsoft Advanced Threat Analytics

Protection from advanced targeted attacks leveraging user and entity behavioral analytics

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

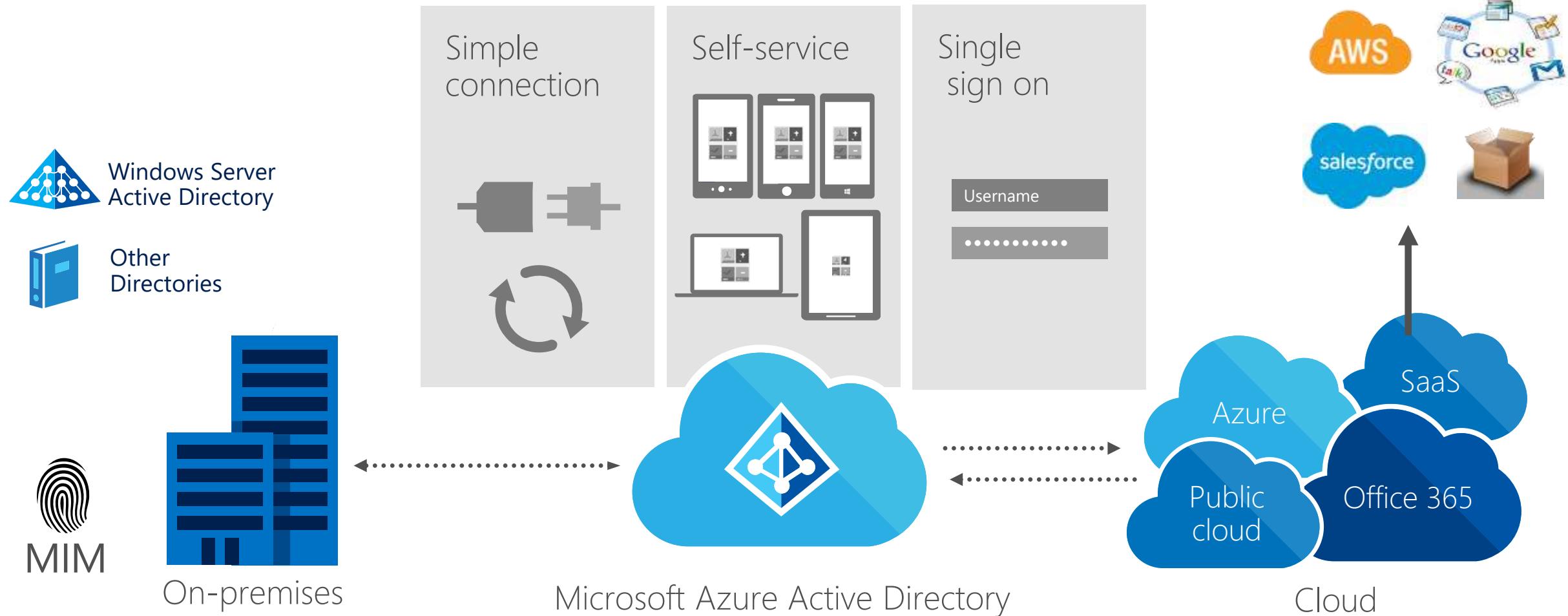
Intelligent classification, & encryption for files shared inside & outside your organization
(includes all capabilities in P1)

Microsoft Cloud App Security

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

Integrated Identity as the control plane

One common identity





The screenshot shows the Ashley Madison homepage. At the top left is the logo "ASHLEY MADISON®" with the tagline "Life is short. Have an affair.®". Below it is a dropdown menu labeled "Please Select" and a pink button labeled "See Your Matches ». Over 43,095,000 anonymous members! In the center is a large photograph of a woman with her finger to her lips, suggesting discretion. At the bottom left is a badge stating "100% Like-minded People". To the right of the badge is the text "As seen on: BBC News, Reuters, The Sun, The Telegraph, The Times". At the bottom center are three icons: a lock for "Affairs Guaranteed", a padlock for "SSL Secure Site", and a checkmark for "Secure Site".



Hilton
HOTELS & RESORTS



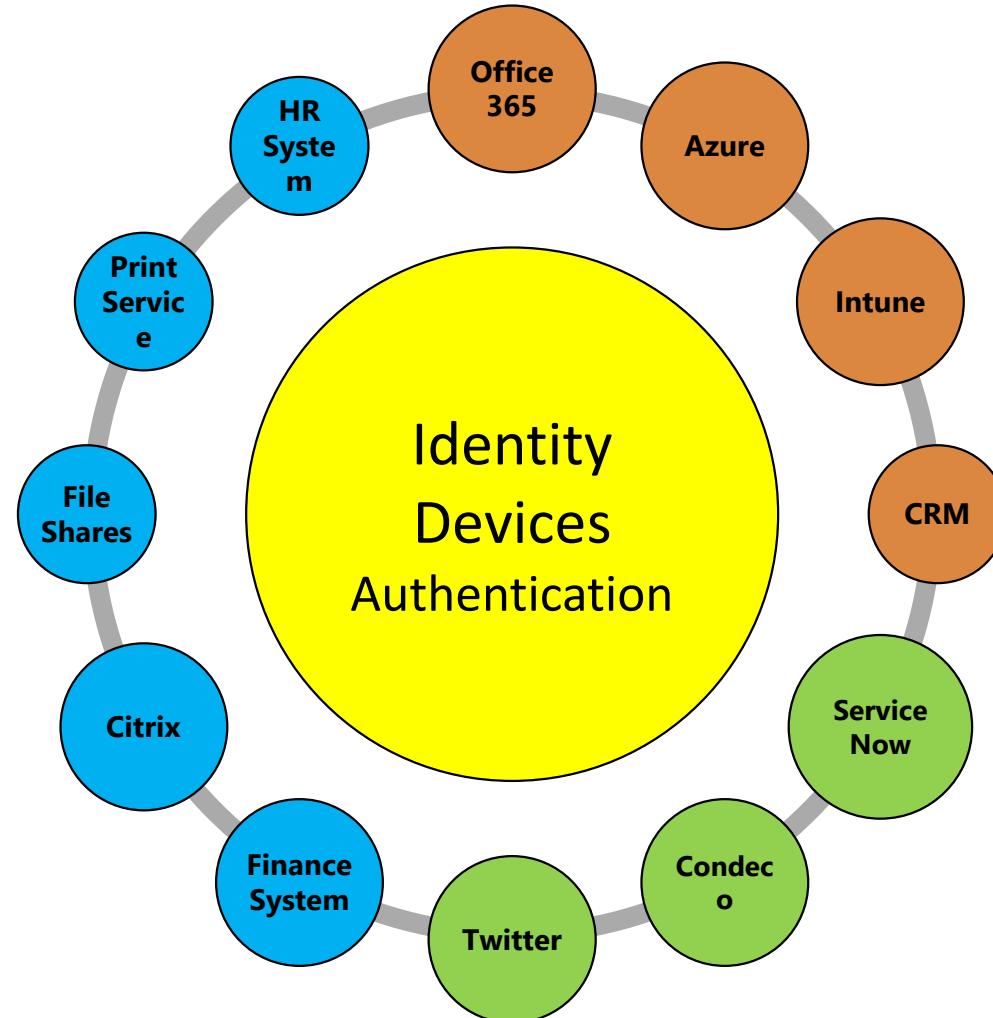
Mini Exercise

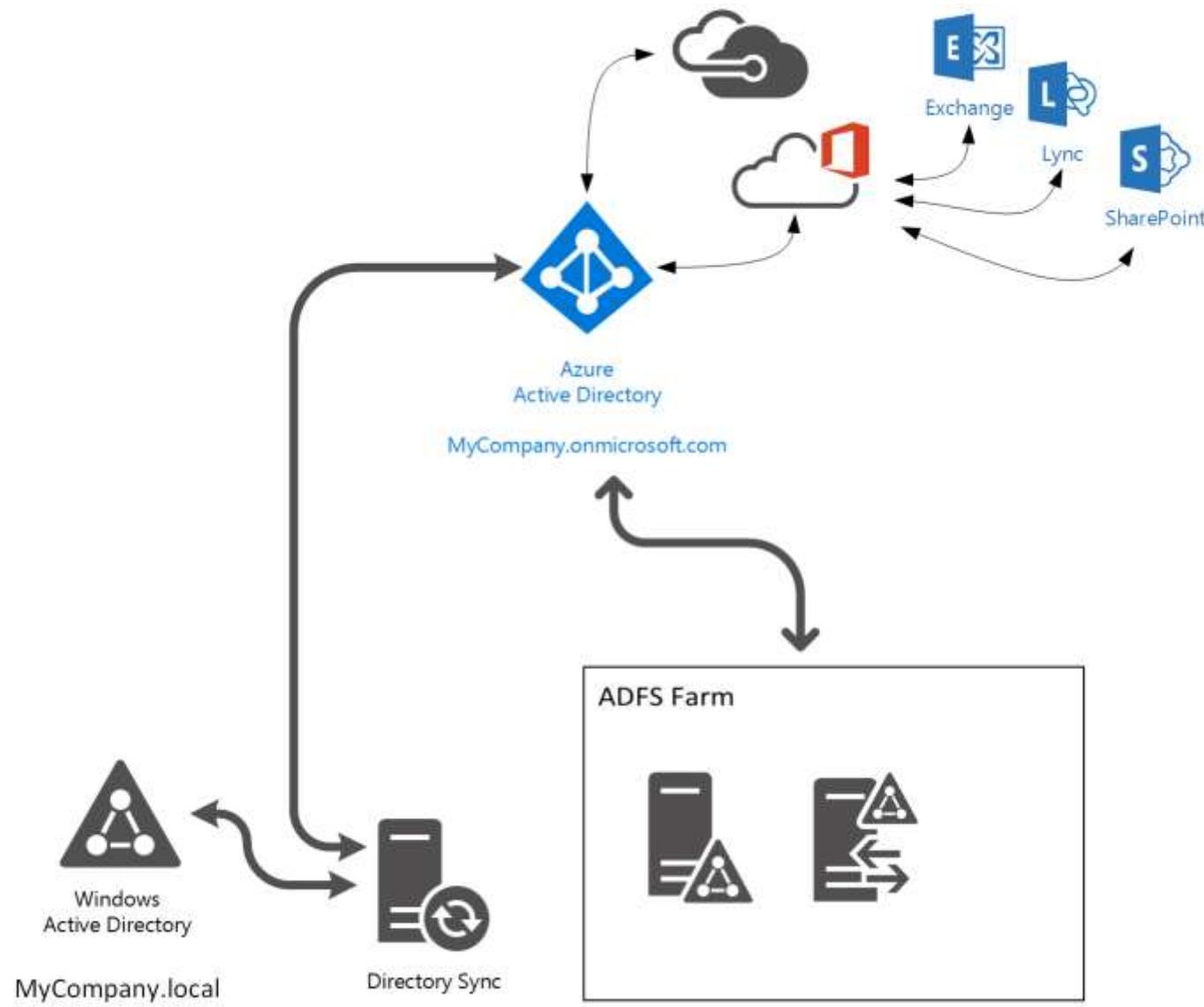
The screenshot shows a web browser window with the URL haveibeenpwned.com. The page has a dark blue header with navigation links: Home, Notify me, Domain search, Who's been pwned, Pastes, API, About, and Donate. Below the header is a large white button with the text "'--have i been pwned?'". Underneath it, a subtext reads "Check if you have an account that has been compromised in a data breach". A search bar contains the placeholder "email address or username". To the right of the search bar is a blue button labeled "pwned?". Below the search area, there are four statistics: "112 pwned websites", "1,070,622,134 pwned accounts", "37,134 pastes", and "28,946,697 paste accounts". At the bottom, a section titled "Top 10 breaches" lists the following data:

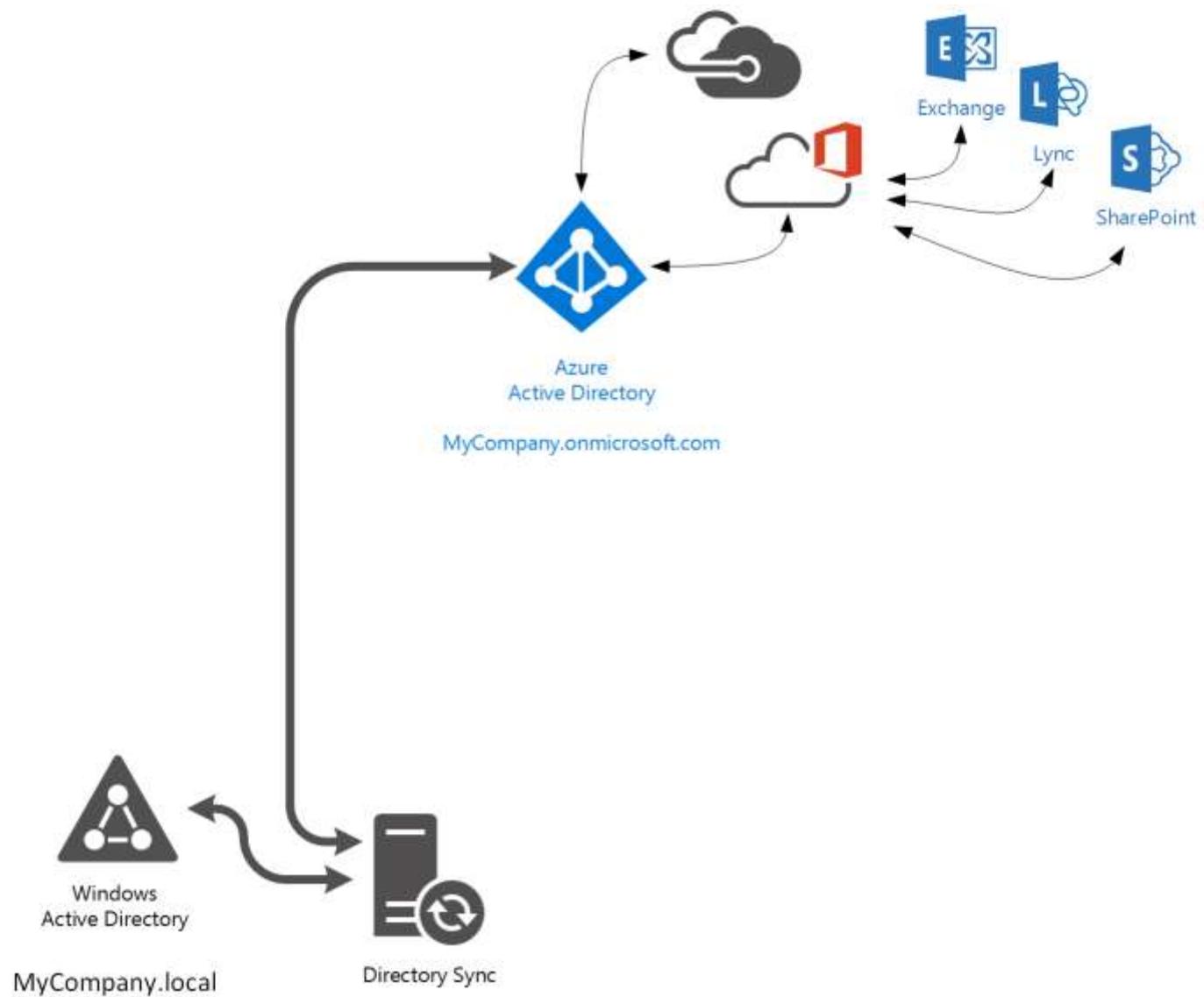
Breach	Count	Description
myspace	359,420,698	MySpace accounts
in	164,611,595	LinkedIn accounts
A	152,445,165	Adobe accounts
VK	93,338,602	VK accounts
tumblr.	65,469,298	tumblr accounts
Fling	40,767,652	Fling accounts
globe	30,811,934	Ashley Madison accounts
mate1	27,393,015	Mate1.com accounts
000webhost	13,545,468	000webhost accounts
R2Games	13,186,088	R2Games accounts

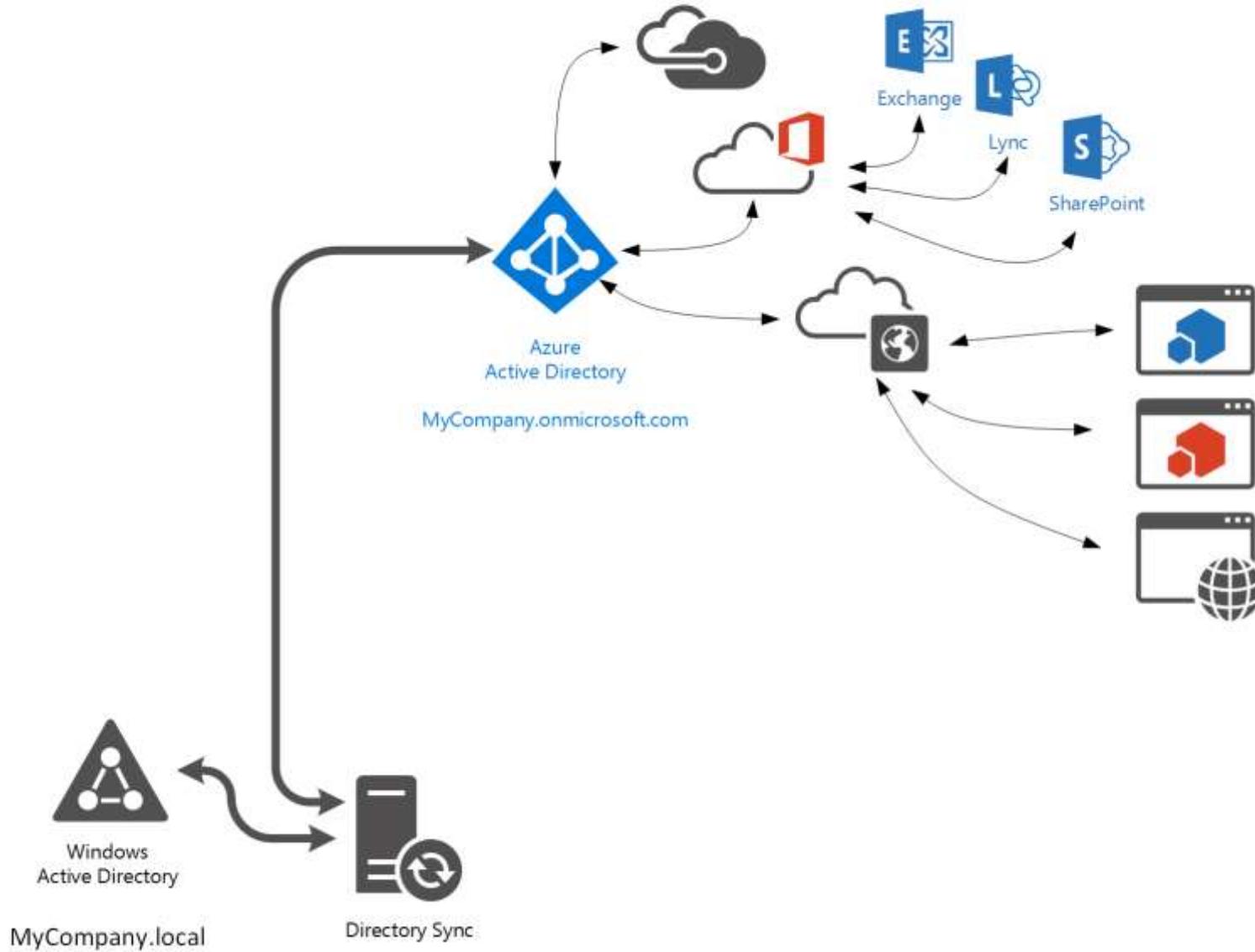
Traditional Systems and Applications, MS Cloud Services, Other Cloud Services

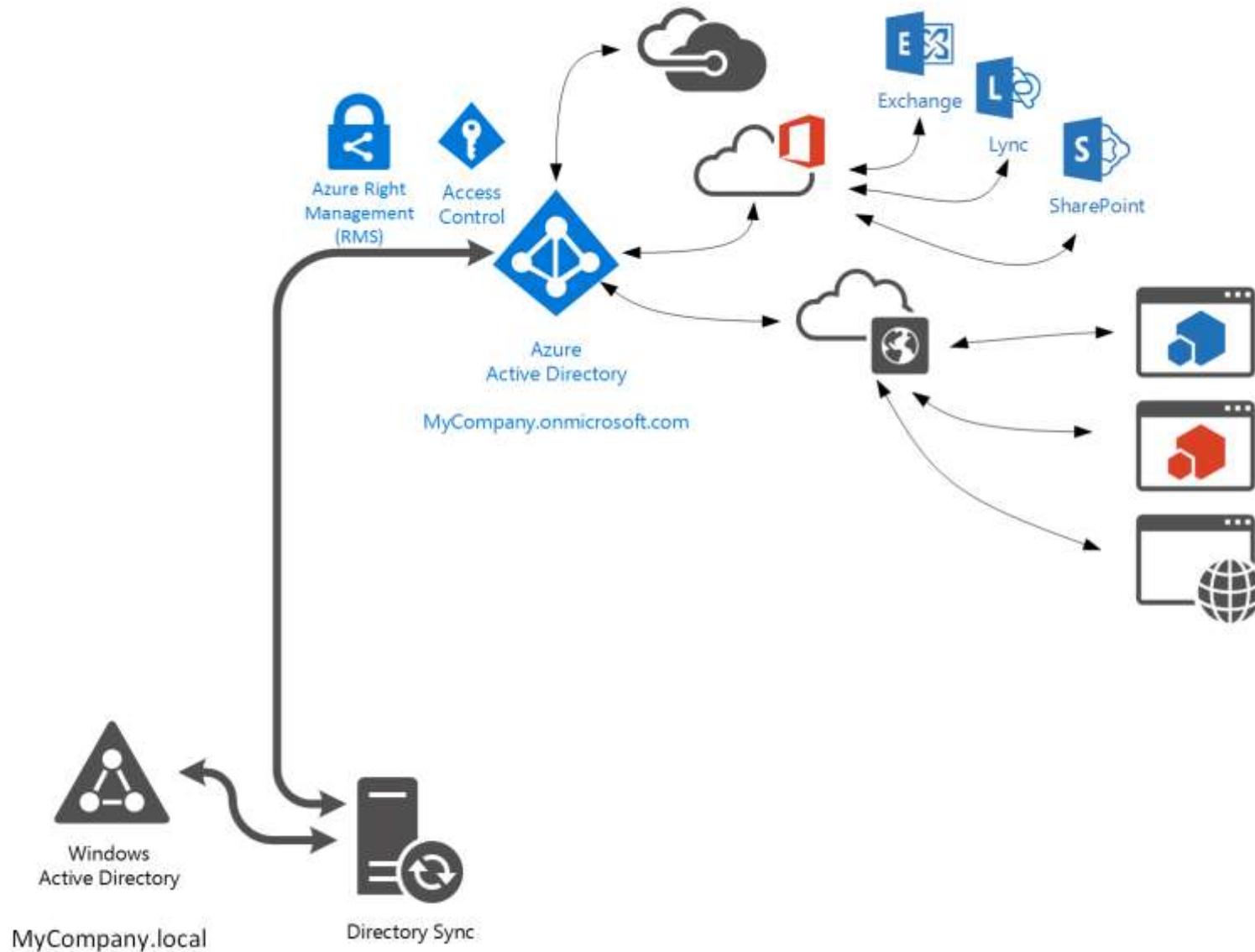
Identity

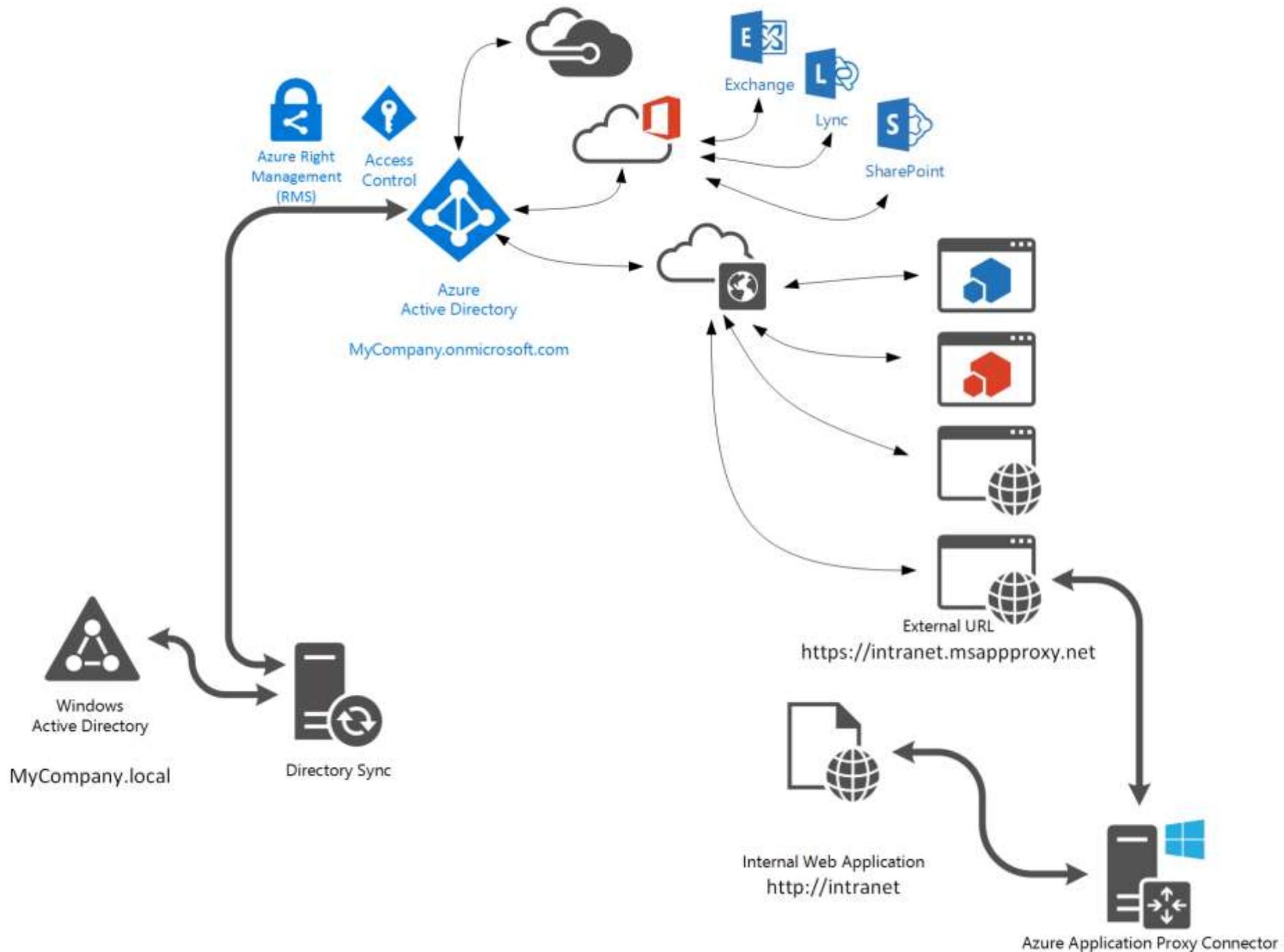


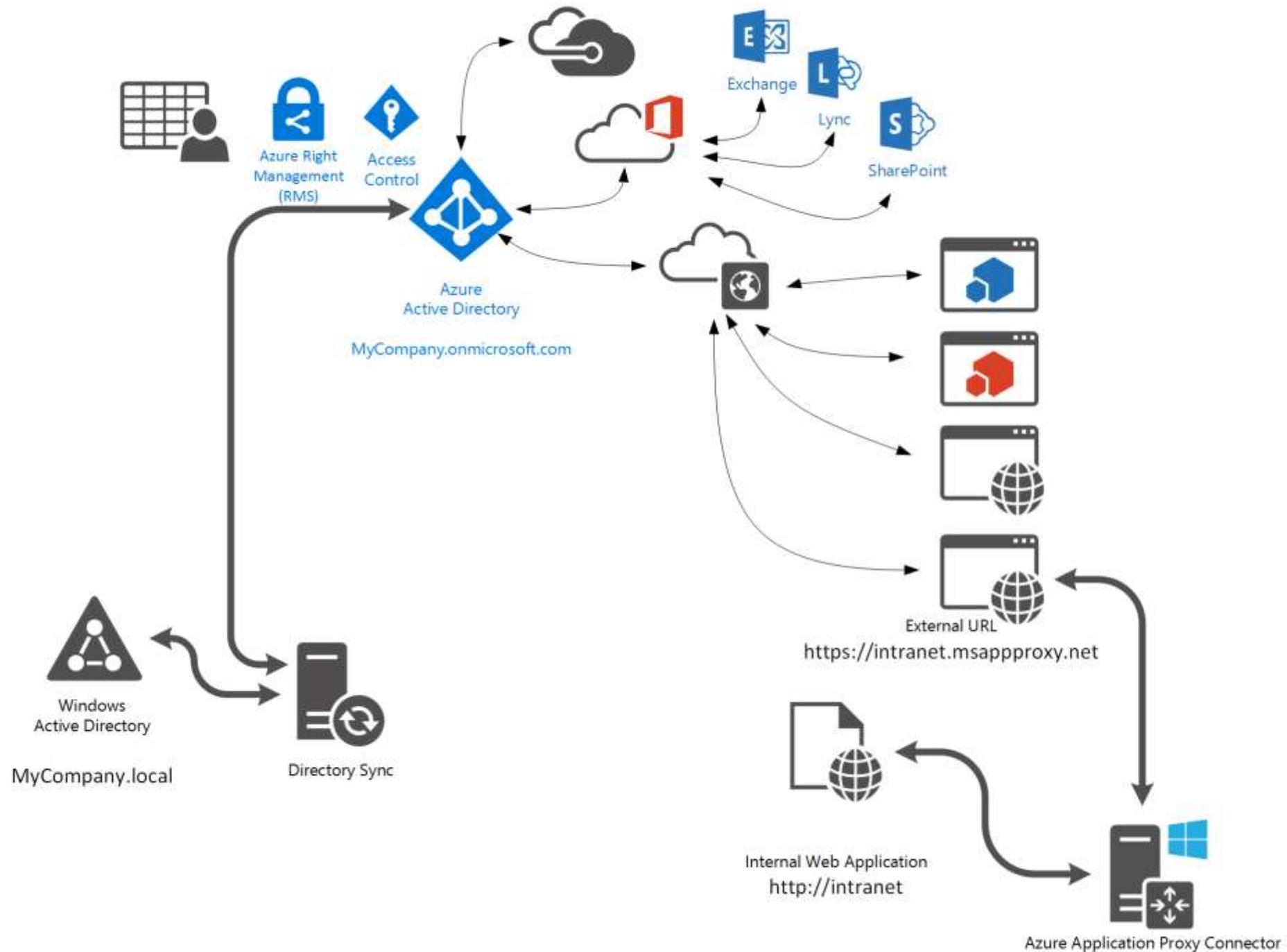












Office 365 Home (ConsultAgents)

Office 2013 on your PC

Language: English [Change](#)

Make Bing your search engine

Make MSN your browser homepage

Applies to Internet Explorer, Firefox, Chrome, and Safari

[Install now](#)

Troubleshoot installation

View all my apps

2

Twitter Yammer

Corate with Office Online

Mail Calendar People Yammer OneDrive Sites Tasks

Drive Video Word Online Excel Online PowerPoint Online OneNote Online

Sway Admin Store Mail Calendar

People OneDrive Sites Tasks Drive

Excel PowerPoint Outlook OneNote Skype for Business

Video Word Online Excel Online PowerPoint Online OneNote Online

Twitter Yammer

Office 365 Apps

The screenshot shows the Microsoft Office 365 Home page. At the top, there's a ribbon with 'Office 365' and 'Home'. A pink header bar displays '(ConsultAgents)'. On the left, a yellow box highlights the 'Office 2013 on your PC' section, which includes icons for Sway, Admin, Store, Mail, Calendar, People, OneDrive, Sites, Tasks, Drive, Excel, PowerPoint, Outlook, OneNote, and Skype for Business. Below this, another yellow box highlights the 'Corate with Office Online' section, featuring icons for Mail, Calendar, People, Yammer, OneDrive, Sites, Tasks, Drive, Video, Word Online, Excel Online, PowerPoint Online, OneNote Online, and Sway. The bottom part of the page shows a grid of 'Office 365 Apps' with icons for Admin, Store, Mail, Calendar, People, OneDrive, Sites, Tasks, Drive, Video, Word Online, Excel Online, PowerPoint Online, OneNote Online, and Sway.

1 applications

groups

approvals

profile



Showing 4 of 4

Azure AD Reports

ANOMALOUS ACTIVITY

- Sign ins from unknown sources
- Sign ins after multiple failures
- Sign ins from multiple geographies
- Sign ins from IP addresses with suspicious activity
- Sign ins from possibly infected devices
- Irregular sign in activity
- Users with anomalous sign in activity
- Users with leaked credentials

ACTIVITY LOGS

- Audit report
- Password reset activity
- Password reset registration activity
- Self service groups activity

INTEGRATED APPLICATIONS

- Application usage
- Account provisioning activity
- Password rollover status
- Account provisioning errors

RIGHTS MANAGEMENT

- RMS usage
- Most active RMS users
- RMS device usage
- RMS enabled application usage

EXTERNAL ACCESS

- Invitation summary



≡



PROTECTION

ad

DETECTION TYPE RISK EVENT TYPE

RISK EVENTS CLOSED

DATE RANGE (UTC)

Real-time Sign-ins from anonymous IP address(es)

163 of 163

3/3/2016 - 3/9/2016

Real-time Sign-ins from unfamiliar location(s)

2 of 2

3/9/2016 - 3/10/2016

Sign-ins from anonymous IP addresses

RISK EVENTS

Last 30
days

Columns



Details



Download

i Apply a sign-in risk policy for automatic mitigation. →



ACTIVE

0

CLOSED

163

	USER	IP	LOCATION	SIGN-IN TIME (UTC)	STATUS
	Candy Dominguez	93.184.66.227	Bratislava, Bratislavsky, SK	▶ 4 instances	Closed (p)
	Candy Dominguez	37.130.227.133	Redbridge, Greater London, UK	▶ 4 instances	Closed (p)
	Candy Dominguez	66.180.193.219	Los Angeles, California, US	▶ 2 instances	Closed (p)
	Candy Dominguez	173.254.216.69	Los Angeles, California, US	▶ 2 instances	Closed (p)
	Candy Dominguez	195.154.56.44	Paris, Paris, FR	▶ 3 instances	Closed (p)
	Candy Dominguez	171.25.193.78	Stockholm, Stockholms Lan..., SE	▶ 2 instances	Closed (p)

Conditional Access Control

User attributes

- User identity
- Group memberships
- Auth strength (MFA)

Devices

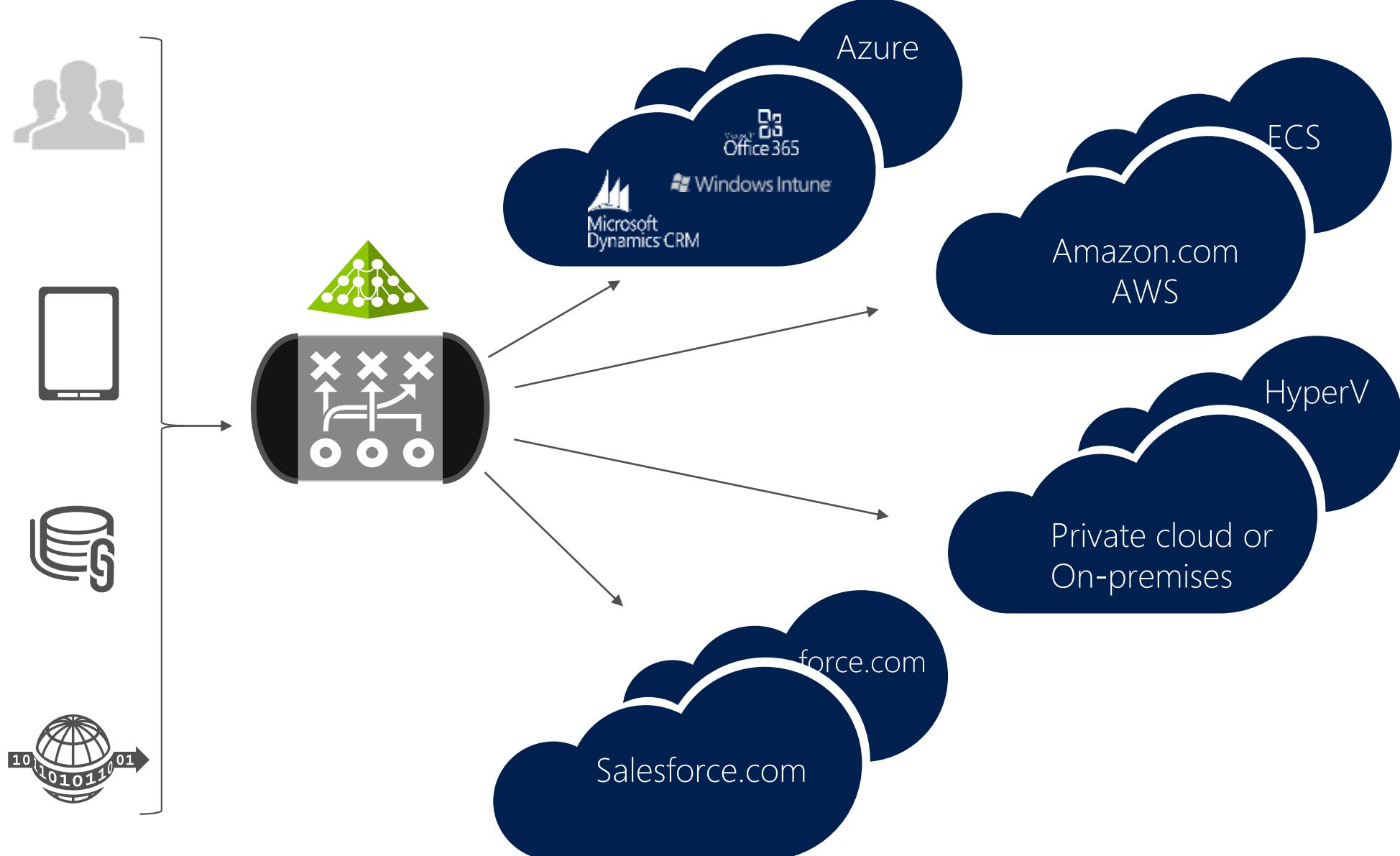
- Known to organization
- MDM Managed (Intune)
- Compliant with policies
- Not lost/stolen

Application

- Business sensitivity

Other

- Inside corp. network
- Outside corp. network
- Risk profile



MDM beyond email



Supported Platforms



Mobile Device Management for Office 365

User-centric approach

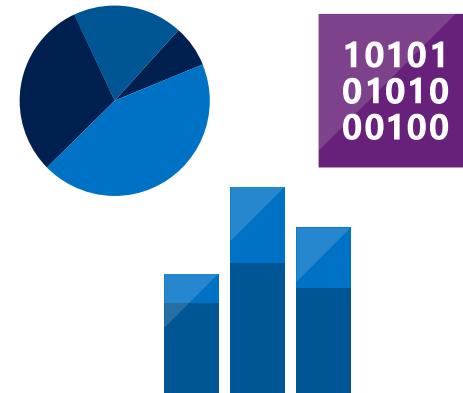
Conditional Access



Device Management



Selective Wipe



Application Management



Built-In



Microsoft Intune

Conditional Access

Before mobile devices can access Office 365 data, they must be enrolled and healthy.



1. A user downloads the public OneDrive app on a personal iPad

2. The user is shown a page that directs them to enroll the iPad

3. The user steps through the enrollment process

4. The OneDrive app is now MDM enabled

5. The user is able to access their OneDrive data

Device Management

Device Policies

- Control what mobile devices can connect to Office 365 Data
- Set device configuration policies such as pin lock
- Enforce data encryption on devices

Admin Controls

- Built-In management in Office 365 Admin Center, and PowerShell
- Configure device policies by groups
- Product level granular control

Device Reporting

- Device compliance reports
- Mobile usage and trends in our organization
- API support

New Device Security Policy

What requirements do you want to have on devices?

Require a password
 Prevent simple password
 Require an alphanumeric password:
 Password must include at least character sets

Minimum password length:
 4 characters
 Number of sign-in failures before device is wiped
 attempts

Minutes of inactivity before device is locked:
 minutes

Password expiration:
 days

Remember password history and prevent reuse:
 Store up to previous passwords

Require data encryption on devices
 Device cannot be jail broken or rooted

[back](#) [next](#) [cancel](#)

Selective Wipe

The IT admin can wipe Office 365 data from the user's device. When they trigger the wipe, all of the data cached or stored by the apps will be deleted, while all of the user's personal content remains intact.



1. An employee uses Office 365 apps and data on a mobile device. The employee leaves the company.



2. The IT admin logs into Office 365 Admin Center to perform a selective wipe



3. The Office 365 data is removed from the Office applications leaving personal information intact

Mobile Application Management with Microsoft Intune

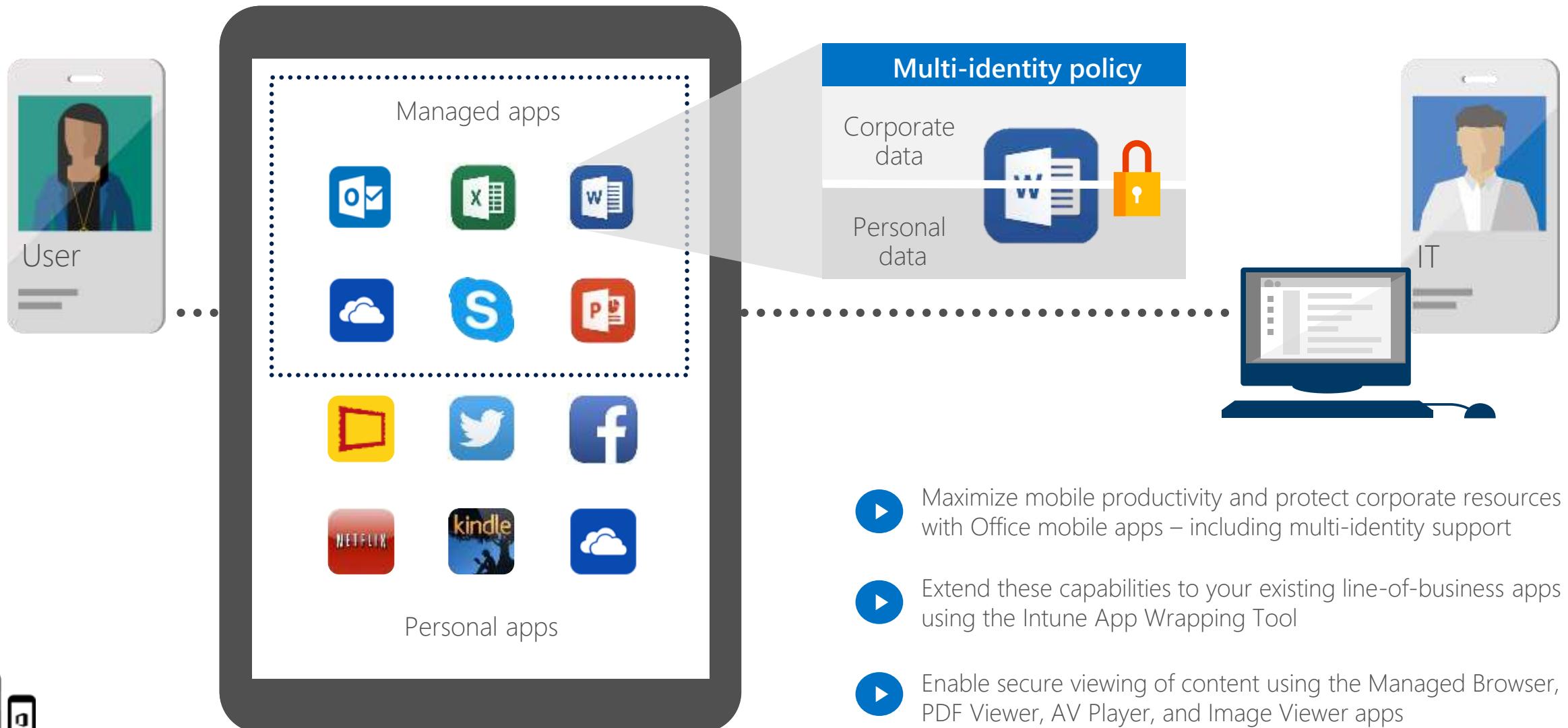


Manage all of your corporate apps and data with Intune's mobile device and application management solution

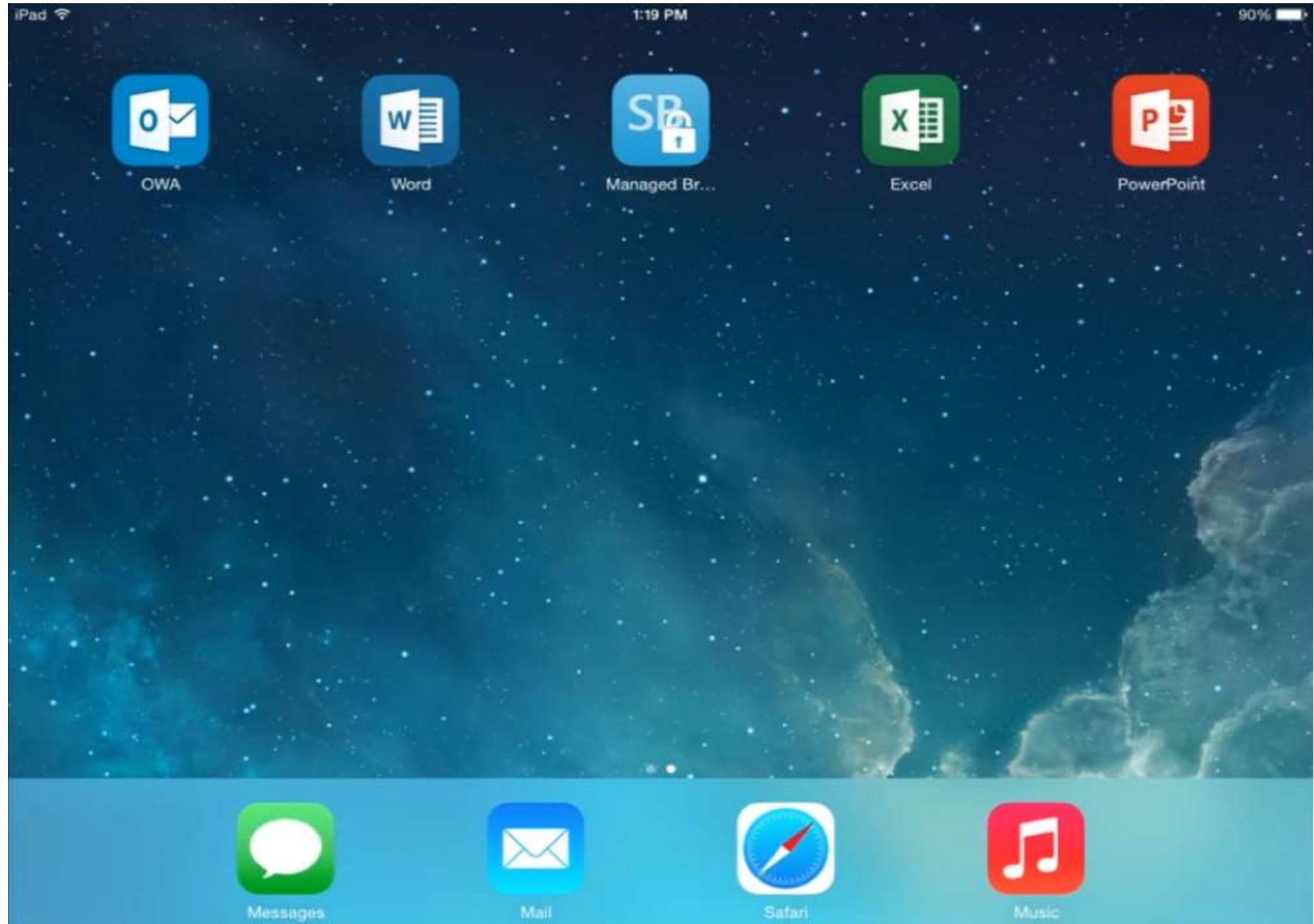
Complete mobile application management

- Securely access corporate information using Office mobile apps, while preventing company data loss by restricting actions such as copy/cut/paste/save in your managed app ecosystem
- Extend these capabilities to existing line of business apps using the Intune app wrapper
- Enable secure viewing of content using the Managed Browser, PDF Viewer, AV Player, and Image Viewer apps

Mobile application management



Office Managed Applications Walkthrough



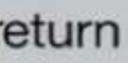


Managed by your company

Enter your PIN

[Forgot your PIN?](#)

1 2 3 4 5 6 7 8 9 0 

- / : ; () \$ & @  return

#+= undo . , ? ! , " #+=

ABC

ABC





Managed by your company

Enter your PIN

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[Forgot your PIN?](#)

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INBOX



all unread to me flagged

LAST MONTH

Daniel Emerson

App Store Report Info

6/13/2014

Please see the latest data with the curre...

App Store Report Info



Daniel Emerson <Daniel.Emerson@microsoft.com>

Fri 6/13/2014 1:49 PM

To: Arianna Moshary;

1 attachment



App Store reports.xlsx

478 KB

...

478 KB

Action items

Please see the latest data with the current app store information.

-Daniel

Connecting...

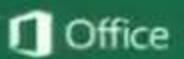
X



PowerPoint

1:20 PM

20% ■



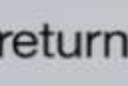


Managed by your company

Enter your PIN

[Forgot your PIN?](#)

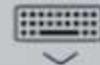
1 2 3 4 5 6 7 8 9 0 

- / : ; () \$ & @ 

#+= undo . , ? ! , " #+=

ABC

ABC





Managed by your company

Enter your PIN

[Forgot your PIN?](#)

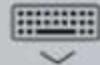
1 2 3 4 5 6 7 8 9 0 A standard numeric keypad with a clear key at the top right.

- / : ; () \$ & @ A standard keyboard row with punctuation marks and a return key.

#+= undo . , ? ! , " #+= A standard keyboard row with special characters and a large space bar.

ABC

ABC



Arianna

New

Recent

Open

New Blank Workbook

Annual Financial Report

Calendar

Channel Marketing Budget

Expense Report

General Ledger

Household Budget

Inventory List

Invoice

Mortgage Loan Calculator

Movie List

Quarterly Sales Report

To-Do List

Wedding Center Tracker

Opening...
attachmentBFC07032

Cancel



Calibri

11

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(X) Read-Only To edit, tap Duplicate and change the resulting copy.

Duplicate

fx Germany

	A	B	C	D	E	F	G	H	I	J	K
1	iPad	A	B	C	D	E	F	G	H	I	J
2	Categories			Top Charts							
3	Paid	Top Grossing		Free							
4	Minecraft - Pocket Edition Games 4.5 100,000+	1	Microsoft Word for iPad Productivity 4.5 100,000+	1							
5	Loopy HD Music 4.5 100,000+	2	Microsoft Excel for iPad Productivity 4.5 100,000+	2							
6	Doc McStuffins Paint and Play Education 4.5 100,000+	3	Microsoft PowerPoint for iPad Productivity 4.5 100,000+	3							
7	Block Iron 3D (original) - Mini Survival FPS Craft... Games 4.5 100,000+	4	Microsoft OneNote for iPad Productivity 4.5 100,000+	4							
8	Surgeon Simulator Games 4.5 100,000+	5	Boom Beach Games 4.5 100,000+	5	FREE						
9	Skyblock - Survival Game Mission Flying Island Games 4.5 100,000+	6	2048 Games 4.5 100,000+	6	FREE						
10	Angry Birds Star Wars II Games 4.5 100,000+	7	Smash Hit Games 4.5 100,000+	7	FREE						
11	foodgawker for iPad Food & Drink 4.5 100,000+	8	Star Wars: Assault Team Games 4.5 100,000+	8	FREE						

Downloads by Coun...

Downloads by Product

Ranking

+

Sum : 0

Downloads by Country (Top 10)

Country	Downloads
U.S.A.	12,551,290
U.K.	3,296,331
China	3,060,986
Mexico	1,427,828
Germany	1,242,704
Russia	1,181,069
Canada	1,122,512
Brazil	1,121,363
Australia	1,114,262
France	936,482

Numbers are for illustration purposes only



HOME INSERT FORMULAS REVIEW VIEW TABLE



Calibri

11

B*I*U

General

Normal



Read-Only To edit, tap Duplicate and change the resulting copy.

Duplicate

fx Country

C D E F G H I J K L M

1 Top Charts

2 Free

3 Microsoft Word for iPad

1 Microsoft Word for iPad
Productivity
4.5 (100)

4 Microsoft Excel for iPad

2 Microsoft Excel for iPad
Productivity
4.5 (100)

5 Microsoft PowerPoint for iPad

3 Microsoft PowerPoint for iPad
Productivity
4.5 (100)

6 Microsoft OneNote for iPad

4 Microsoft OneNote for iPad
Productivity
4.5 (100)

7 Boom Beach

5 Boom Beach
Games
4.5 (1,417)

8 2048

6 2048
Games
4.5 (1,176)

9 Smash Hit

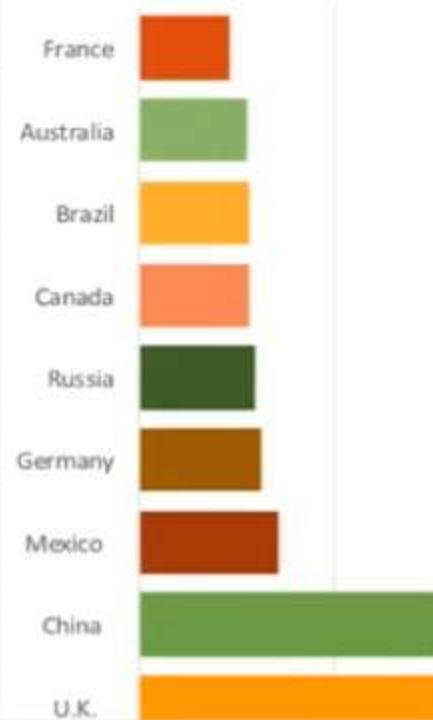
7 Smash Hit
Games
4.5 (10,765)

10 Star Wars: Assault Team

8 Star Wars: Assault Team
Challeng...

Country	Downloads
U.S.A.	12,551,290
U.K.	3,296,331
China	3,060,986
Mexico	1,427,828
Germany	1,242,704
Russia	1,181,069
Canada	1,122,512
Brazil	1,121,363
Australia	1,114,262
France	936,482

Numbers are for illustration purposes only



Downloads by Coun...

Downloads by Product

Ranking

+

Sum : 27054825.2

iPad 89% 1:20 PM attachmentBFC07032

HOME INSERT FORMULAS REVIEW VIEW TABLE

Calibri 11 B I U A ABC 123 General Normal A Z

Read-Only To edit, tap Duplicate and change the resulting copy. Duplicate

fx Country

8:40 AM Top Charts quickoffice

Free

	C	D	E	F	G	H	I	J	K	L	M
1											
2											
3											
4	\$0.99	1	Microsoft Word for iPad	Productivity	4.5 (200)						
5											
6	\$0.99	2	Microsoft Excel for iPad	Productivity	4.5 (100)						
7											
8	\$0.99	3	Microsoft PowerPoint for iPad	Productivity	4.5 (100)						
9											
10	\$0.99	4	Microsoft OneNote for iPad	Productivity	4.5 (100)						
11											
12	\$0.99	5	Boom Beach	Games	4.5 (1.4M)		FREE				
13											
14	\$2.99	6	2048	Games	4.5 (1.1M)		FREE				
15											
16	\$0.99	7	Smash Hit	Games	4.5 (21.7M)		FREE				
17											
18	\$1.99	8	Star Wars: Assault Team	Games	4.5 (1.7M)		FREE				
19											
20											
21											

Downloads by Country (Top 10)

Country	Downloads
U.S.A.	12,551,290
U.K.	3,296,331
China	3,060,986
Mexico	1,427,828
Germany	1,242,704
Russia	1,181,069
Canada	1,122,512
Brazil	1,121,363
Australia	1,114,262
France	936,482

Numbers are for illustration purposes only

France Australia Brazil Canada Russia Germany Mexico China U.K.

Sum : 27054825.2

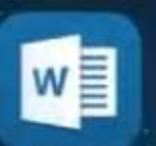
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89%



OWA



Word



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Excel



PowerPoint



Messages



Mail



Safari



Music



FaceTime



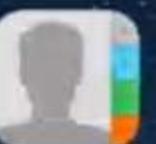
Calendar



Photos



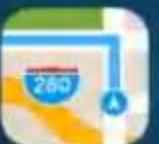
Camera



Contacts



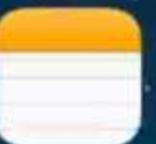
Clock



Maps



Videos



Notes



Reminders



Photo Booth



Game Center



Newsstand



iTunes Store



App Store



Settings



Messages



Mail



Safari



Music



Q Search

July 29, 2014, 1:21 PM

New Note

Q W E R T Y U I O P ⌘

A S D F G H J K L return

⬆ Z X C V B N M ! ? ⏴

.?123 ⌊ ⌋ .?123 ⌄ ⌅



Search

July 29, 2014, 1:21 PM

New Note



Q W E R T Y U I O P ⌘

A S D F G H J K L return

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Music



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HOME

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Calibri

21



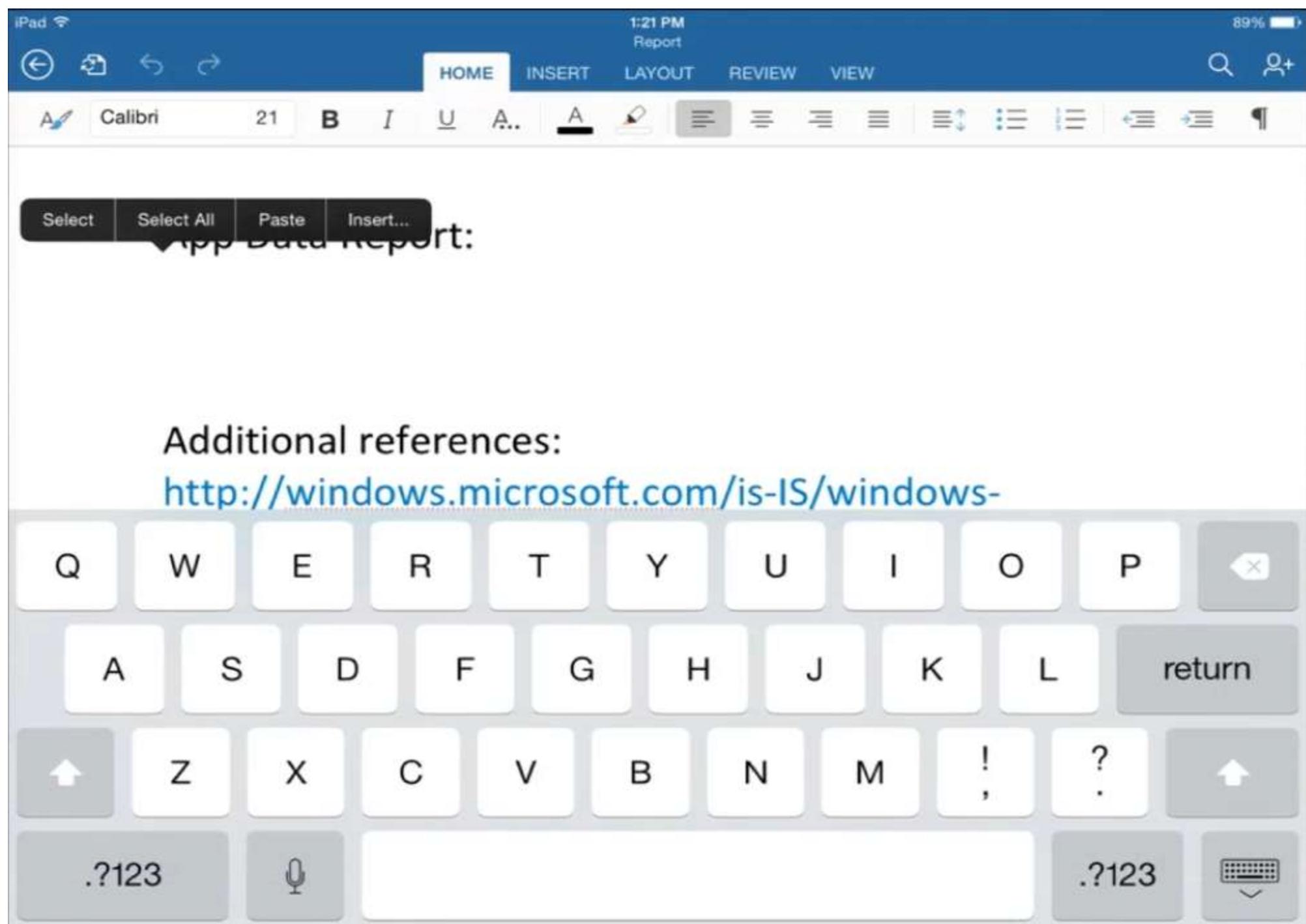
A..



App Data Report:

Additional references:

<http://windows.microsoft.com/is-IS/windows-8/apps#Cat=t1>





HOME

INSERT

LAYOUT

REVIEW

VIEW



Calibri

21



U.K.	3,296,331
China	3,060,986
Mexico	1,427,828
Germany	1,242,704
Russia	1,181,069
Canada	1,122,512
Brazil	1,121,363
Australia	1,114,262
France	936,482





HOME

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A[✓] Calibri 21 B I U A.. A

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Additional references:

<http://windows.microsoft.com/is-IS/windows-8/apps#Cat=t1>





HOME

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VIEW



Calibri

21

B



Hyperlink

http://windows.microsoft.com/is-IS/windows-8/
apps#Cat=t1

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1:22 PM

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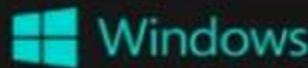


<http://windows.microsoft.com/is-IS/windows-8/apps#Cat=t1%25EE%2583%259C%25E3%25A8%25...>



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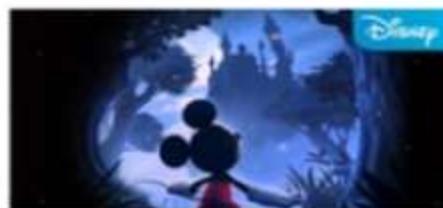
[Halo: Spartan Assault](#)

A new touch-based shooter exclusively for Windows 8 and Windows Phone 8.



[Facebook](#)

The official app. Stay in touch, get updates, and chat.



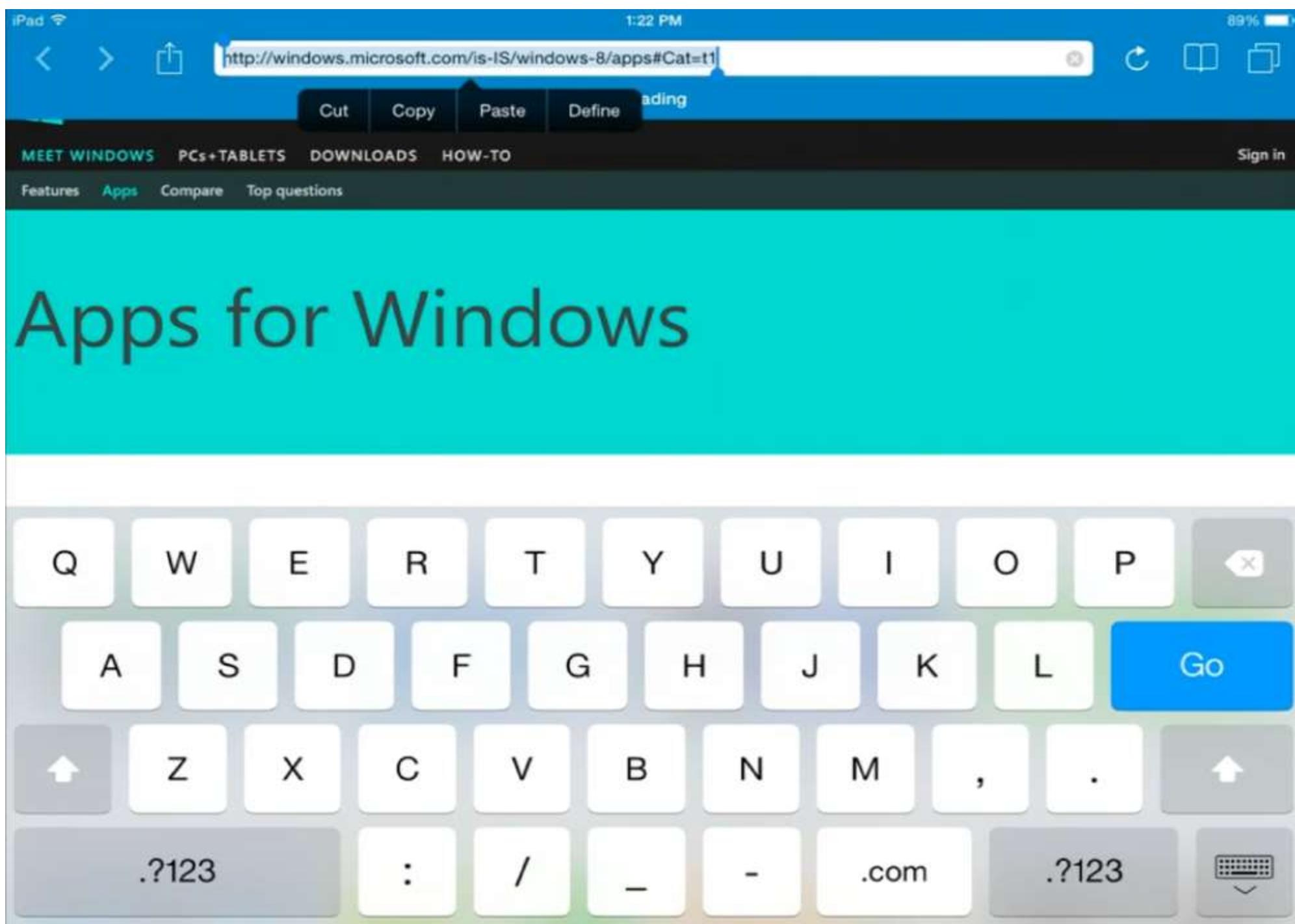
[Castles of Illusion Starring Mickey Mouse](#)

A fantastical reimagining of the Sega Genesis classic.



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End User Enrollment Walkthrough

Enrolling in Office 365 MDM

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OWA for iPad
Microsoft Corporation
★★★★★ (240)
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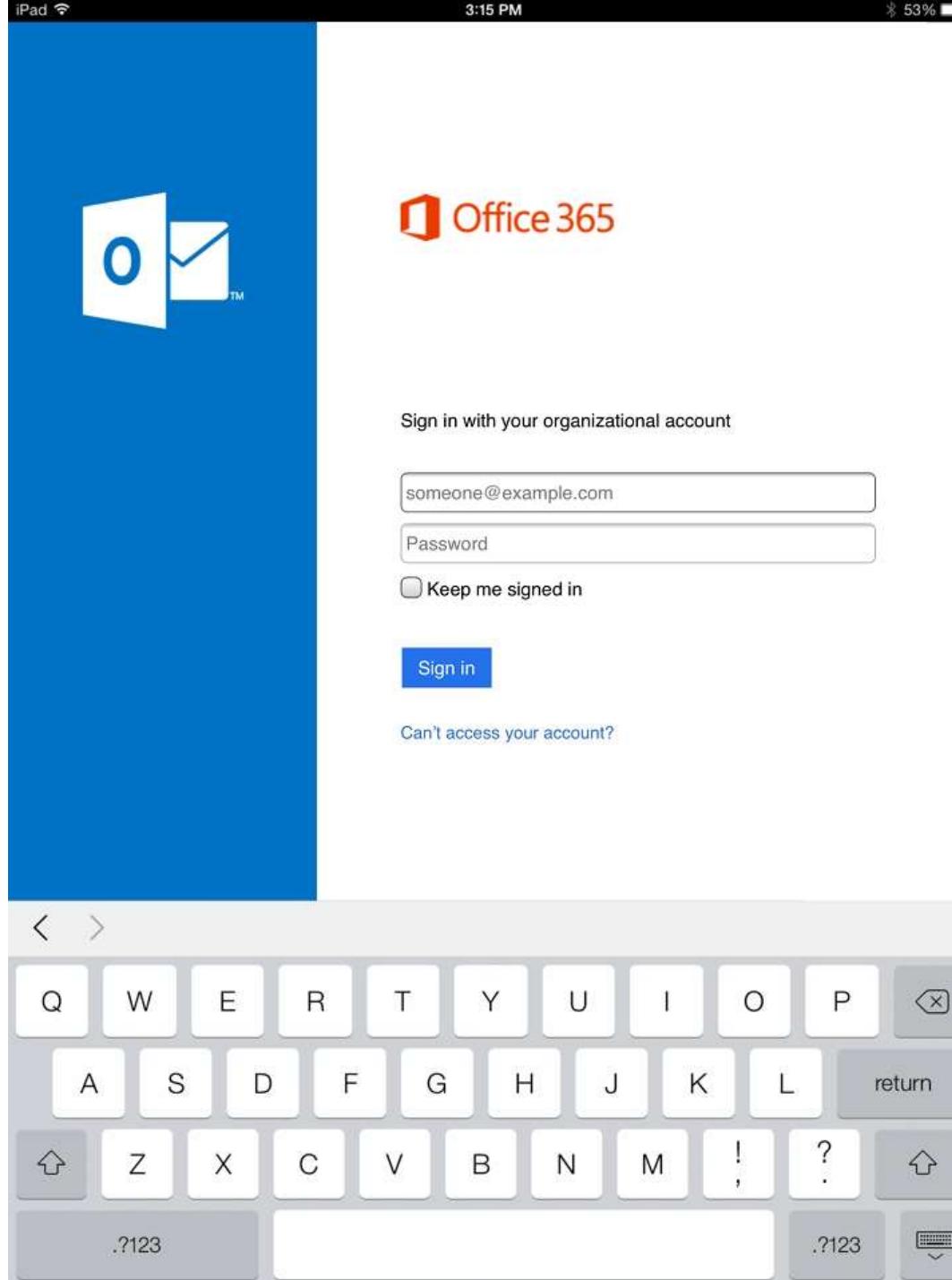
myMail - Free Hotmail, Gmail, Yahoo, Outlook, Live, AOL M...
MY.COM
★★★★★ (79)
FREE

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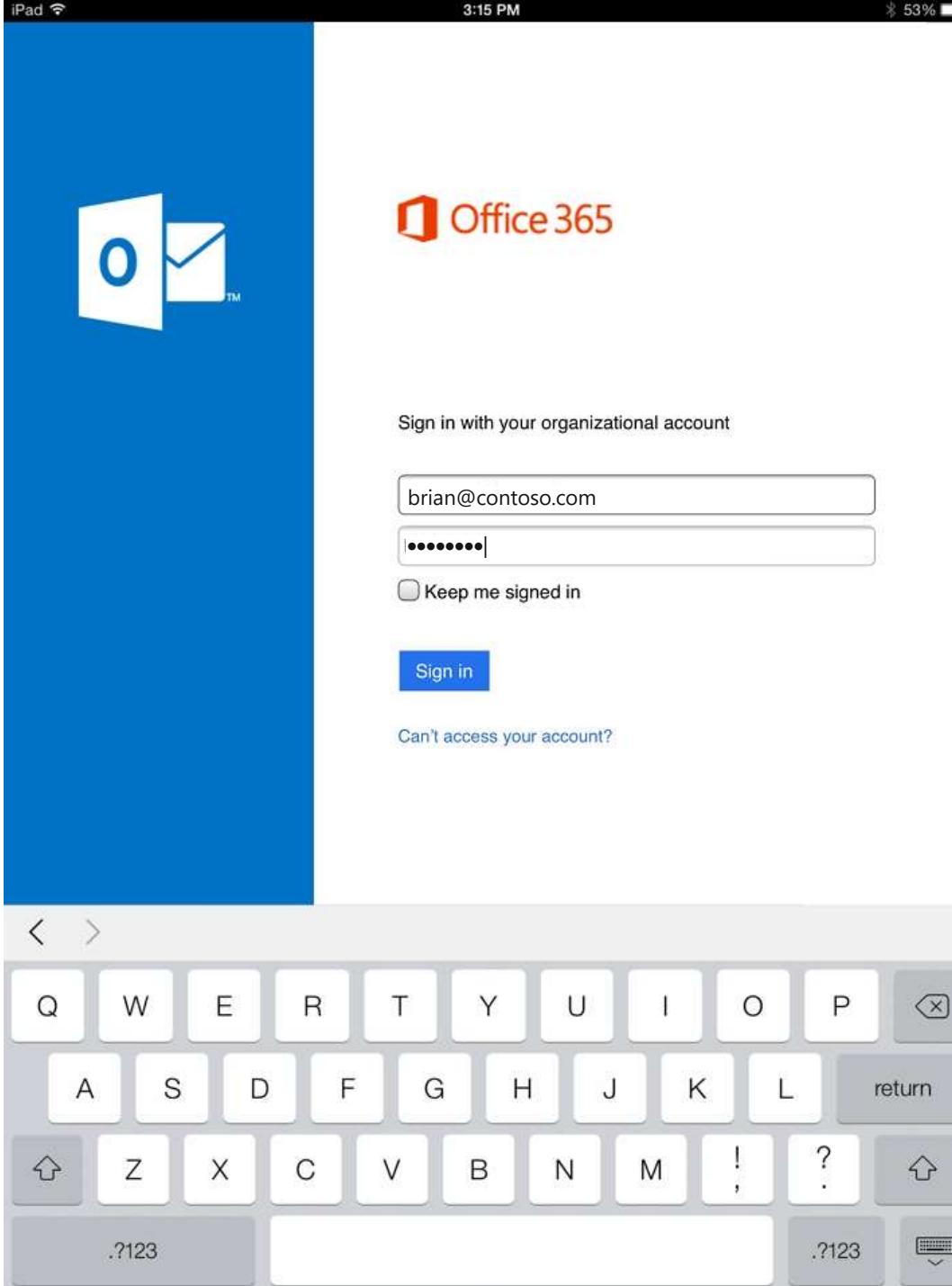
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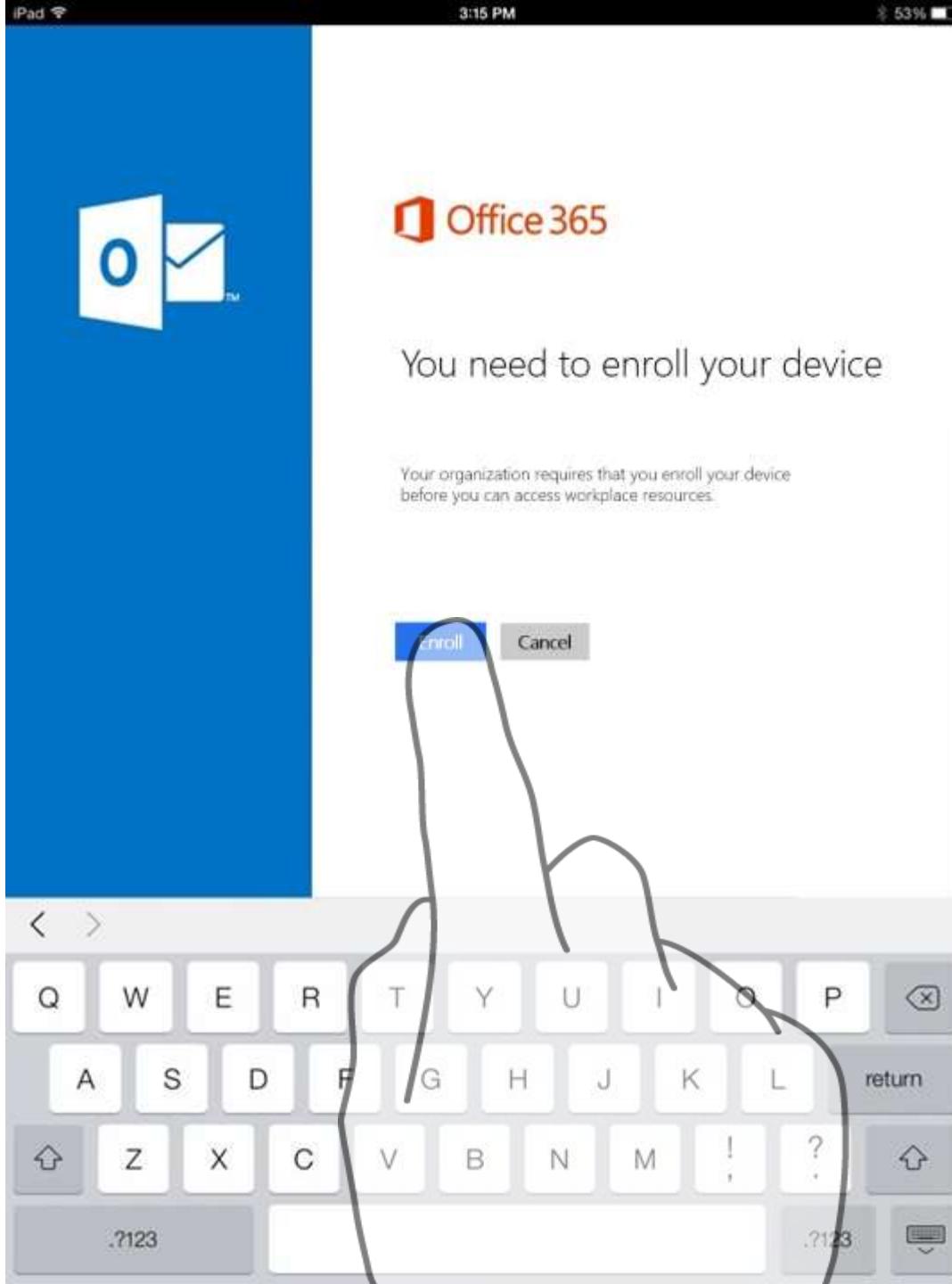
Office apps



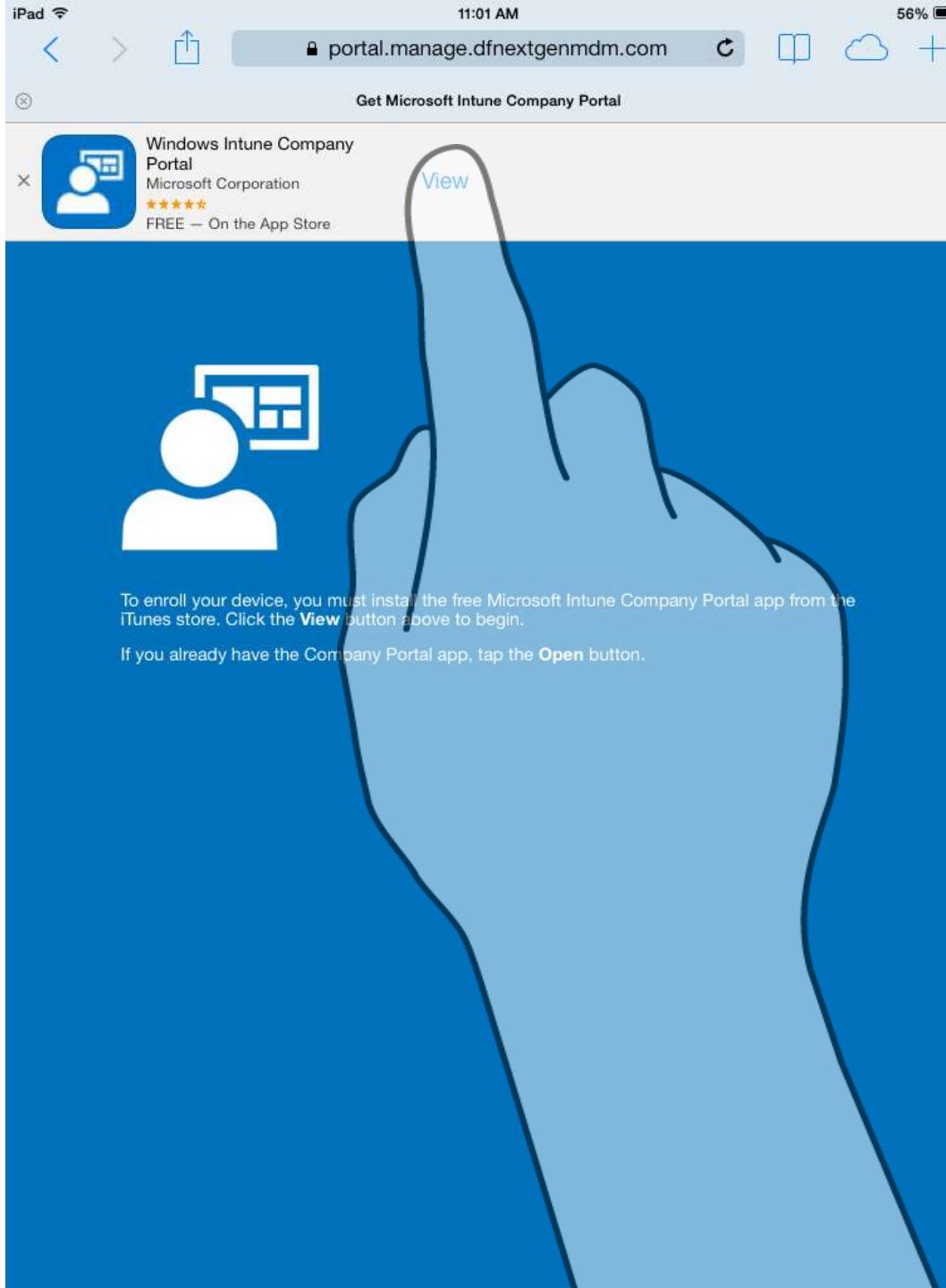
Office apps



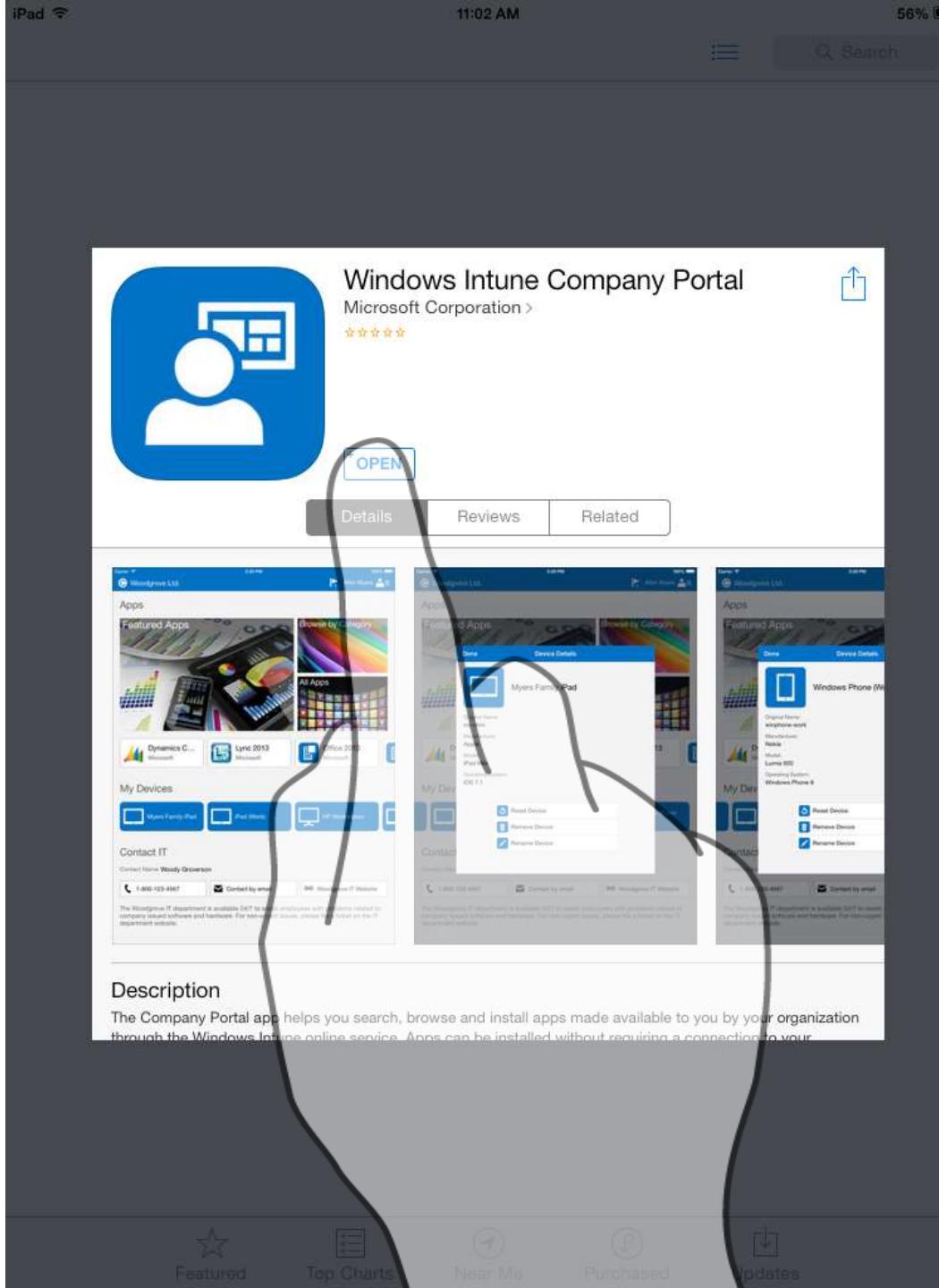
Office apps



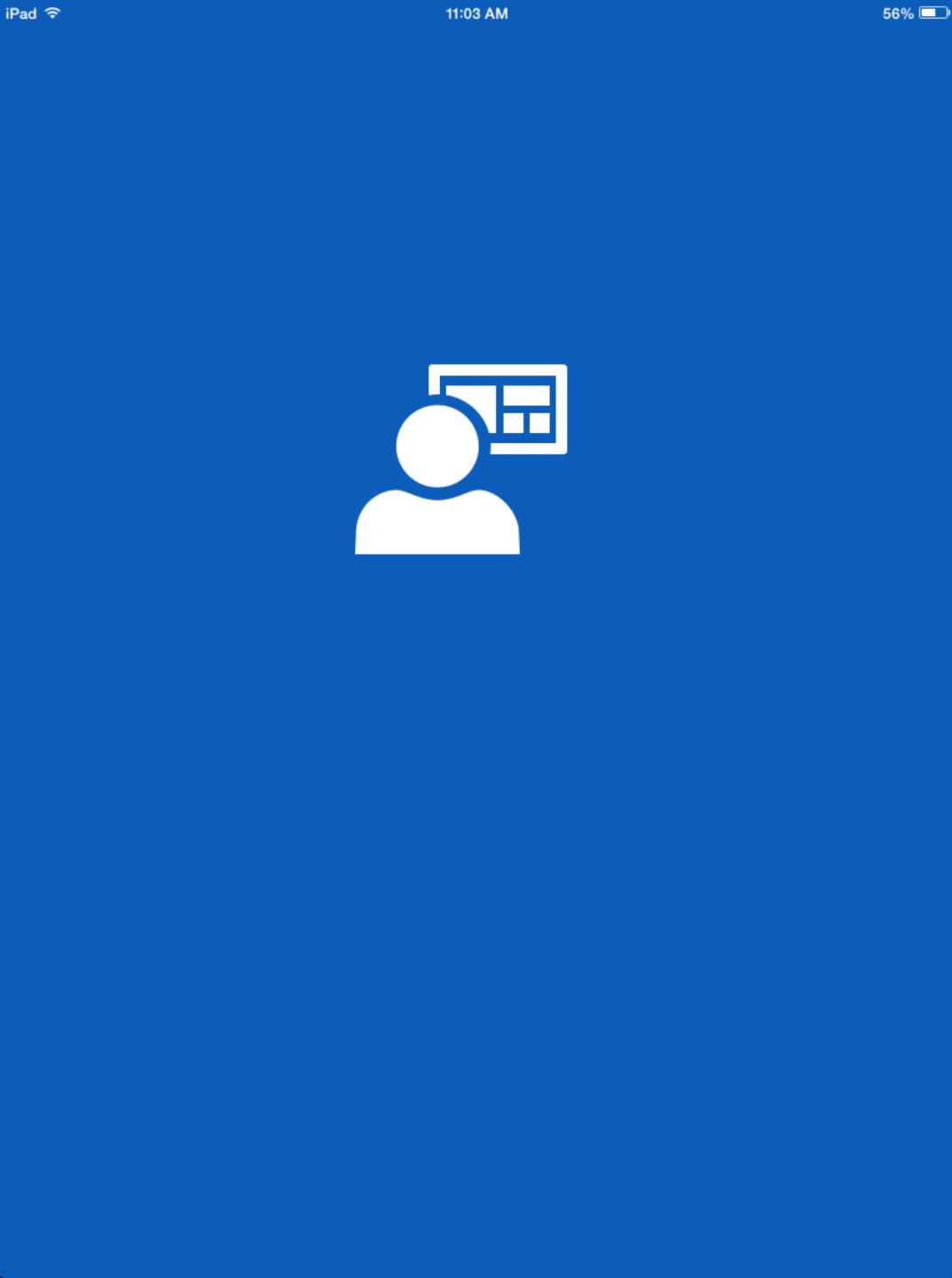
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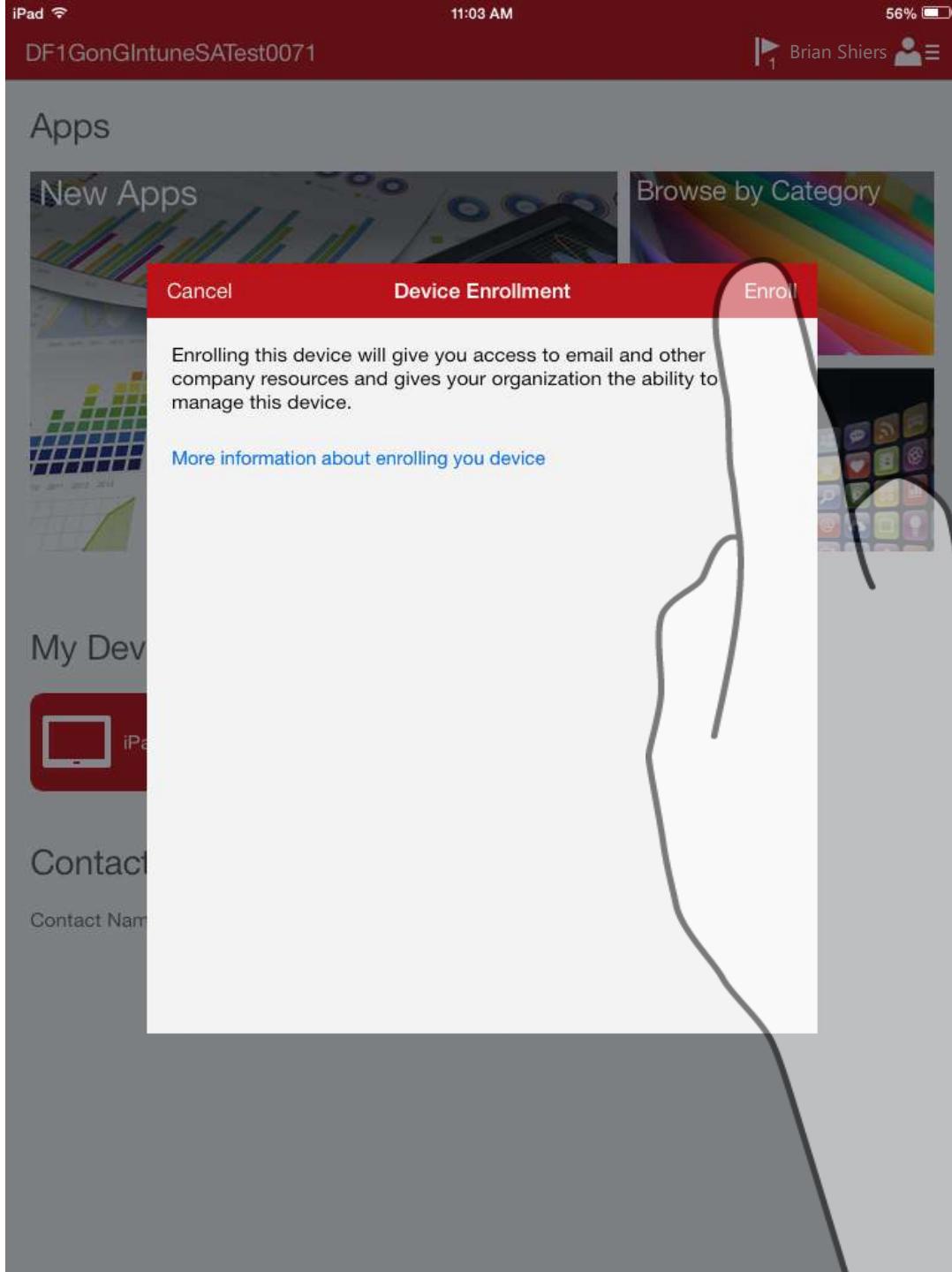
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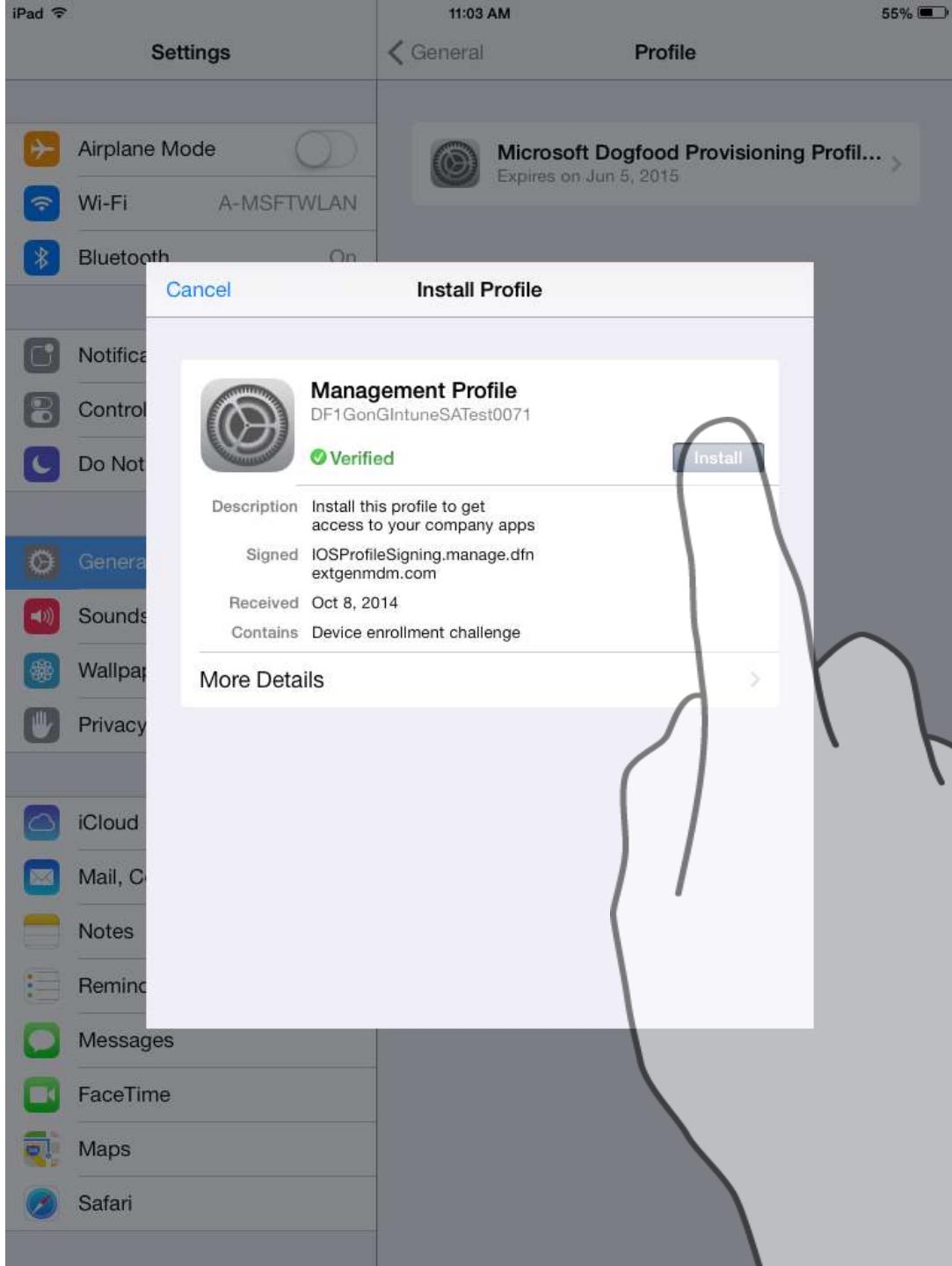
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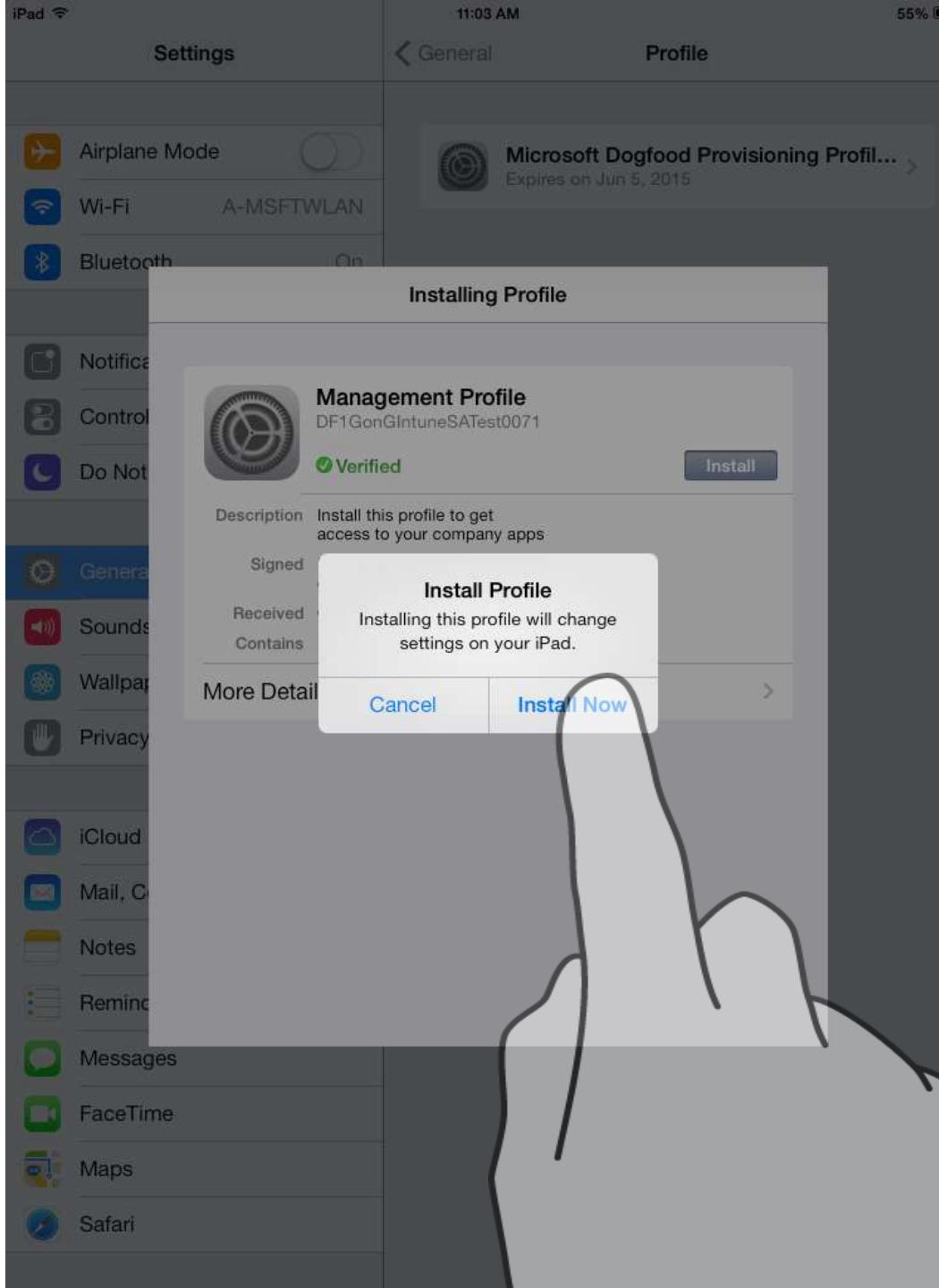
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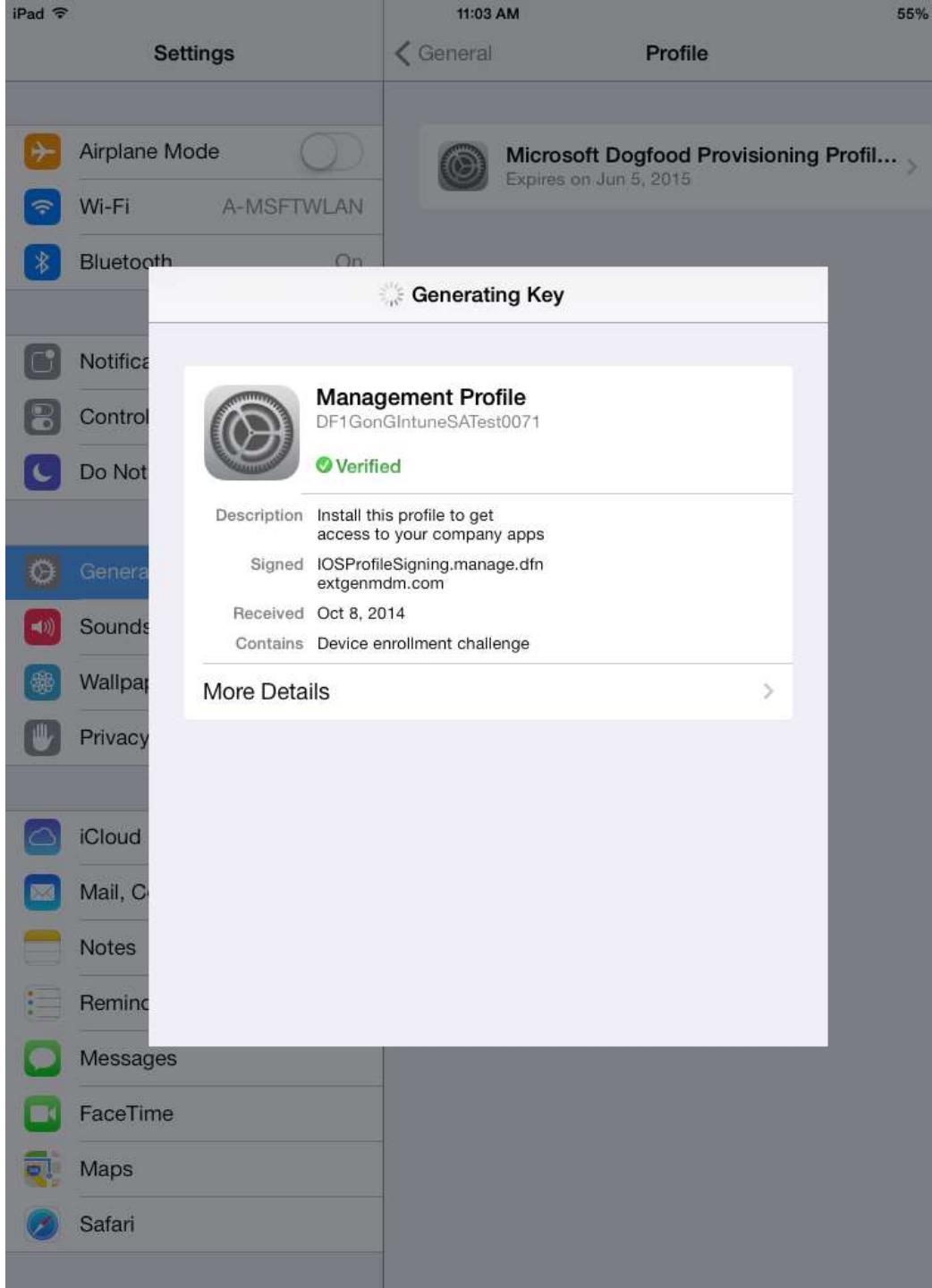
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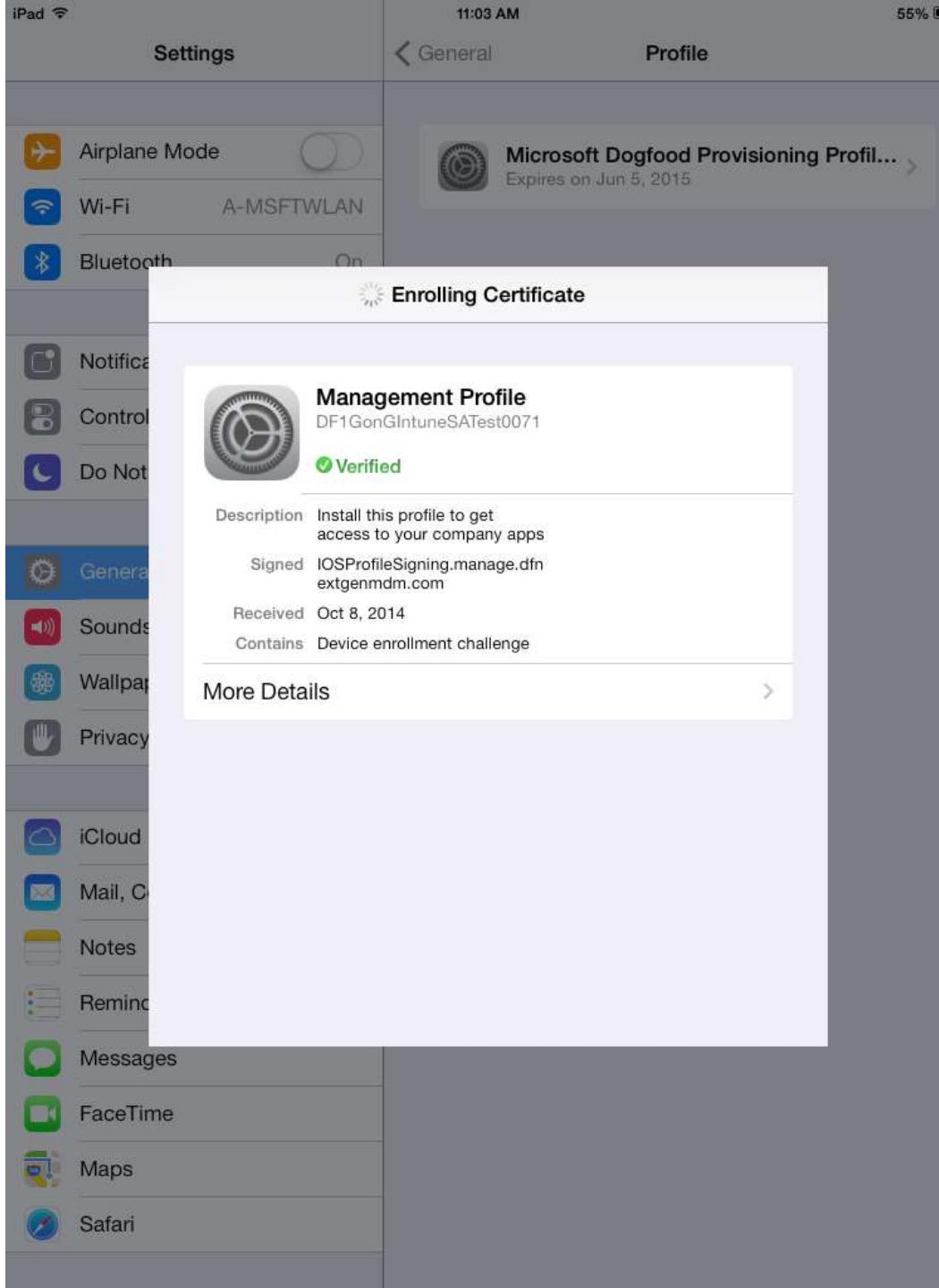
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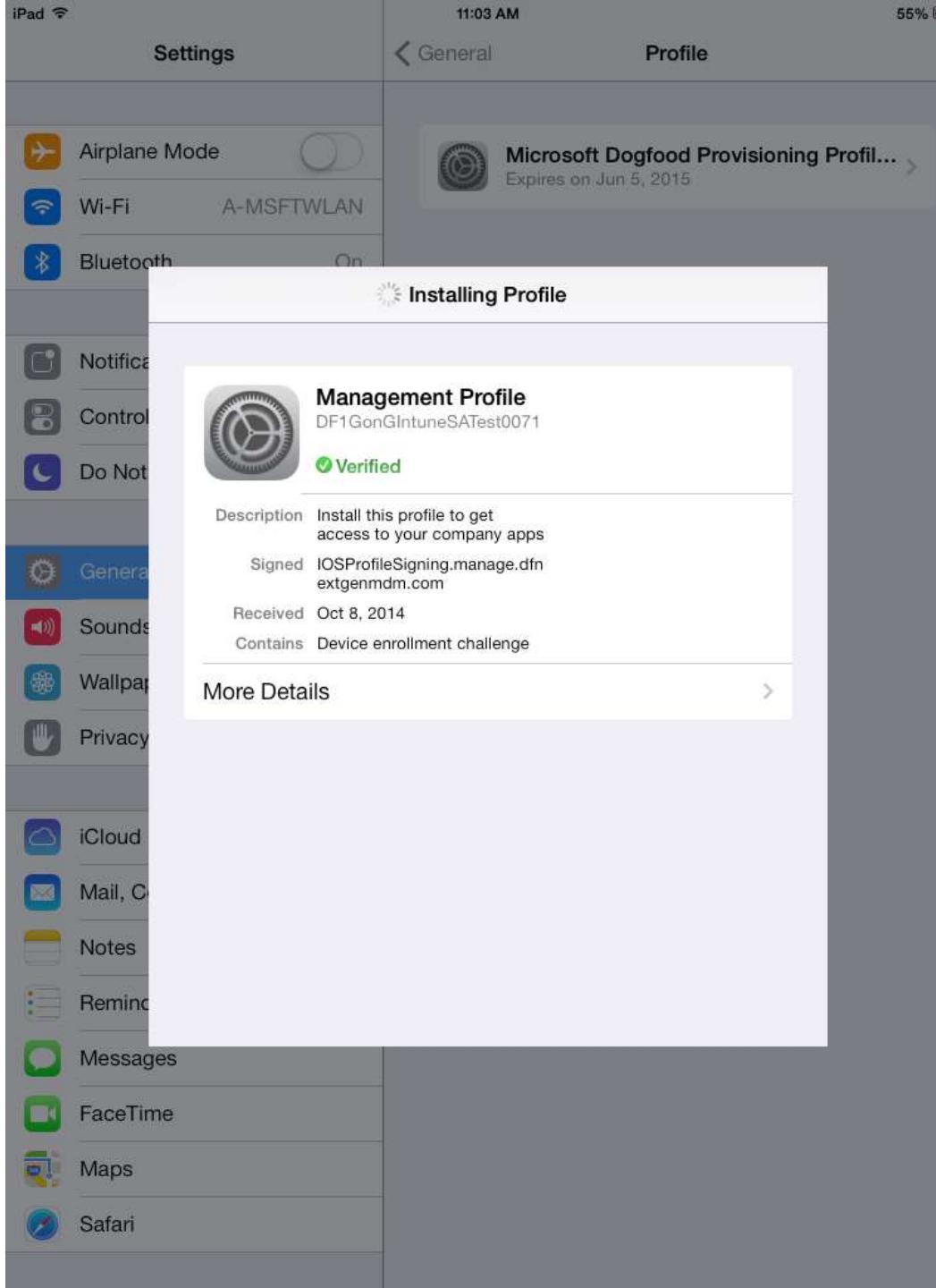
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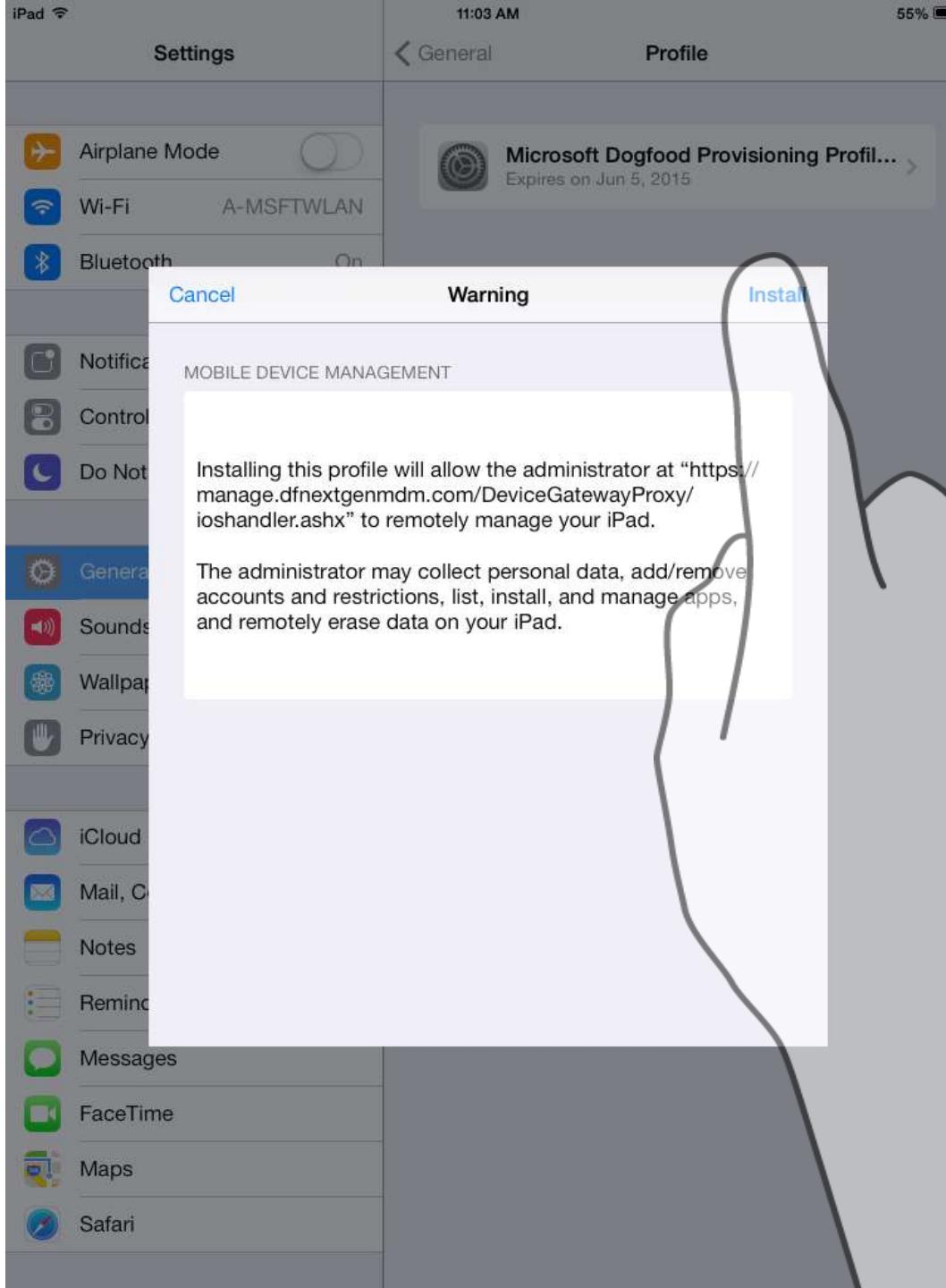
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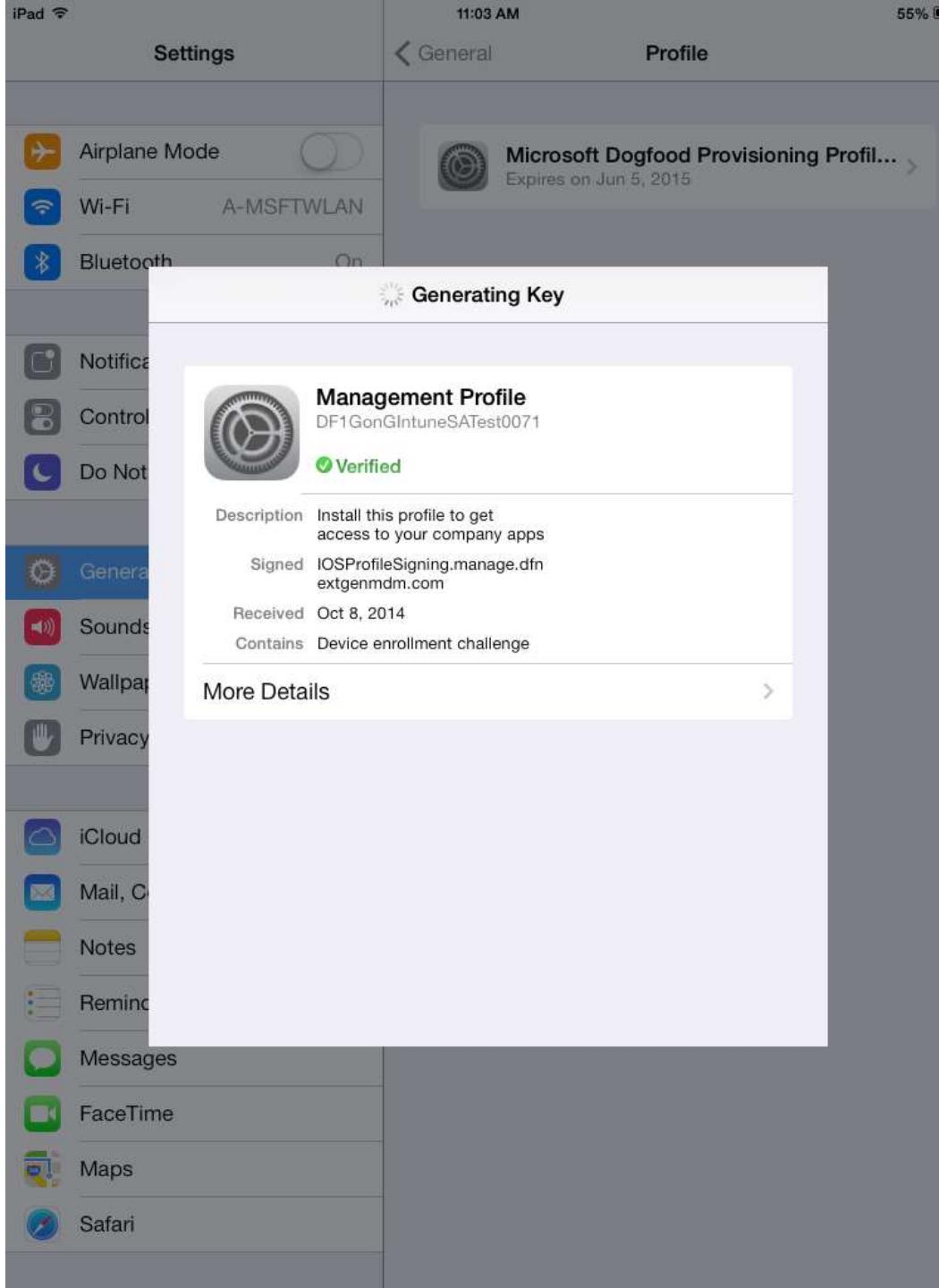
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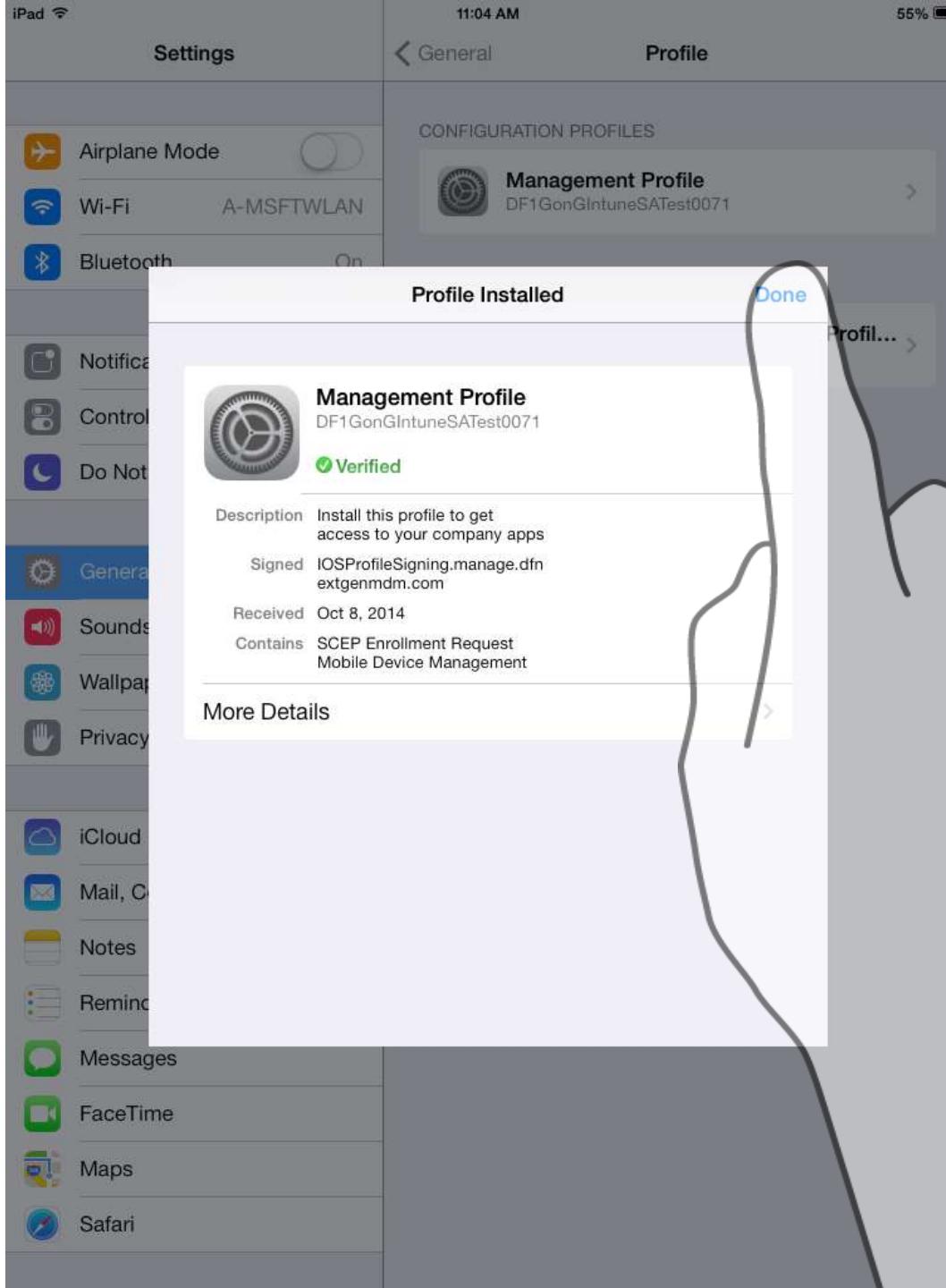
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TWO WEEKS AGO

Katie Jordan
Adobe vision video 10/30/2014
Agreed, things are moving quickly.

Katie Jordan ←
Trip Expenses? 10/30/2014
What is the IO code we should use for t...

[Draft] Katie Jordan @
Expense Summary 10/30/2014
2014 Expenses.xlsx Shared via OneDrive...

Katie Jordan @
Sharing the latest 10/30/2014
Sara/Alex- Attached is the latest versio...

Katie Jordan
Who is covering for Garth? 10/30/2014
Sara- Any ideas? I have an urgent.invoi...

Sara Davis @
Customer data 10/29/2014
Here you go (attached).

Katie Jordan
Tracking info 10/28/2014
Tracking information: Ship Carrier: FedE...

Alex Darrow
Support org changes 10/28/2014
Hi Sara, I'd love to chat with you some...

Garth Fort
Review meeting 10/28/2014
Can you set up a review meeting with B...

Garth Fort
Lunch today? 10/28/2014
How does your schedule look? Would L...

Adobe vision video

 Katie Jordan from Marketir
Thu 10/30/2014 12:33 PM

3 recipients  

To: Marketing Campaigns; Alex Darrow;
Sara Davis;
Agreed, things are moving quickly.

From: Marketing Campaigns on behalf of
Sara Davis
Sent: Tuesday, October 28, 2014 7:57:38
AM
To: Marketing Campaigns; Alex Darrow
Subject: Adobe vision video

this was great

From: Alex Darrow
Sent: Thursday, October 9, 2014 12:56:11
PM
To: Marketing Campaigns; Marketing
Campaigns
Subject: Adobe vision video

Totally unrelated to what we are doing, but
pretty cool i think.

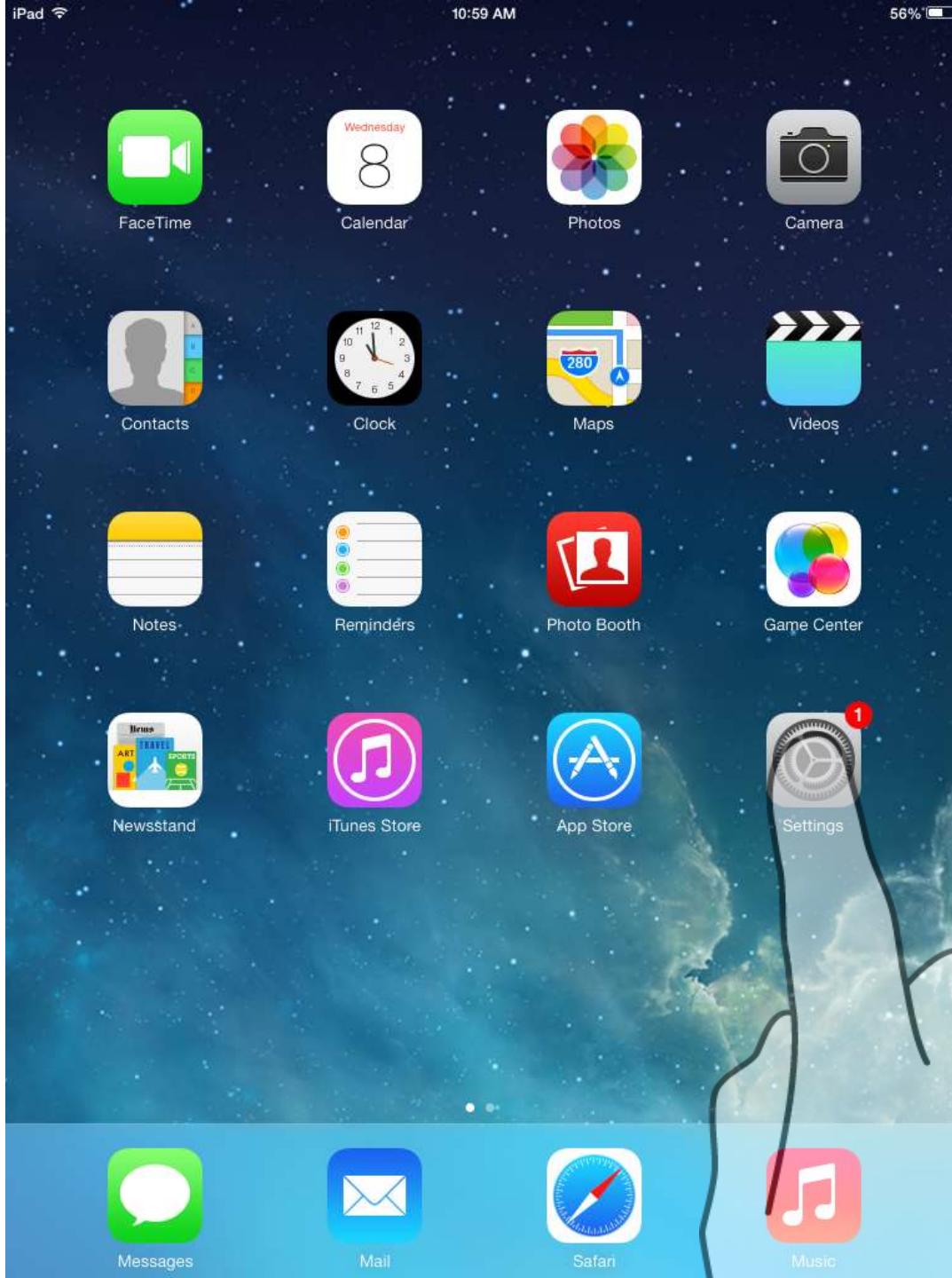
<https://www.youtube.com/watch?v=PILR9ANGsOo>

Enrolling in Office 365 MDM

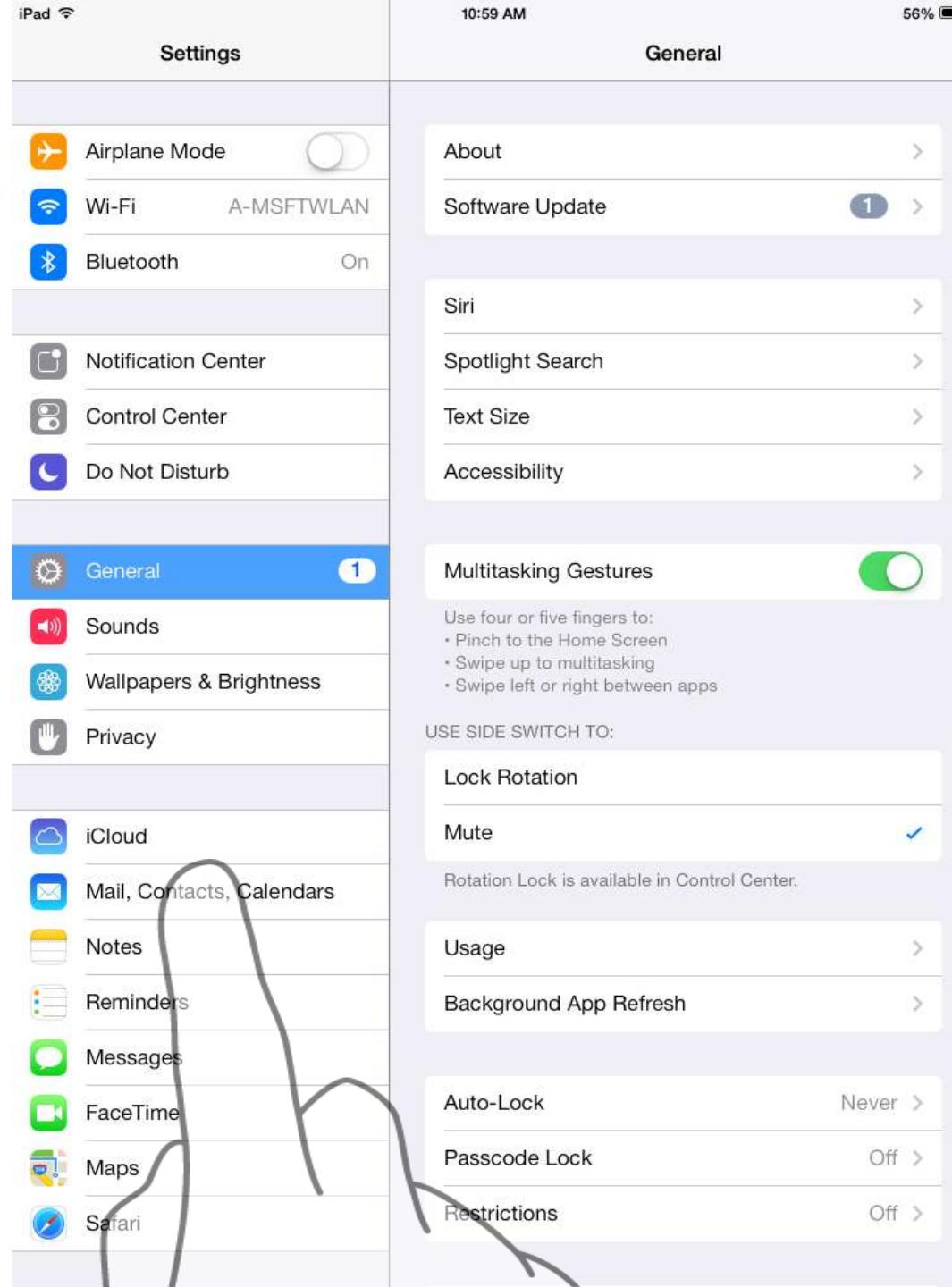
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Built-In Email App

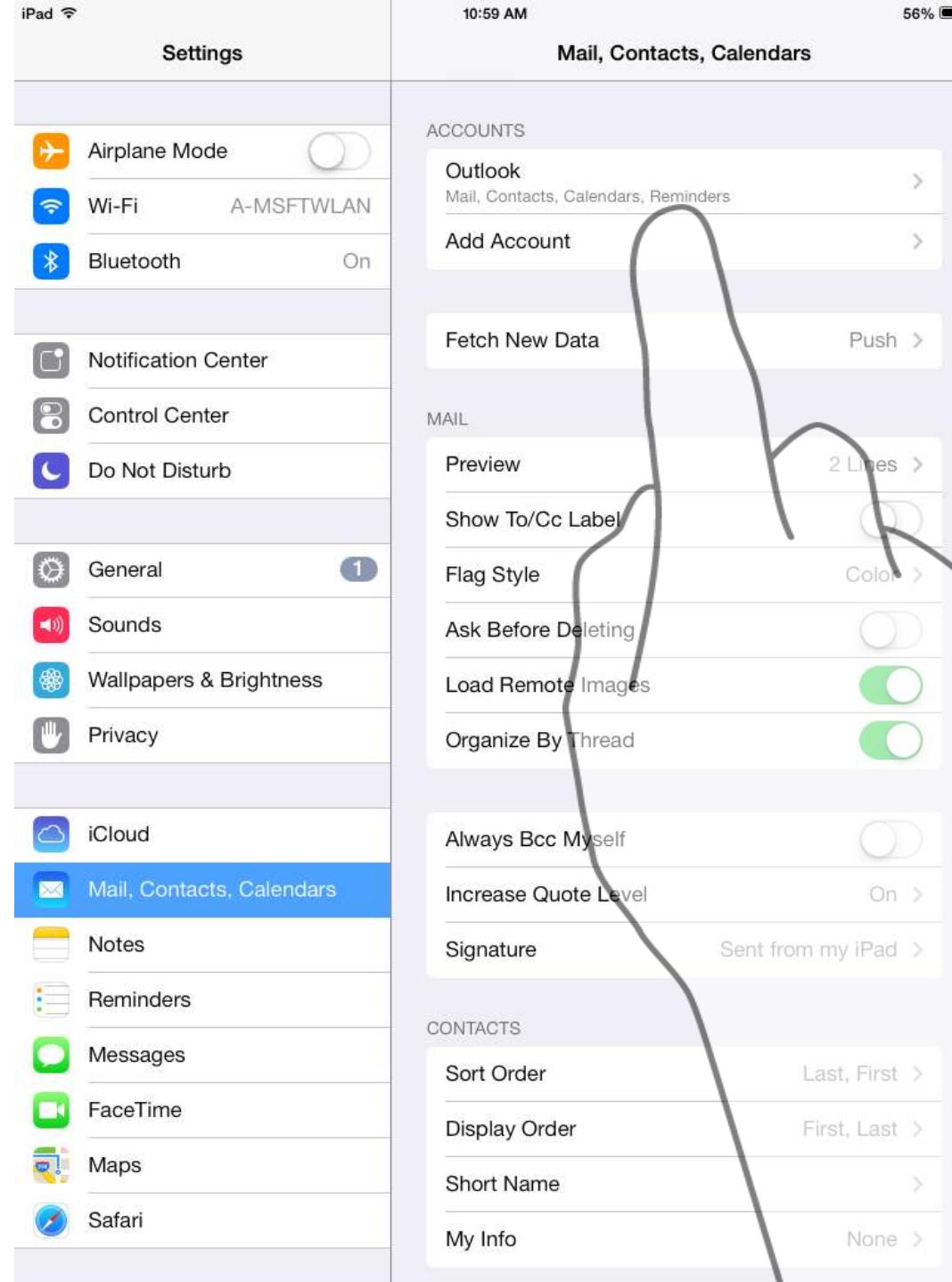


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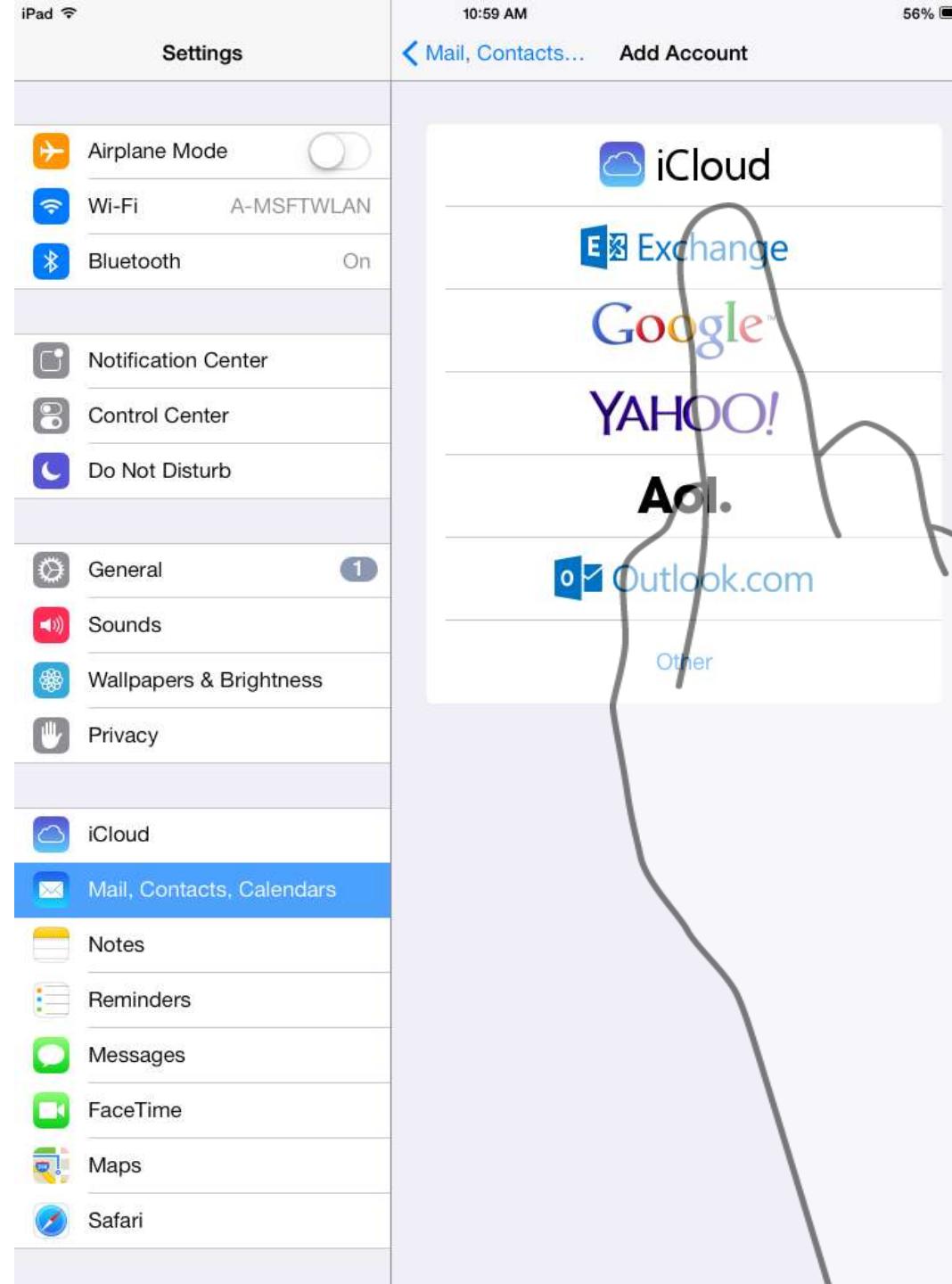
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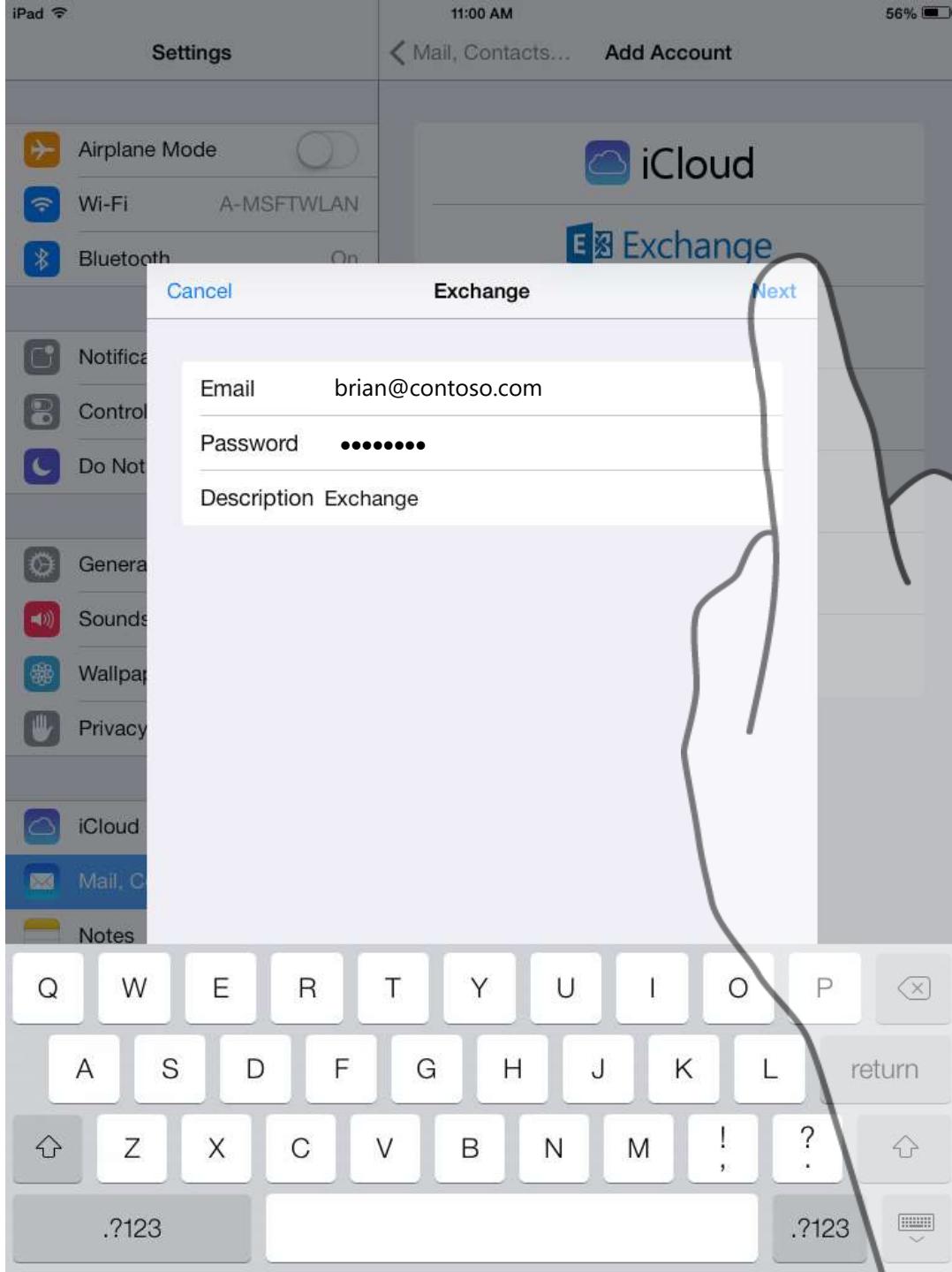
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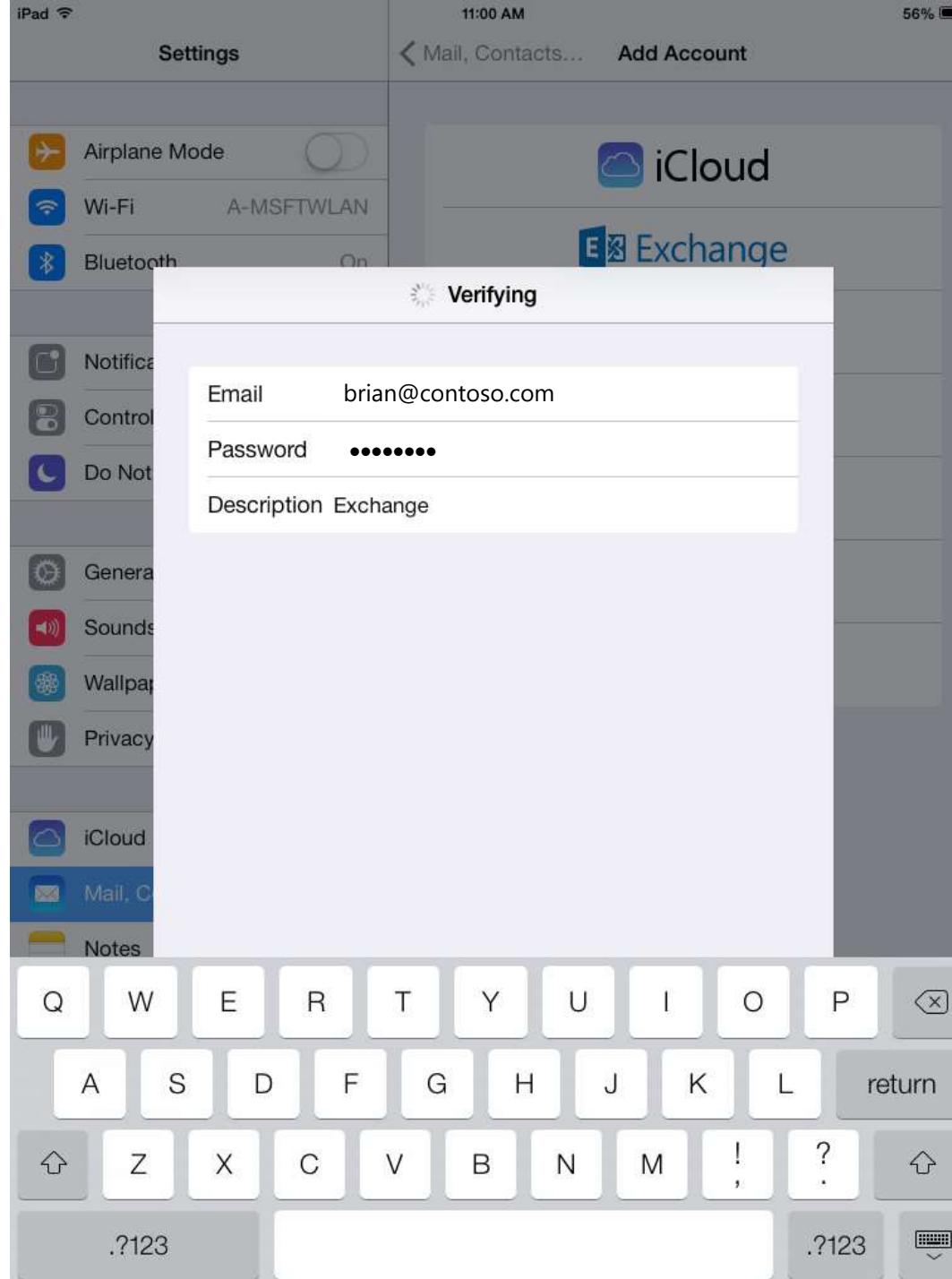
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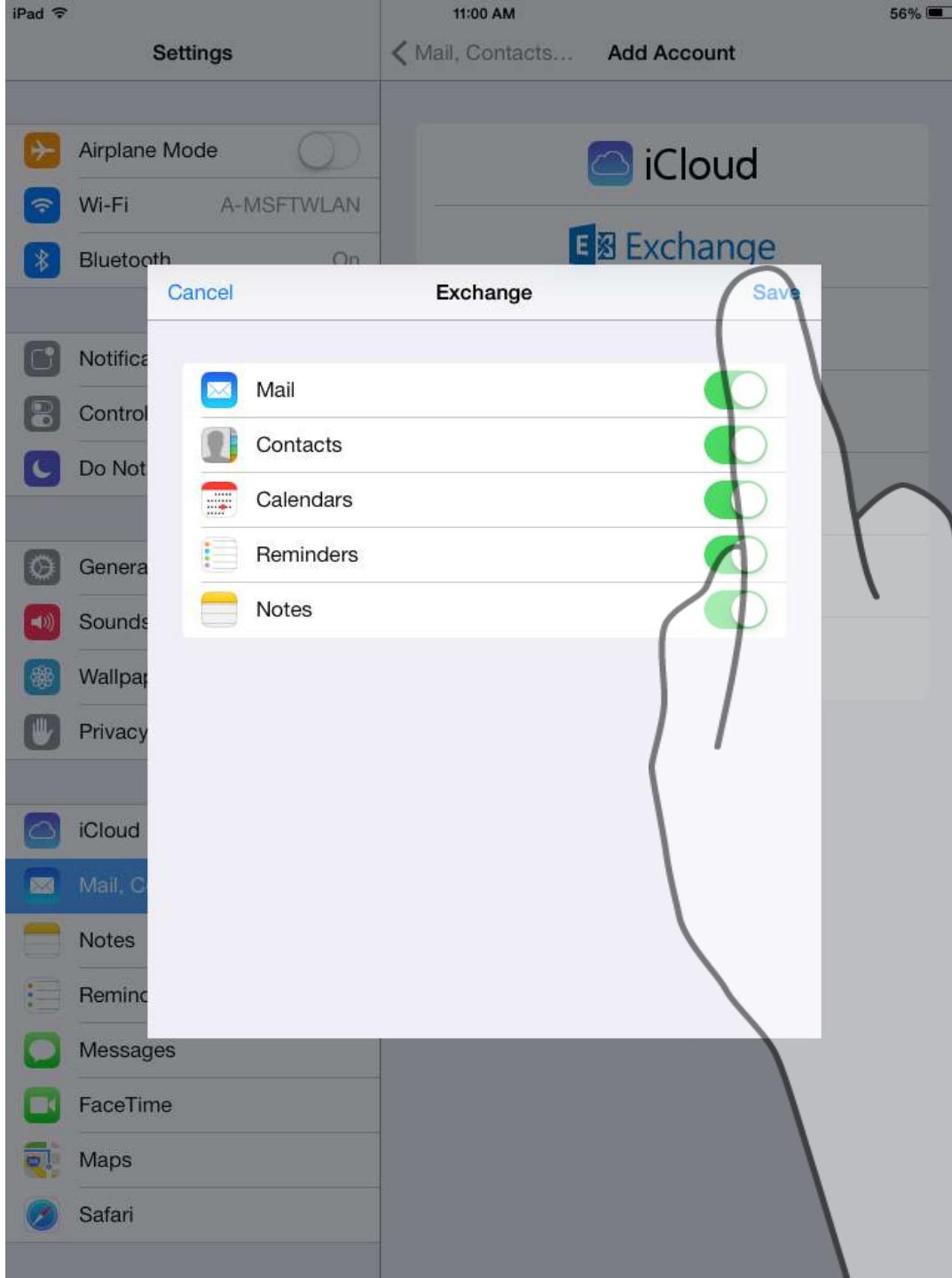


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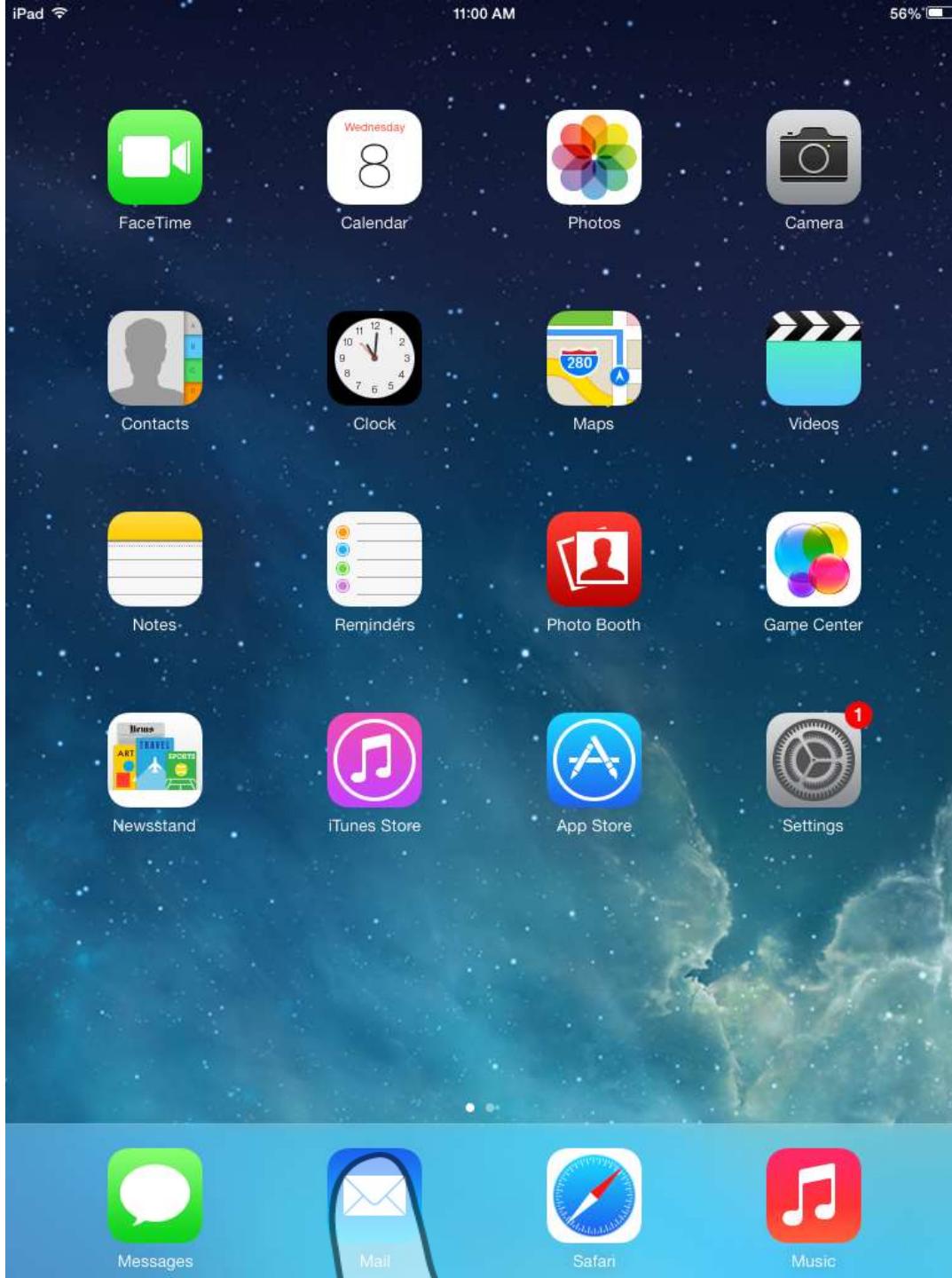


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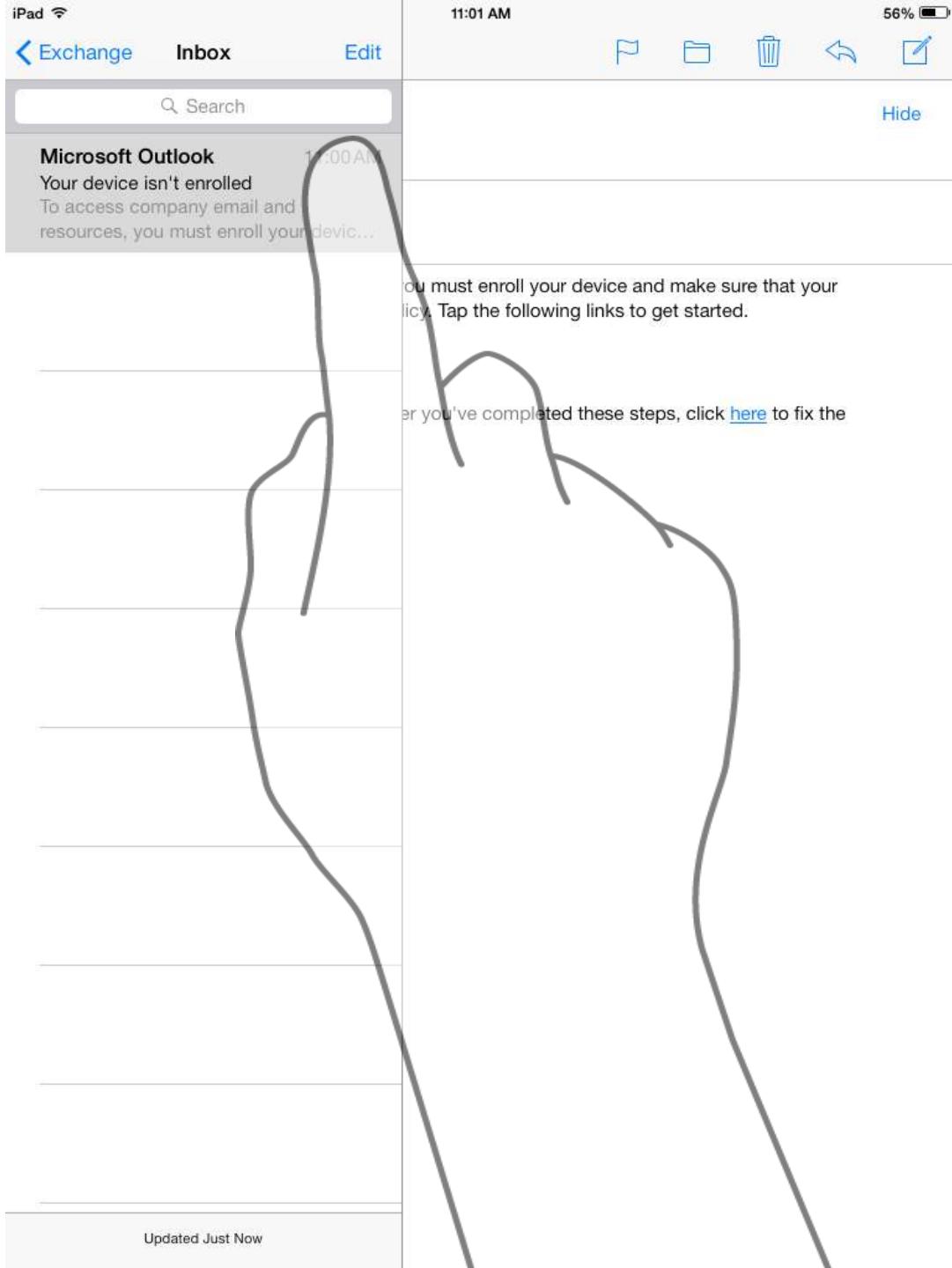




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Your device isn't enrolled

October 8, 2014 at 11:00 AM

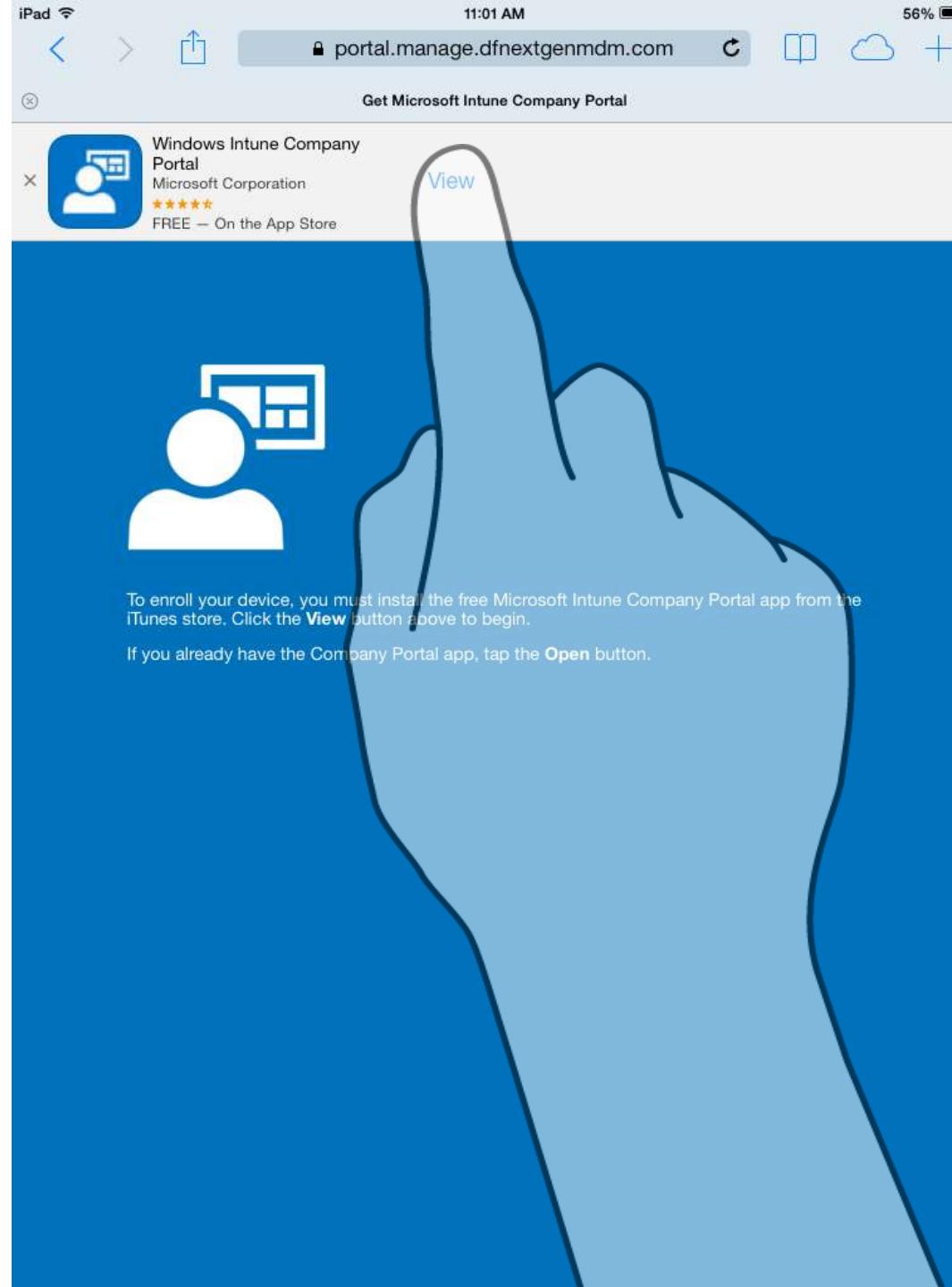
To access company email and resources, you must enroll your device and make sure that your device complies with company security policy. Tap the following links to get started.

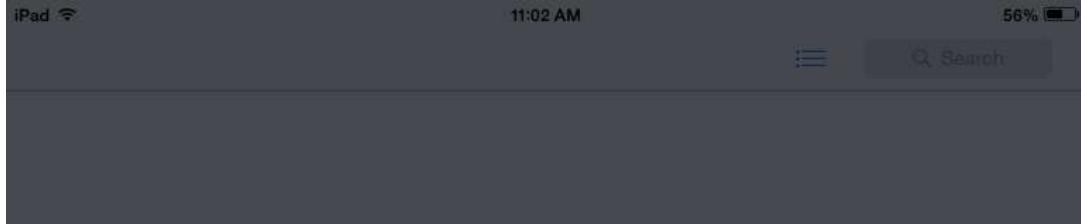
1. [Enroll device](#)
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- Screenshot 2:** Device details for 'Myers Family iPad' (Model: iPad Air, OS: 7.1). It shows options to 'Read Device', 'Remove Device', and 'Permanently Delete'.
- Screenshot 3:** Device details for 'Windows Phone (W...)' (Original Name: windows-phone, Model: Lumia 950, OS: Windows Phone 8). It shows options to 'Read Device', 'Remove Device', and 'Permanently Delete'.

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The Company Portal app helps you search, browse and install apps made available to you by your organization through the Windows Intune online service. Apps can be installed without requiring a connection to your

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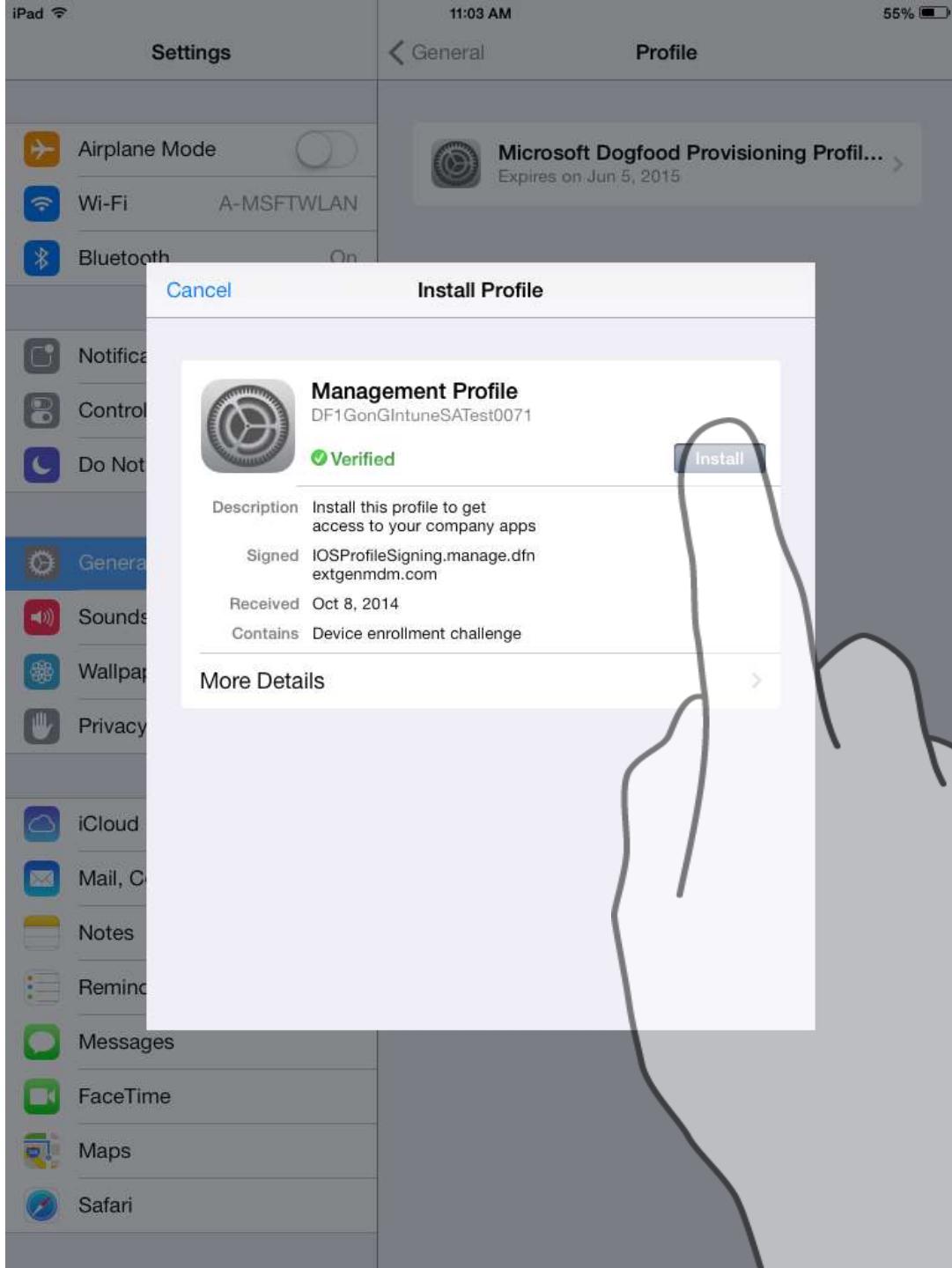
Adding Device...

IW USER 3 [Sign out](#)

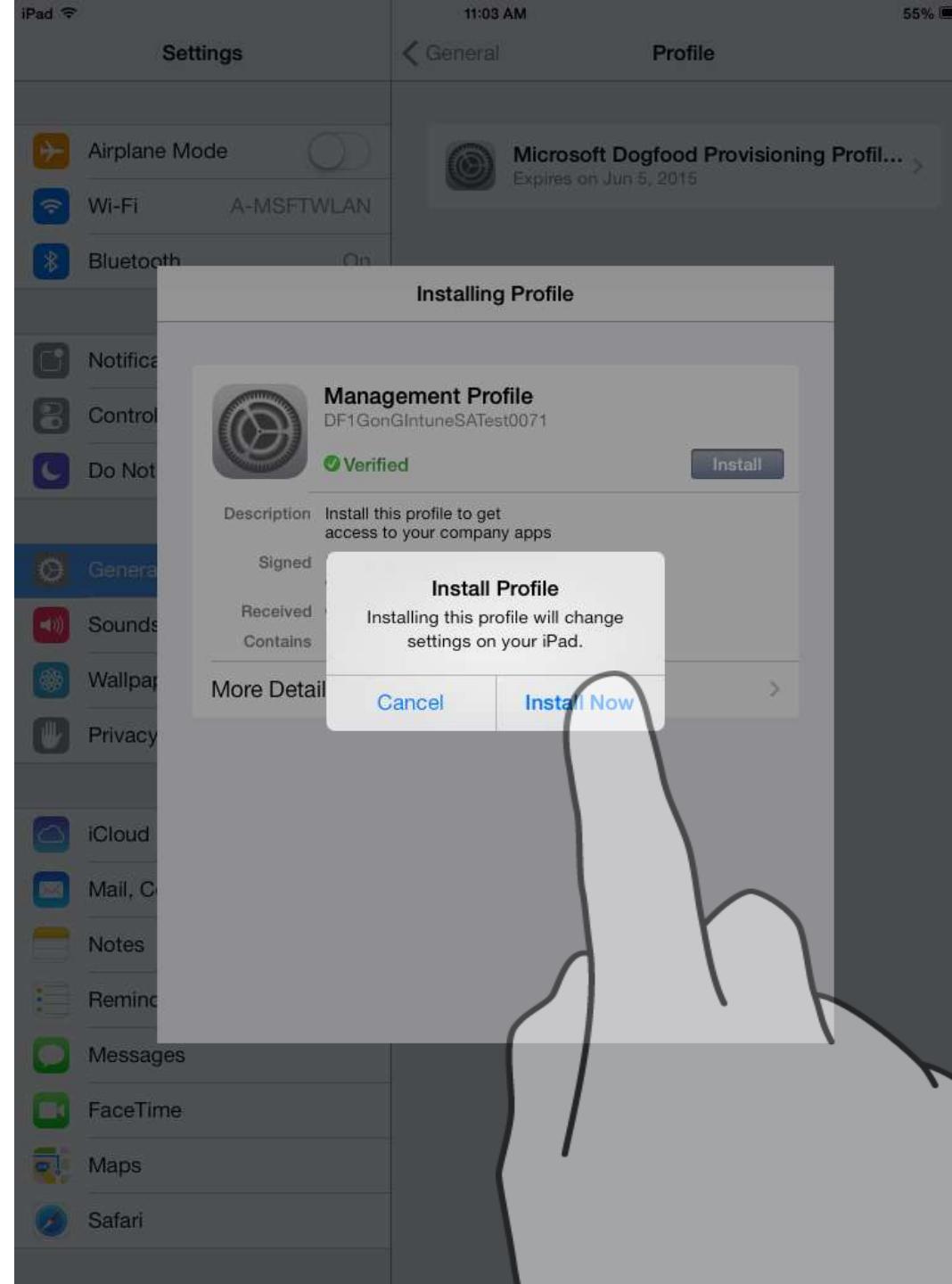
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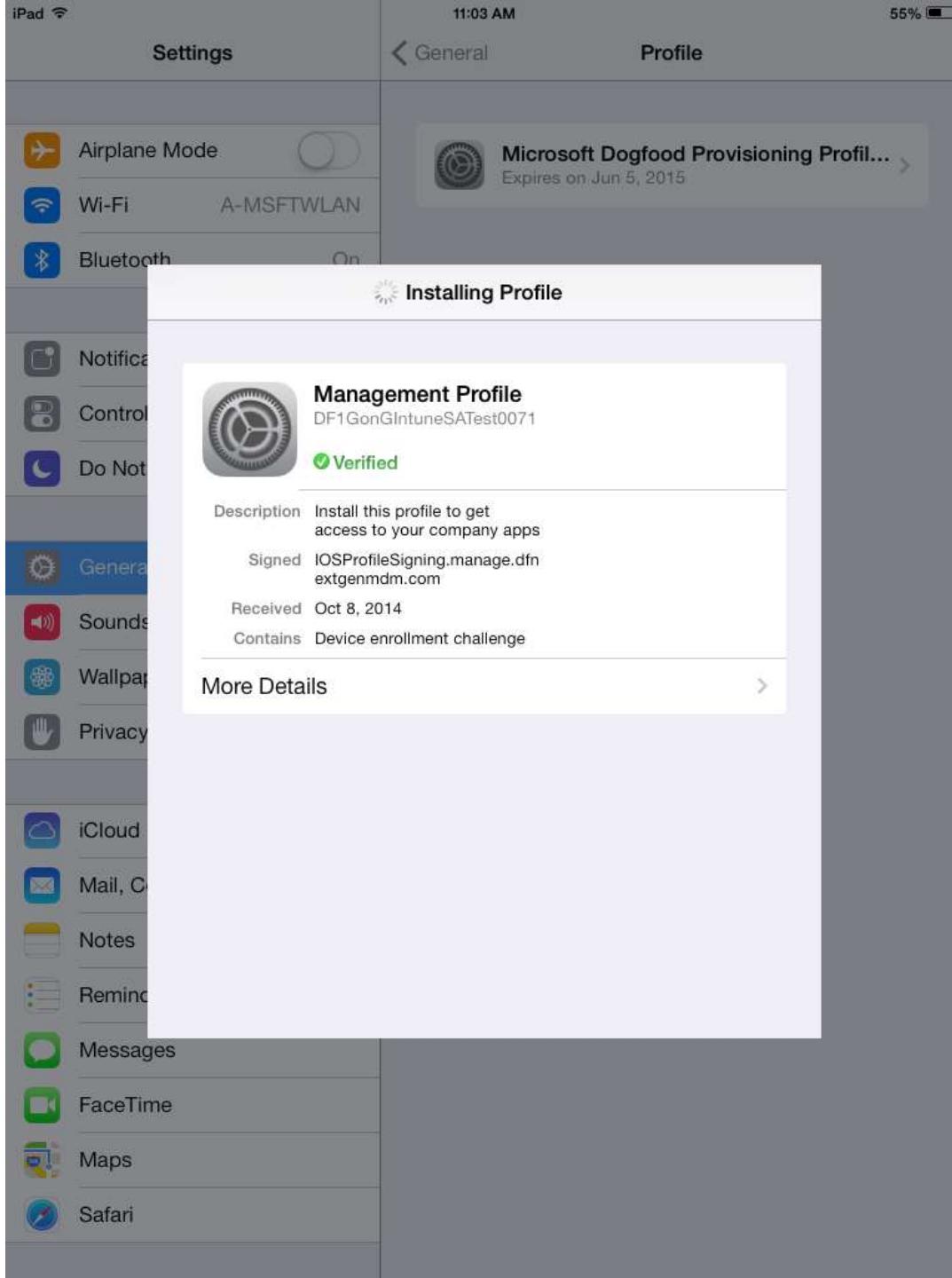
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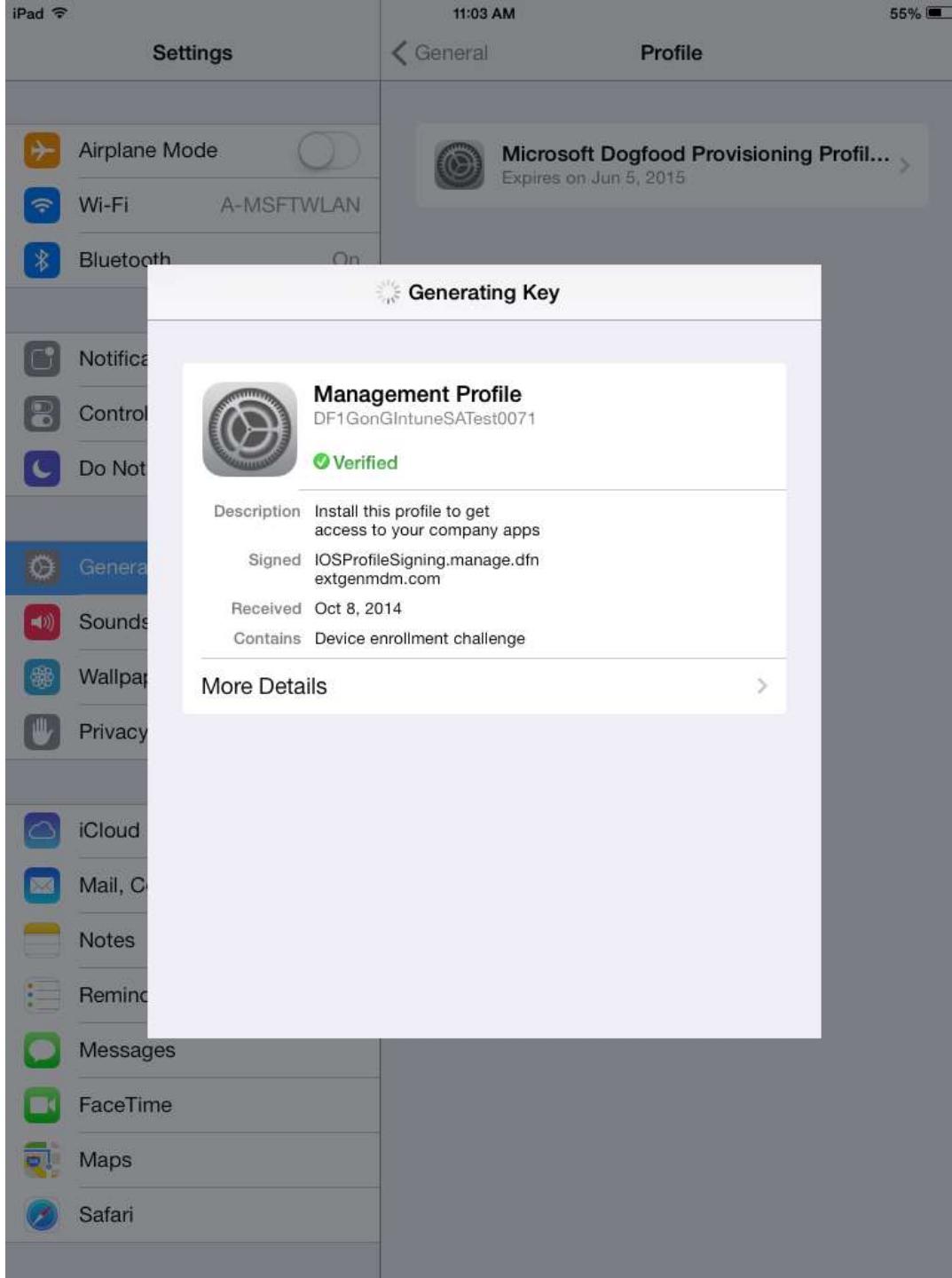


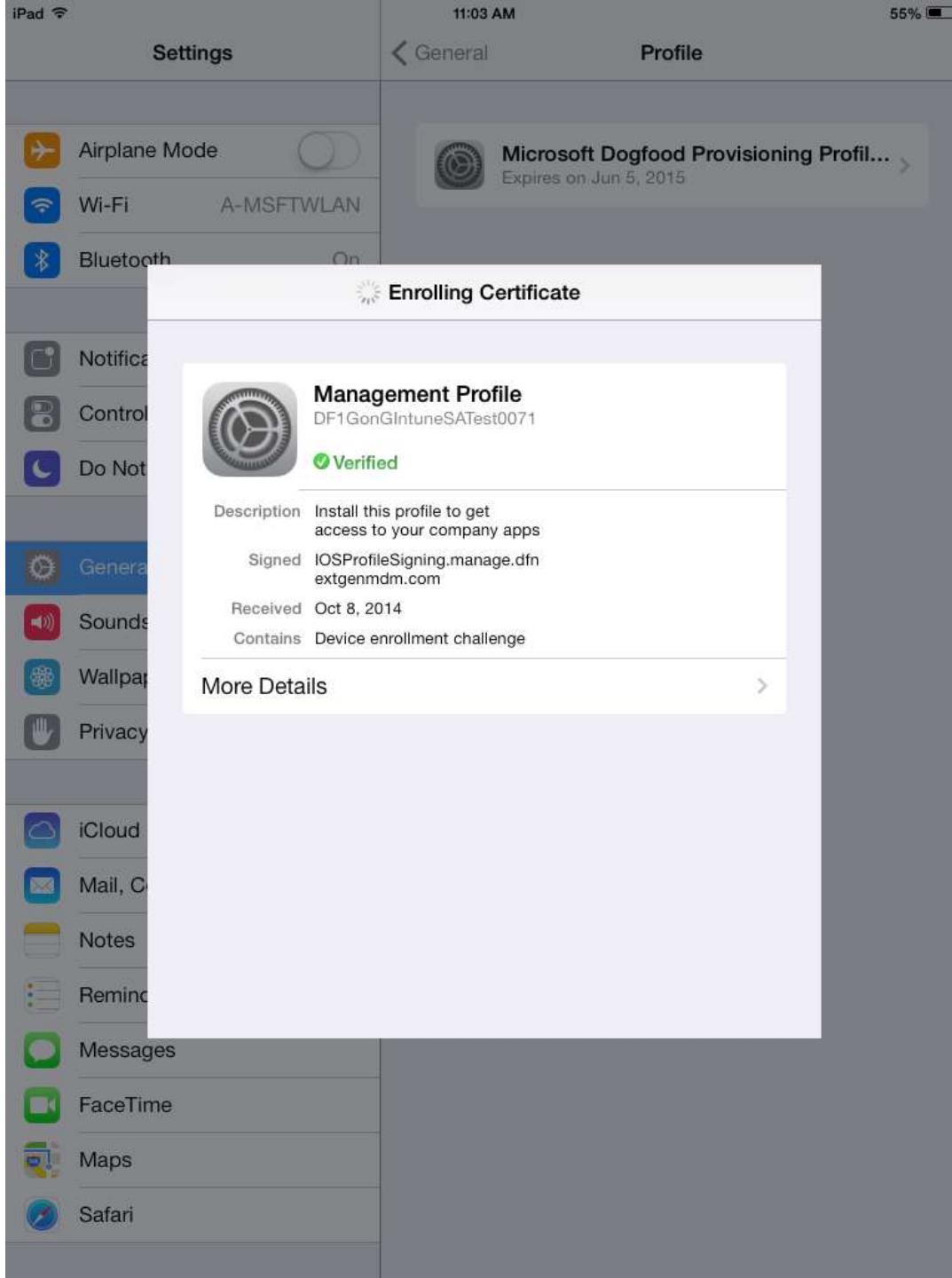
EAS



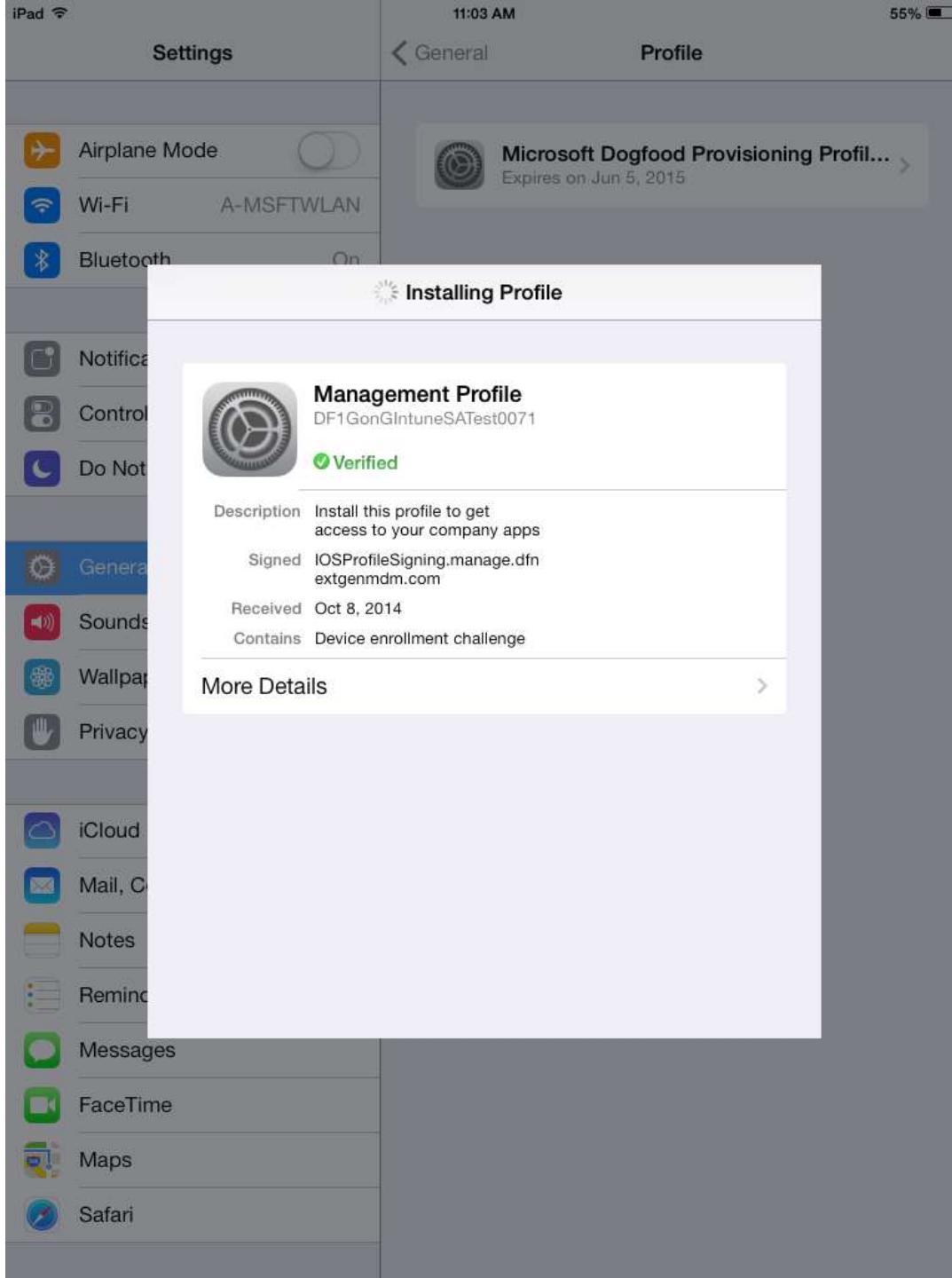


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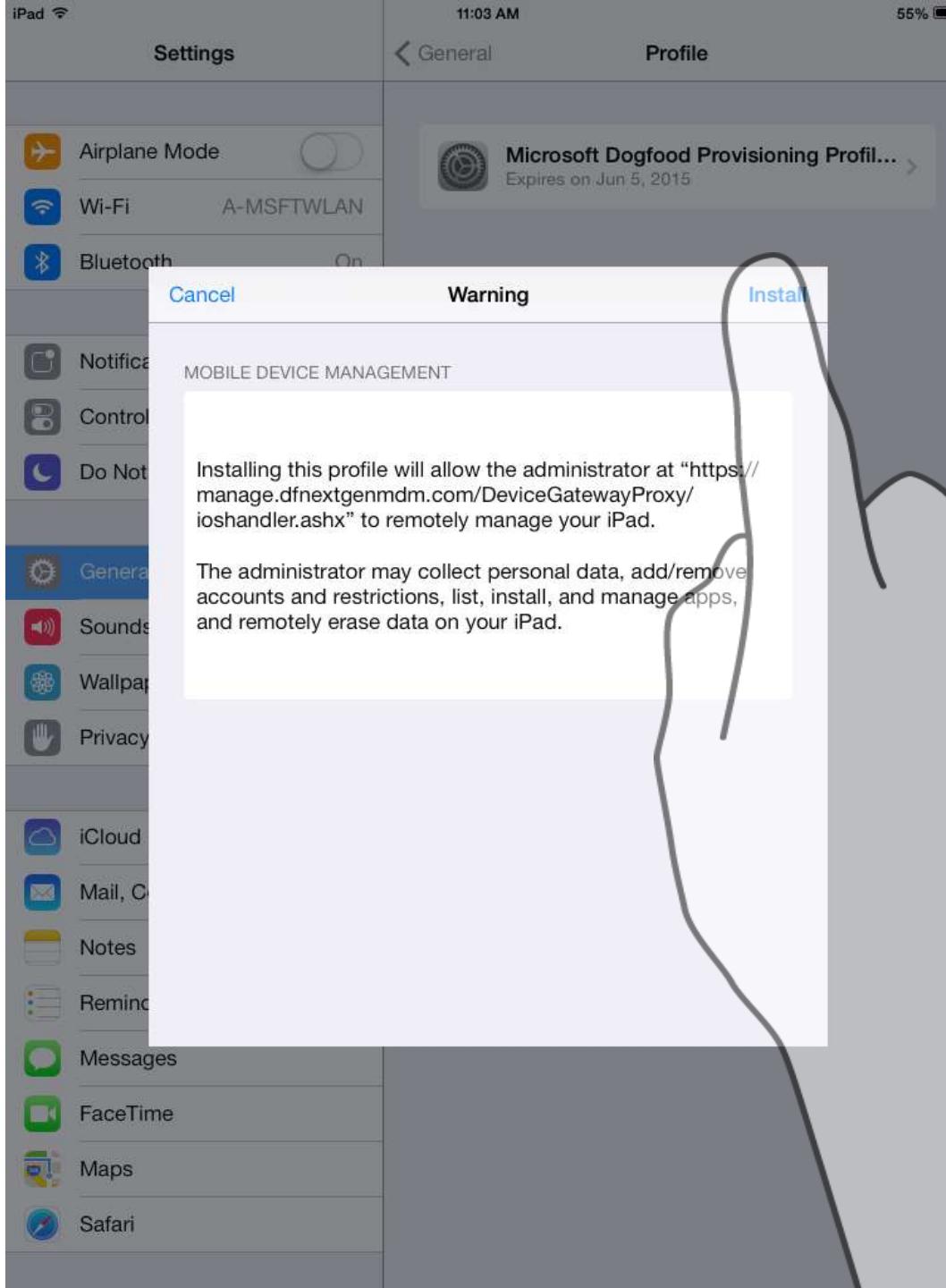


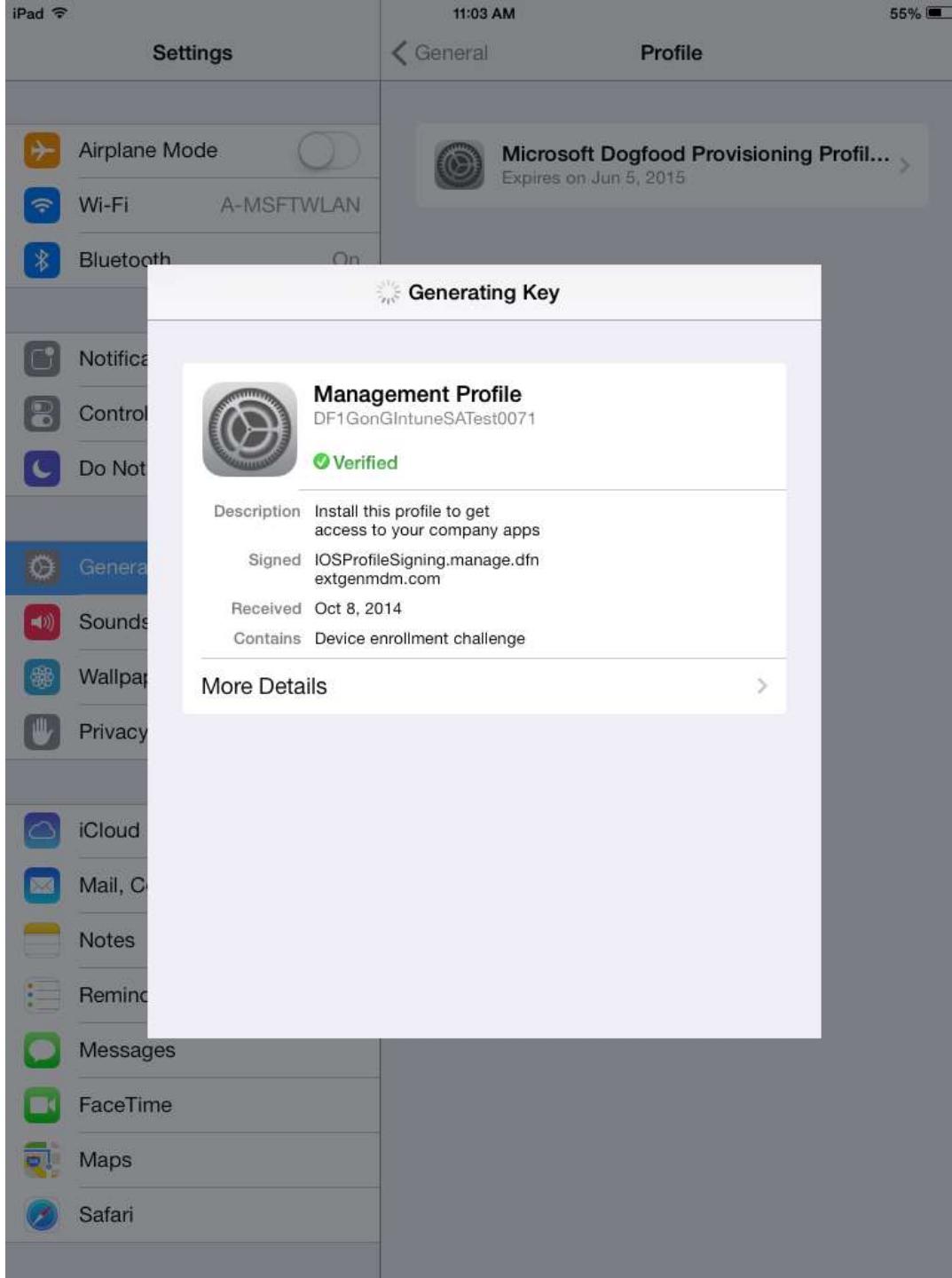
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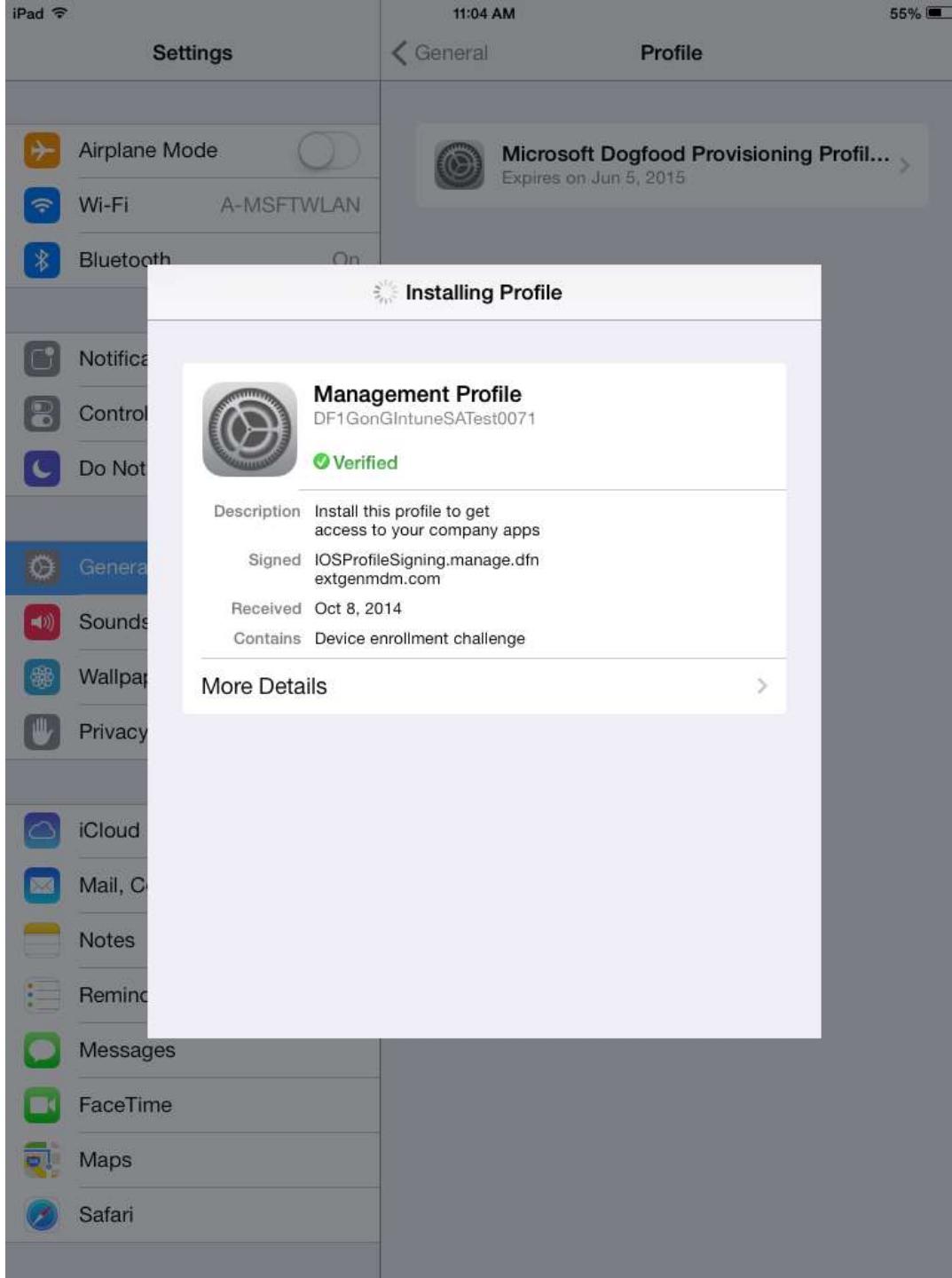
EAS

EAS

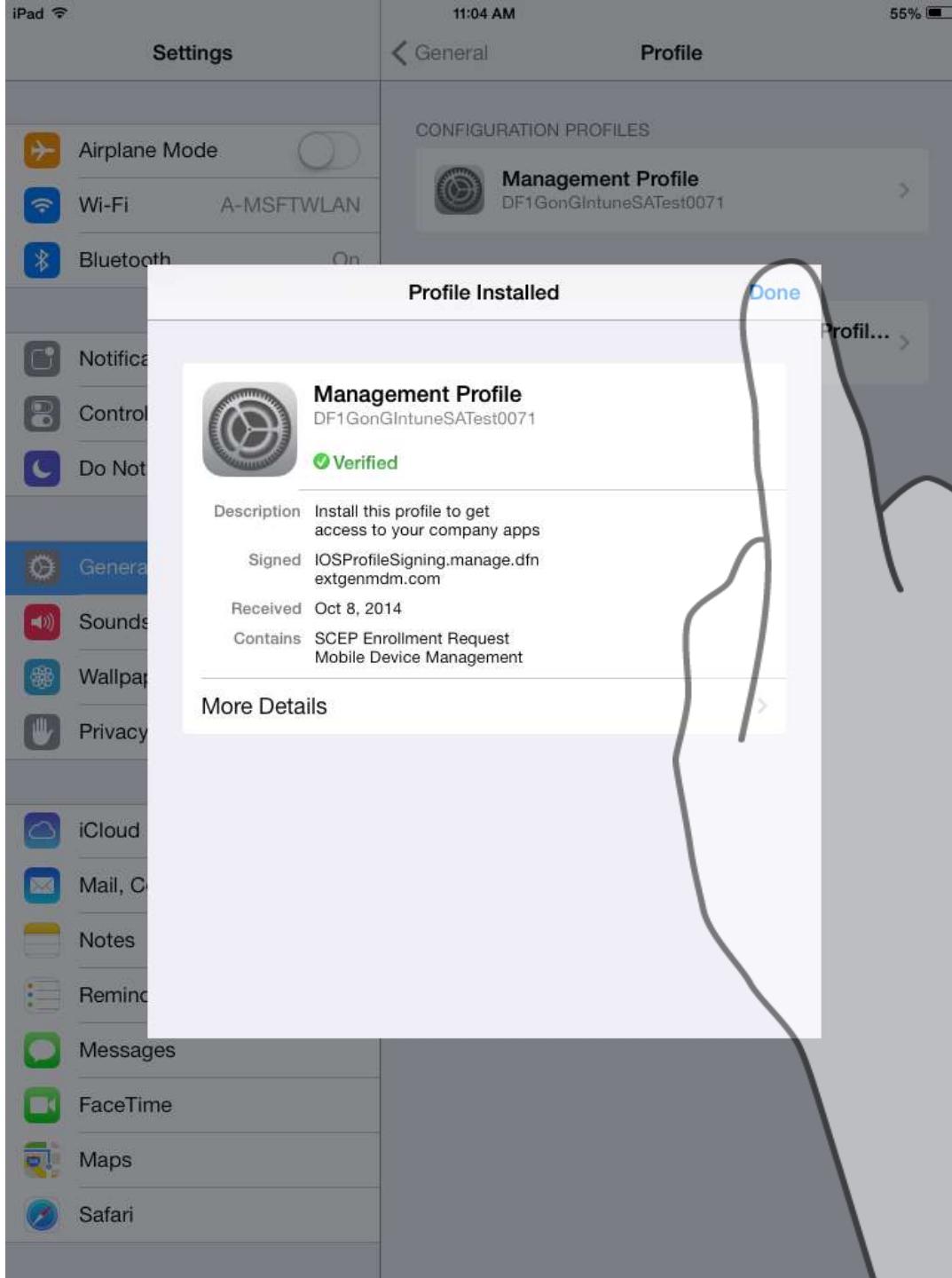




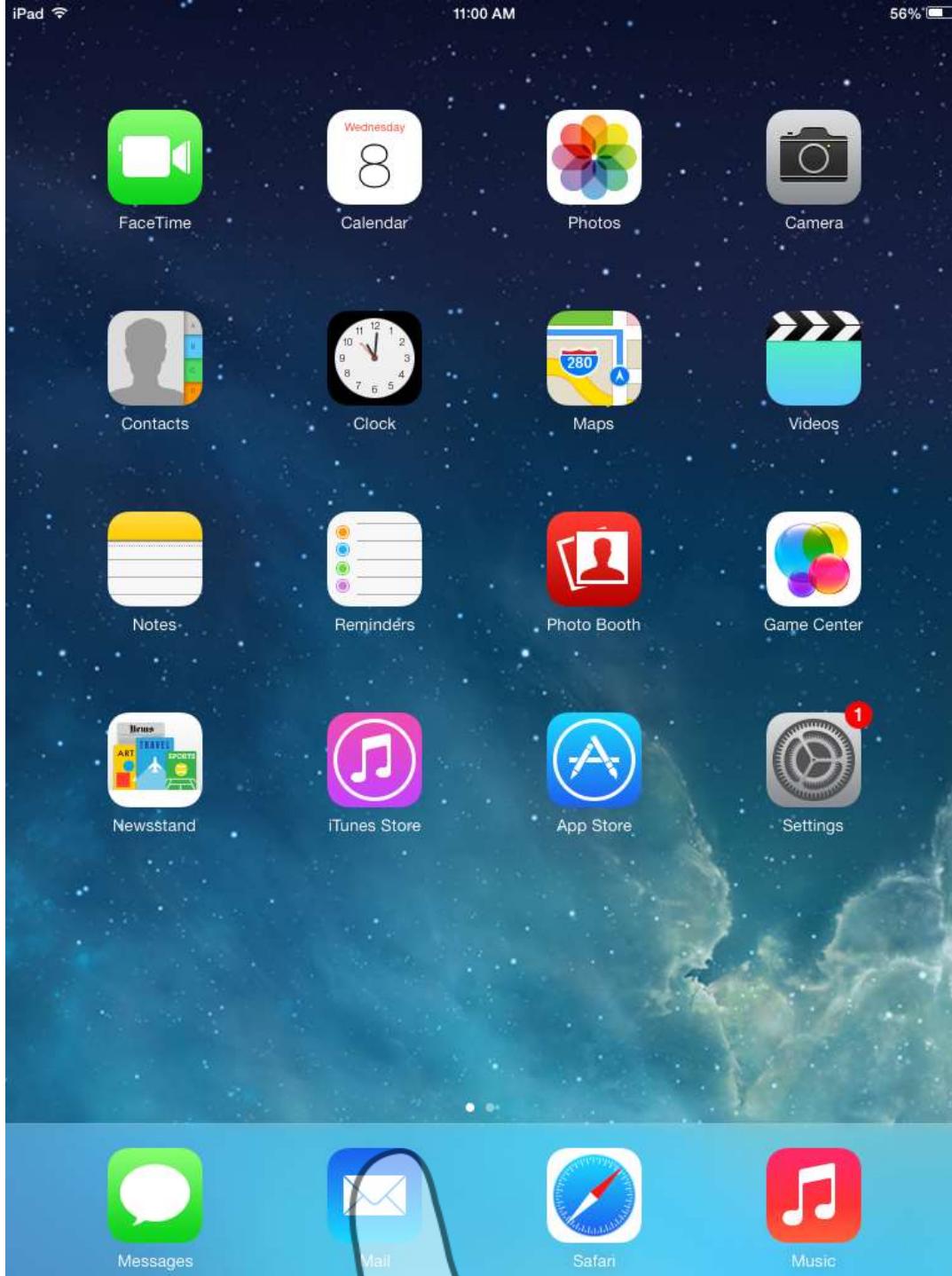
EAS



EAS



EAS



EAS

InboxHide

EAS

From: Microsoft Outlook >

To: IW User 3 >

Your device isn't enrolled

October 8, 2014 at 11:00 AM

To access company email and resources, you must enroll your device and make sure that your device complies with company security policy. Tap the following links to get started.

1. [Enroll device](#)
2. [Check device compliance status](#)

If you can't access email a few minutes after you've completed these steps, click [here](#) to fix the problem.



iPad

Exchange **Inbox** Edit

Search

IW User 3 9/26/14
Test
Sent from my iPad

Abby Motley 9/25/14
test6
This message has no content.

● Abby Motley 9/24/14
test5
This message has no content.

● Abby Motley 9/24/14
test4
This message has no content.

Abby Motley 9/24/14
test3
This message has no content.

Abby Motley 9/24/14
test2
Test2

Updated Just Now
2 Unread

11:56 AM 46%

Message Selected

EAS

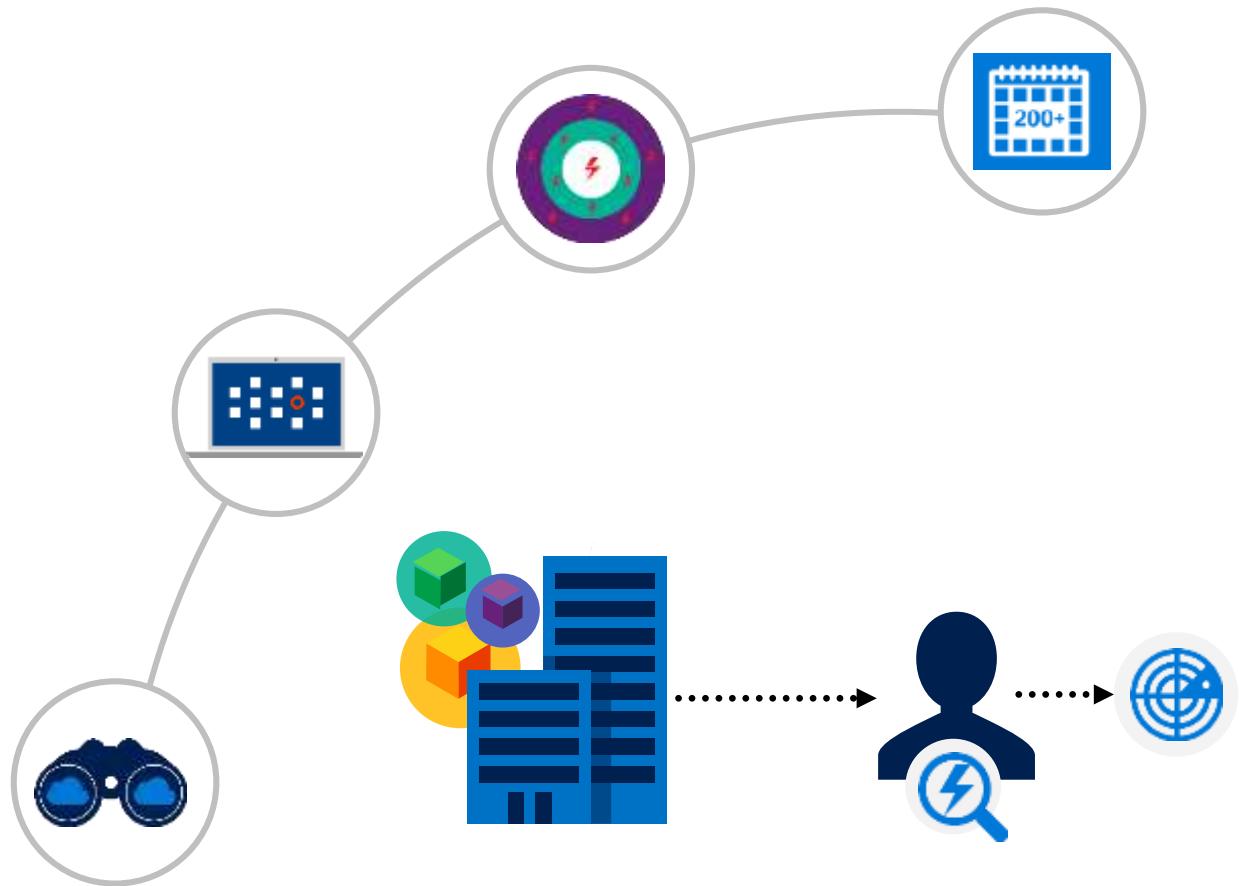
Microsoft Advanced Threat Analytics



DETECT ATTACKS BEFORE THEY CAUSE DAMAGE

Microsoft Advanced Threat Analytics

- ➔ Identifies advanced persistent threats (APTs) on-premises using User and Entity Behavioral Analytics
- ➔ Detects suspicious user and entity behavior with machine learning
- ➔ Detects malicious attacks (i.e. Pass the Hash, Pass the Ticket)
- ➔ Provides a simple attack timeline with clear and relevant attack information



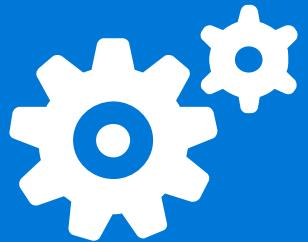
Focus on what is important fast

Detect threats fast
with Behavioral
Analytics



No need to create rules or policies, deploy agents, or monitor a flood of security reports. The intelligence needed is ready to analyze and continuously learning.

Adapt as fast as
your enemies



ATA continuously learns from the organizational entity behavior (users, devices, and resources) and adjusts itself to reflect the changes in your rapidly evolving enterprise.

Focus on what is
important fast
using the simple
attack timeline



The attack timeline is a clear, efficient, and convenient feed that surfaces the right things on a timeline, giving you the power of perspective on the "who-what-when-and how" of your enterprise. It also provides recommendations for next steps

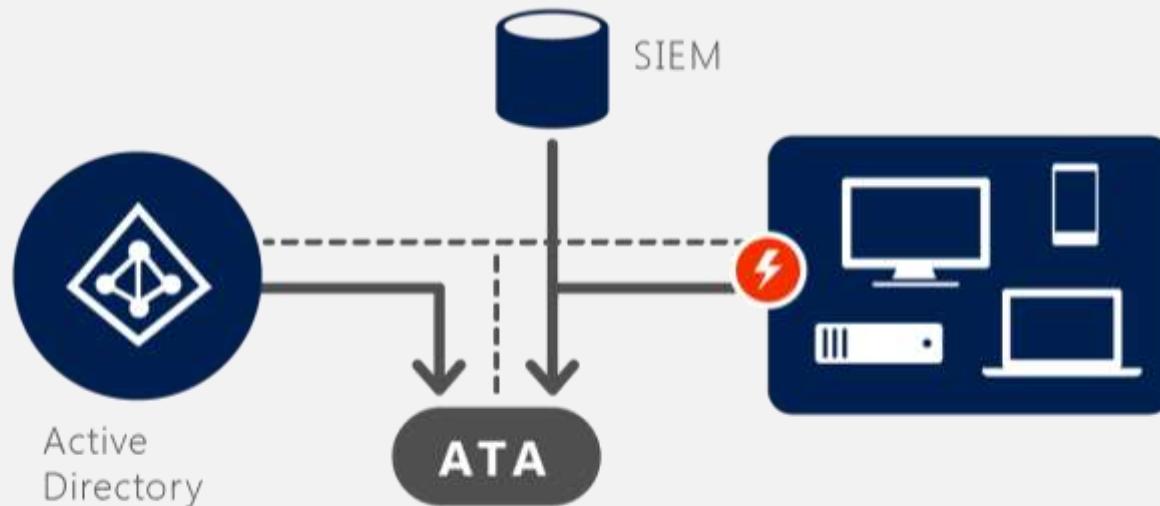
Reduce the fatigue
of false positives



Alerts only happen once suspicious activities are contextually aggregated, not only comparing the entity's behavior to its own behavior, but also to the profiles of other entities in its interaction path.

How Microsoft Advanced Threat Analytics works

1 Analyze

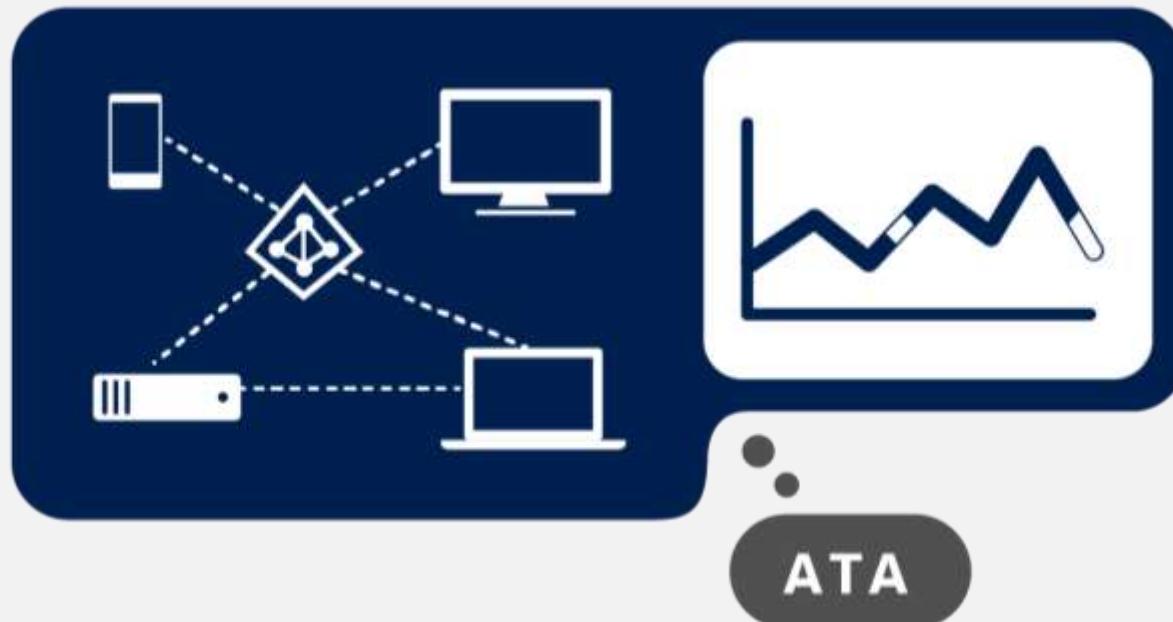


After installation:

- Simple non-intrusive port mirroring, or deployed directly onto domain controllers
- Remains invisible to the attackers
- Analyzes all Active Directory network traffic
- Collects relevant events from SIEM and information from Active Directory (titles, groups membership, and more)

How Microsoft Advanced Threat Analytics works

2 Learn



ATA:

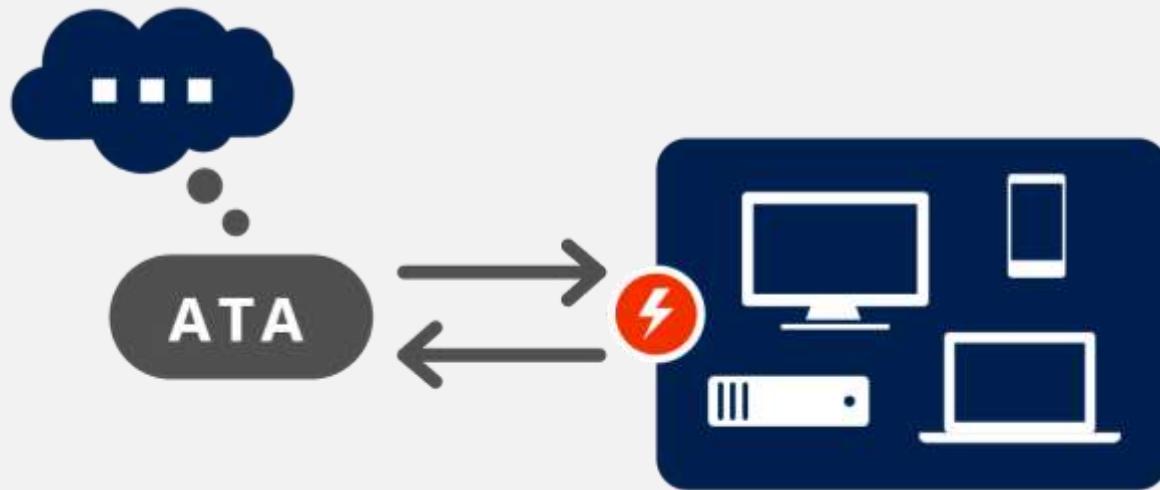
- Automatically starts learning and profiling entity behavior
- Identifies normal behavior for entities
- Learns continuously to update the activities of the users, devices, and resources

What is entity?

Entity represents users, devices, or resources

How Microsoft Advanced Threat Analytics works

3 Detect



Microsoft Advanced Threat Analytics:

- Looks for abnormal behavior and identifies suspicious activities
- Only raises red flags if abnormal activities are contextually aggregated
- Leverages world-class security research to detect security risks and attacks in near real-time based on attackers Tactics, Techniques, and Procedures (TTPs)

ATA not only compares the entity's behavior to its own, but also to the behavior of entities in its interaction path.

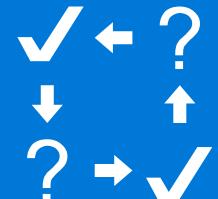
How Microsoft Advanced Threat Analytics works

4 Alert

ATA reports all suspicious activities on a simple, functional, actionable attack timeline



ATA identifies
Who?
What?
When?
How?

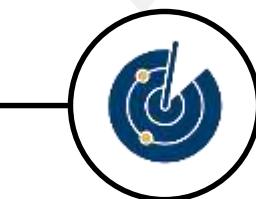


For each suspicious activity, ATA provides recommendations for the investigation and remediation



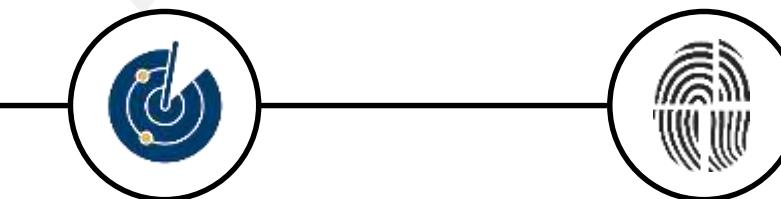
ATA detects a wide range of suspicious activities

Abnormal resource access
Account enumeration
Net Session enumeration
DNS enumeration

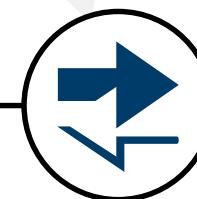


Reconnaissance

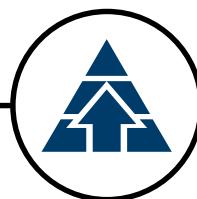
Abnormal authentication requests
Abnormal resource access
Pass-the-Ticket
Pass-the-Hash
Overpass-the-Hash



Compromised credential



Lateral movement



Privilege escalation



Domain dominance

Abnormal working hours
Brute force using NTLM, Kerberos or LDAP
Sensitive accounts exposed in plain text authentication
Service accounts exposed in plain text authentication
Honey Token account suspicious activities
Unusual protocol implementation
Malicious Data Protection Private Information (DPAPI) Request

MS14-068 exploit (Forged PAC)
MS11-013 exploit (Silver PAC)

Skeleton key malware
Golden ticket
Remote execution
Malicious replication requests

Q1 Quarterly Report.xlsx

All documents



Summary List Timeline Map Settings

Q1 Quarterly Report.xlsx



Shared

April 23, 2015

Expires

June 21, 2016

40
views
13 users

Michael Adams
Mark Adams
Katrina Redding
Joy Lawman
Bill Isvan
Mike Keller
Klaas Pluck
Paul Jensen
Yi Xu
...

9
denied
one user

Bryan Swan

4
days
since last activity

Apr 29, 2015 10:51 AM
Apr 28, 2015 10:41 AM
Apr 28, 2015 10:26 AM
Apr 27, 2015 10:59 AM
—

April 4 - May 3, 2015 - 40 viewed, 9 denied

April

4

5

6

7

8

9

10

11

12

13

14

15

16

17

18

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28

29

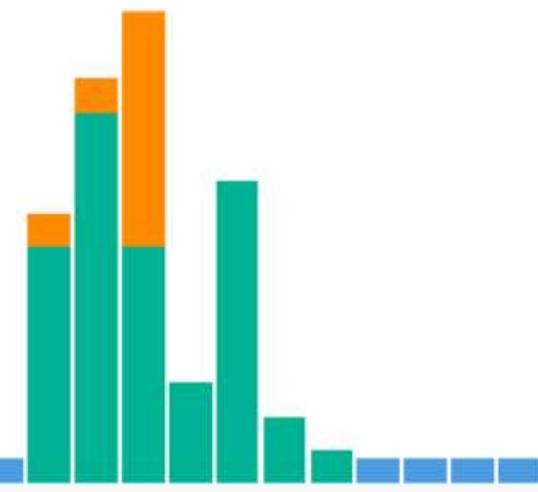
30

1

2

3

May



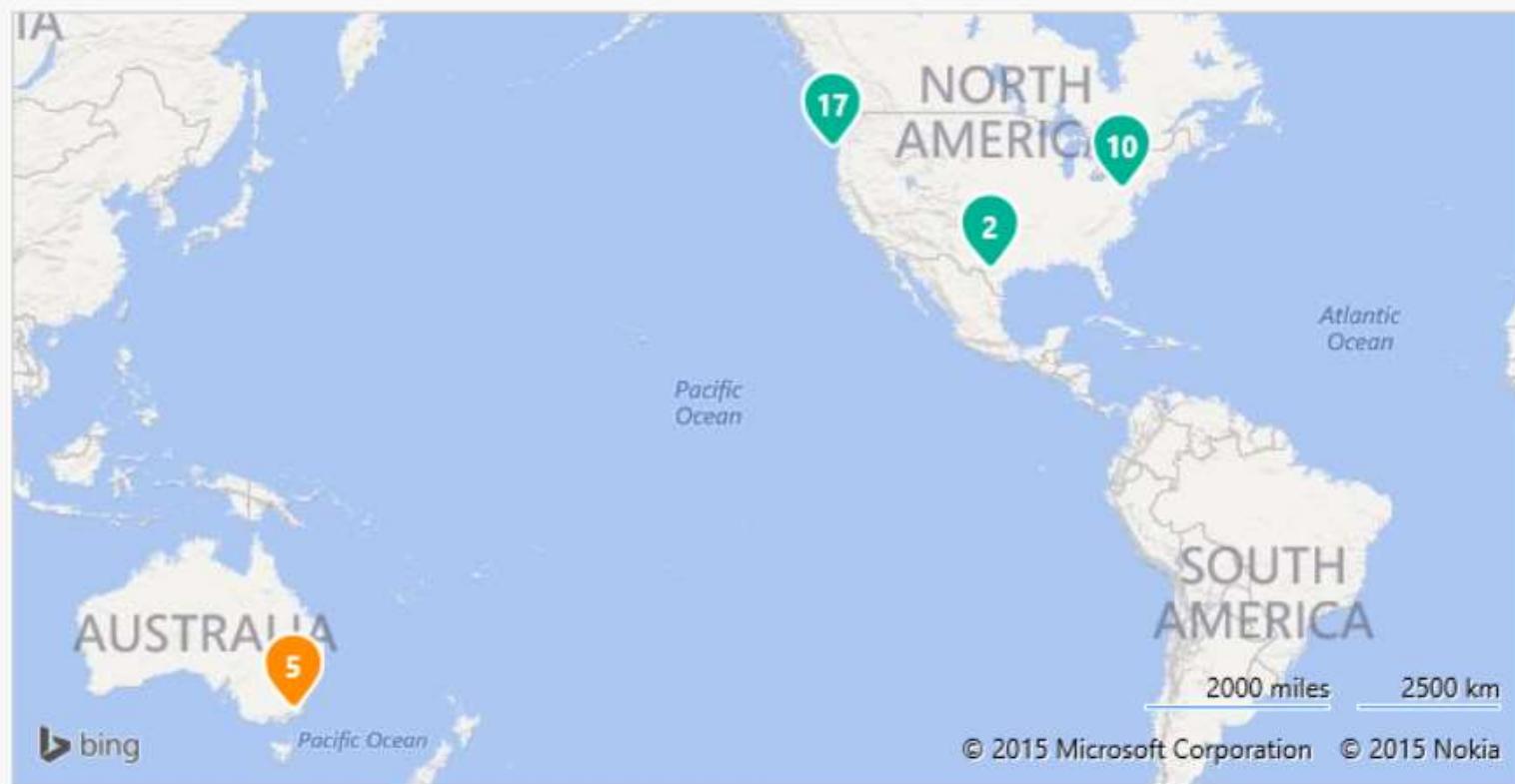
Name

Status

Date ▲

Mark Adams	Viewed	Apr 23, 2015 12:14 PM
Klaas Pluck	Viewed	Apr 23, 2015 12:20 PM
Bryan Swan	Denied	Apr 23, 2015 12:21 PM
Bill Isvan	Viewed	Apr 23, 2015 12:24 PM

Worldwide - 40 viewed, 9 denied



United States

Name	Status	Date ▲
Mark Adams	Viewed	Apr 23, 2015 12:14 PM
Klaas Pluck	Viewed	Apr 23, 2015 12:20 PM

Classify, Label, Protect

Classify, Label, Protect

Automated classification

Document1 - Word

File Home Insert Design Layout References Mailings Review View Tell me what you want to do... Avi Bar-el Share

Cut Copy Format Painter

Font: Calibri (Body) Size: 11 **B** *I* U ~~abc~~ ^{X₂} ^{X²} ~~A~~ ~~ab~~ ~~A~~ ~~A~~ ~~A~~ ~~A~~

Paragraph: **AaBbCcDd** *AaBbCcDd* AaBbCcDd AaBbCcDd AaBbCcDd

Sensitivity level: Confidential

Classified Automatically
This document was classified automatically as Confidential (Reason: credit card information)

Hi Bob,
Here's the customer credit card numbers that you asked for:

Visa: 4539 6962 7832 4402
Expires: 2/2018

MC: 5167 3095 6226 1332
Expires: 3/2017

Find ab Replace Select Editing Protection

Confidential

Classify, Label, Protect

Recommended classification

Document1 - Word

File Home Insert Design Layout References Mailings Review View Tell me what you want to do... Avi Bar-el Share

Cut Copy Format Painter Paste Clipboard

Font: Calibri (Body) 11pt A A Aa Aa B I U abe X² A ab Aa Paragraph: 1 Normal Intense E... Strong Quote Intense Q...

Sensitivity level: Undefined

Personal Public Internal Confidential Secret

Hi Holly,
Here's the expense report data you asked for:
Visa: 4539 6962 7832 4402
Expires: 2/2018

MC: 5167 3095 6226 1332
Expires: 3/2017

Recommended sensitivity
We suggest that you set this data as **Confidential** (Reason: Credit Card information)

[Tell me more](#)

Find Replace Select Protection

Classify, Label, Protect

Manual classification

A screenshot of Microsoft Word showing the ribbon menu and the 'Protection' tab selected. The ribbon tabs include File, Home, Insert, Design, Layout, References, Mailings, Review, View, and a search bar. On the far right of the ribbon, there are buttons for 'Avi Barak', 'Share', 'Find', 'Replace', 'Select', 'Editing', and 'Protection'. The 'Protection' tab has a lock icon and the word 'Confidential'. Below the ribbon, the status bar shows 'Sensitivity level: Confidential'. The main content area displays an email message:

Hi Bob,
Here's the customer credit card numbers that you asked for:

Visa: 4539 6962 7832 4402
Expires: 2/2018

MC: 5167 3095 6226 1332
Expires: 3/2017

The 'Protection' tab is expanded, showing classification levels: Personal, Public, Internal, Confidential (selected), and Secret. A dropdown menu for 'Secret' is open, showing 'All finance' and 'All employees'.

Classify, Label, Protect

Business justification required to re-classify

The screenshot shows the Microsoft Word ribbon with the 'Home' tab selected. The 'Protection' tab is also visible on the far right. A context menu is open over a document, with the 'Lowering Sensitivity level' option highlighted. A dialog box titled 'Lowering Sensitivity level' is displayed, asking for a reason to change the sensitivity level from 'Confidential' to 'Internal'. The second radio button in the list is selected. The main document area shows some sample text and credit card information.

Document1 - Word

Sensitivity level: Confidential

Lowering Sensitivity level

Please tell why you are lowering from "Confidential" to "Internal":

The data was something that it is not

I need to change it to perform a certain task

Please explain why:

Cancel OK

Classify, Label, Protect

Prevent edit, copy, print and save with Azure Rights Management integration

A screenshot of a Microsoft Word document titled "Document1 - Word". The ribbon menu is visible at the top, showing "File", "Home", "Insert", "Design", "Layout", "References", "Mailings", "Review", and "View". The "Home" tab is selected. The status bar at the bottom left shows "Sensitivity level: Confidential". A yellow banner across the middle of the screen states: "This document is protected and will be expired in 4 days. You can't Reclassify, Export, Edit or Print it." A cursor arrow points to the "Details" link in this banner. A modal dialog box titled "Details" is displayed on the right, containing information about the document's protection. It shows the email address "bob.rotter@microsoft.com" and a list of permissions with their status: View: Yes, Edit: No, Copy: No, Print: No, Save: No, Export: No, Full control: No, and Access the document programmatically: No. It also displays an expiration date of "01-25-2016". At the bottom of the dialog are "Tell me more" and "OK" buttons.

Document1 - Word

Sensitivity level: Confidential

This document is protected and will be expired in 4 days. You can't Reclassify, Export, Edit or Print it. [Details](#)

Details

You are viewing this document as:
bob.rotter@microsoft.com

You have the following permissions:

View:	Yes
Edit:	No
Copy:	No
Print:	No
Save:	No
Export:	No
Full control:	No
Access the document programmatically:	No

Expiration date: 01-25-2016

OK

A dark, atmospheric scene of a hallway with a reception desk and a bulletin board.

SHADOW IT

SOFTPEDEIA™
www.softpedia.com

Cloud App Discovery

Cloud App Discovery

Settings Filter Quickstart

Applications: Count

04/15 04/17 04/18 04/20 04/21

TOTAL APPS

0 MANAGED 0 UNMANAGED 0

Users

04/15 04/17 04/18 04/19 04/20 04/21

TOTAL USERS

2

Applications

Cloud App Discovery

Filter

Search apps

APP	CATEGORY	STATUS	USERS	WEB REQS	DATA VOLU...	FILES UPD...	FILES D...	LAST ACCESSED (UTC)
Office 365 SharePoint Online	Content Management	Managed	1	508	170.1 MB	0	0	04/21/16
Office 365 Exchange Online	Mail	Managed	2	689	17.1 MB	0	0	04/21/16
Windows Azure	Developer Services	Managed	1	493	11.4 MB	0	0	04/20/16
Active Directory Access Panel	Data Services	Managed	1	9	1.4 MB	0	0	04/20/16
Yammer	Social	Unmanaged	1	25	1.1 MB	0	0	04/21/16
Olark	Collaboration	Unmanaged	1	8	89.2 KB	0	0	04/20/16
Disqus	Productivity	Unmanaged	1	6	67.2 KB	0	0	04/21/16
GlobalSign	Security	Unmanaged	1	2	6.8 KB	0	0	04/21/16
LinkedIn	Social	Unmanaged	1	0	3.4 KB	0	0	04/20/16

Sensi
Internal

Cloud App Security



Cloud Discovery

All Cloud Discovery logs you manually uploaded are processed.

Global view
Last updated: Apr 21, 2018 | Last 90 days | Actions | Settings

Dashboard Discovered apps IP addresses Users

512 Discovered apps 12 Risky apps 2K Cloud users 3K IP addresses

App scores

Sanctioned apps

Top apps

	Traffic
Microsoft OneDrive	226.1 GB
Office 365	9.5 GB
Microsoft Exchange Online	9.2 GB
Microsoft Dynamics	6.2 GB
Microsoft Azure	4.2 GB

View all apps

Top risky apps

	Traffic
MEGA	12.3 MB
IcalledU	97.5 KB
Marketwired	90.8 KB
Voxox	78.4 KB
MLB	64.8 KB

View all risky apps

Top users

No users

Top IP addresses

No IP addresses

View all users

View all IP addresses

Cloud Discovery > Microsoft OneDrive Cloud storage

Global View
Last updated: Apr 21, 2016 ▾ Last 90 days ▾

Use Info Top IP addresses Top users Alerts

Overview

1K

Total active users

3K

Total IP addresses

88.7 GB

Upload traffic

137.4 GB

Download traffic

355K

Total transactions

Users



Total traffic



Active source IP addresses



Cloud Discovery > Microsoft OneDrive cloud storage

Global view
Last updated: Apr 21, 2016 ▾ Last 90 days ▾[Use](#) [Info](#) [Top IP addresses](#) [Top users](#) [Alerts](#)Go to a specific user: [Go to user...](#)

Top 100 users (by use)

User	Upload	Traffic	Transactions	Last seen (UTC)	Filter
Lexi@contoso.com	2.1 MB	197.3 MB	5K	Mar 29, 2016	
Vanessa@contoso.com	24.0 MB	70.9 MB	5K	Mar 10, 2016	
Rodrique@contoso.com	776.5 KB	20.3 MB	5K	Mar 10, 2016	
Audriana@contoso.com	17.3 MB	72.9 MB	5K	Mar 10, 2016	
Sofia@contoso.com	21.9 MB	65.0 MB	5K	Mar 31, 2016	
Lillianna@contoso.com	24.7 MB	78.7 MB	4K	Mar 10, 2016	
Dane@contoso.com	25.0 MB	177.6 MB	4K	Mar 15, 2016	
Janiyah@contoso.com	21.1 MB	199.6 MB	4K	Mar 10, 2016	
Mckinley@contoso.com	25.3 MB	96.0 MB	4K	Mar 21, 2016	
Alisha@contoso.com	8.3 MB	167.7 MB	4K	Mar 10, 2016	
Esperanza@contoso.com	10.8 MB	37.2 MB	4K	Mar 10, 2016	

Cloud App Security Discover ▾ Investigate ▾ Control ▾ Alerts 41

Microsoft

Files

New policy from search New user notification

APP OWNER ACCESS LEVEL FILE TYPE VIOLATED POLICY Advanced

Microsoft OneDrive Select users... Select access level... Select type... Select policy...

1 - 7 of 7 files.

File name	Owner	App	Collaborators	Last modified
Shared with Everyone	leanna@acme.com	Microsoft OneDrive	1 collaborator	Oct 22, 2015
Payment schedule and details.xlsx	jaeden@acme.com	Microsoft OneDrive	1 collaborator	Oct 22, 2015
Test_file_for_DLP_test.docx	leanna@acme.com	Microsoft OneDrive	1 collaborator	Oct 22, 2015
ACMEL CORP	kamila@acme.com	Microsoft OneDrive	—	Aug 4, 2015
Test Files	kamila@acme.com	Microsoft OneDrive	—	Aug 4, 2015
Customers	adams@acme.com	Microsoft OneDrive	7 collaborators	—
DLP Project	adams@acme.com	Microsoft OneDrive	7 collaborators	—