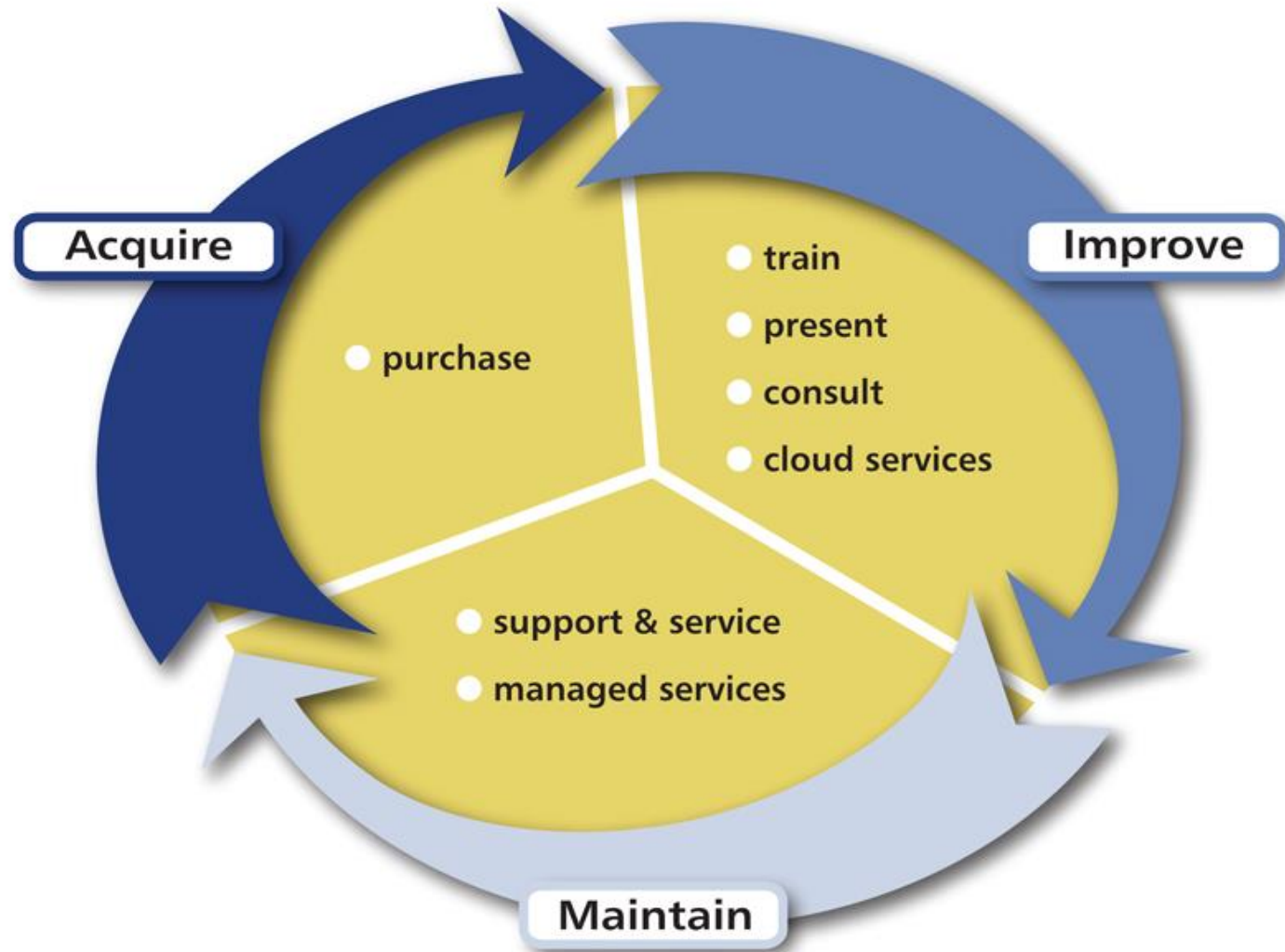


# WELCOME!

## Using Microsoft Office 365 for a Robust Mail and Conferencing System



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# Collect 'Learn Today' Cards

**What do you hope to learn today?**

**Please take a moment to fill out the yellow cards.**

**Our presenters will review the cards to ensure that we cover the topics/areas of interest.**

**We will collect them before we get started.**

**Thanks!**

# Agenda

- “Robust” software...what does that mean?
- What is Office 365
- Office 365 features
- Office 365 Plans
- Email security features

# Introduction

- Tony Paul Pugliese ([tpuglies@syssrc.com](mailto:tpuglies@syssrc.com))
- Over 30 years as Consulting Systems Engineer
- Focus on Email and Messaging systems since mid-1990s
  - Migrations from one mail system to another
  - Upgrades between versions within same mail platform
  - Linking together of disparate systems
  - Repairing if / when required
- Trend is that most organizations are now moving to cloud instead of upgrading in house.

# What is Robust Software??



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## “Robust” software... *(3 criteria)*

- Flexibility / completeness
- Software / Services combinations
- Handles faults gracefully

# What is Office 365?



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# What is Office 365?

*What do you know (or think you know)?  
(another APM!)*

# What is Office 365?



# “Robust” software... *(3 criteria)*

- Flexibility / completeness
- Software / Services combinations
- Handles faults gracefully

# What is Office 365?

- Office 365 is a SaaS solution and is one of several cloud solutions offered by Microsoft.
- Your connectivity to, and your use of, Office 365 and other Microsoft cloud services is flexible.
  - Subscribe to one service only or a suite of services (organization wide or per user)
  - Subscription plans offer various levels of features
  - On-premises and cloud identities can remain separate or can be integrated
  - On-premise services can be integrated with cloud services (Hybrid)

# What is Office 365?

Services offered...



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# What is Office 365?

MAIL + CALENDAR	SHARING + COLLABORATION	ENTERPRISE SOCIAL	UNIVERSAL COMMUNICATION	MICROSOFT OFFICE
<b>Exchange Office</b>	<b>OneDrive For Business + SharePoint</b>	<b>Modern Collaboration</b>	<b>Skype for Business</b>	<b>Office 365 ProPlus</b>
100GB Mailboxes 150MB Attachments	Unlimited Storage per user in OneDrive	Office Delve- surface content from anywhere	IM, Presence, HD Calling	Office for iPad and Android
Encrypted E-Mail	Sync App	Office 365 Video Portal	Host video conferences for 250 people	Real Time Co-Authoring Across Platforms
Scalable Unlimited Archives	Data Loss Prevention eDiscovery	Enterprise Social with Yammer	Skype Broadcasting for up to 10,000	Office Online (Browser)
eDiscovery Legal Hold DLP	Modern SharePoint Sites + Mobile App	Microsoft Teams (chat based workspace)	S4B for iPhone, Android and iPad	Office 2016 Mac + PC

Service Descriptions –

<https://technet.microsoft.com/en-us/library/office-365-service-descriptions.aspx>



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# “Robust” software... *(3 criteria)*

- Flexibility / completeness
- **Software / Services combinations**
- Handles faults gracefully

# What is Office 365?

	Office Apps (Word, Excel, PowerPoint, Outlook, etc)	Exchange Online	Security + Compliance, legal hold, DLP	Sharepoint Online	OneDrive for Business	Skype for Business	Teams	Yammer	Power BI Pro	Advanced Security, Voice, Analytics services
<b>Business Plans</b>										
Office 365 Business	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗
O365 Business Premium	✗	✓	✗	✓	✓	✓	✓	✓	✗	✗
O365 Business Essentials	✗	✓	✓	✓	✓	✓	✓	✓	✗	✗
<b>Enterprise Plans</b>										
Office Pro Plus	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗
Enterprise E1	✗	✓	✗	✓	✓	✓	✓	✓	✗	✗
Enterprise E3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
Enterprise E5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Government, Non-Profit, and Education plans also available



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# What is Office 365?

	Office Apps (Word, Excel, PowerPoint, Outlook, etc)	Exchange Online	Security + Compliance, legal hold, DLP	Sharepoint Online	OneDrive for Business	Skype for Business	Teams	Yammer	Power BI Pro	Advanced Security, Voice, Analytics services
<b>Business Plans</b>										
Office 365 Business	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗
O365 Business Premium	✗	✓	✗	✓	✓	✓	✓	✓	✗	✗
O365 Business Essentials	✗	✓	✓	✓	✓	✓	✓	✓	✗	✗
<b>Enterprise Plans</b>										
Office Pro Plus	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗
Enterprise E1	✗	✓	✗	✓	✓	✓	✓	✓	✗	✗
Enterprise E3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
Enterprise E5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Government, Non-Profit, and Education plans also available



# What is Office 365?

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Office 365 Business	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗
O365 Business Premium	✗	✓	✗	✓	✓	✓	✓	✓	✗	✗
O365 Business Essentials	✗	✓	✓	✓	✓	✓	✓	✓	✗	✗
<b>Enterprise Plans</b>										
Office Pro Plus	✓	✗	✗	✗	✓	✗	✗	✗	✗	✗
Enterprise E1	✗	✓	✗	✓	✓	✓	✓	✓	✗	✗
Enterprise E3	✓	✓	✓	✓	✓	✓	✓	✓	✓	✗
Enterprise E5	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Government, Non-Profit, and Education plans also available

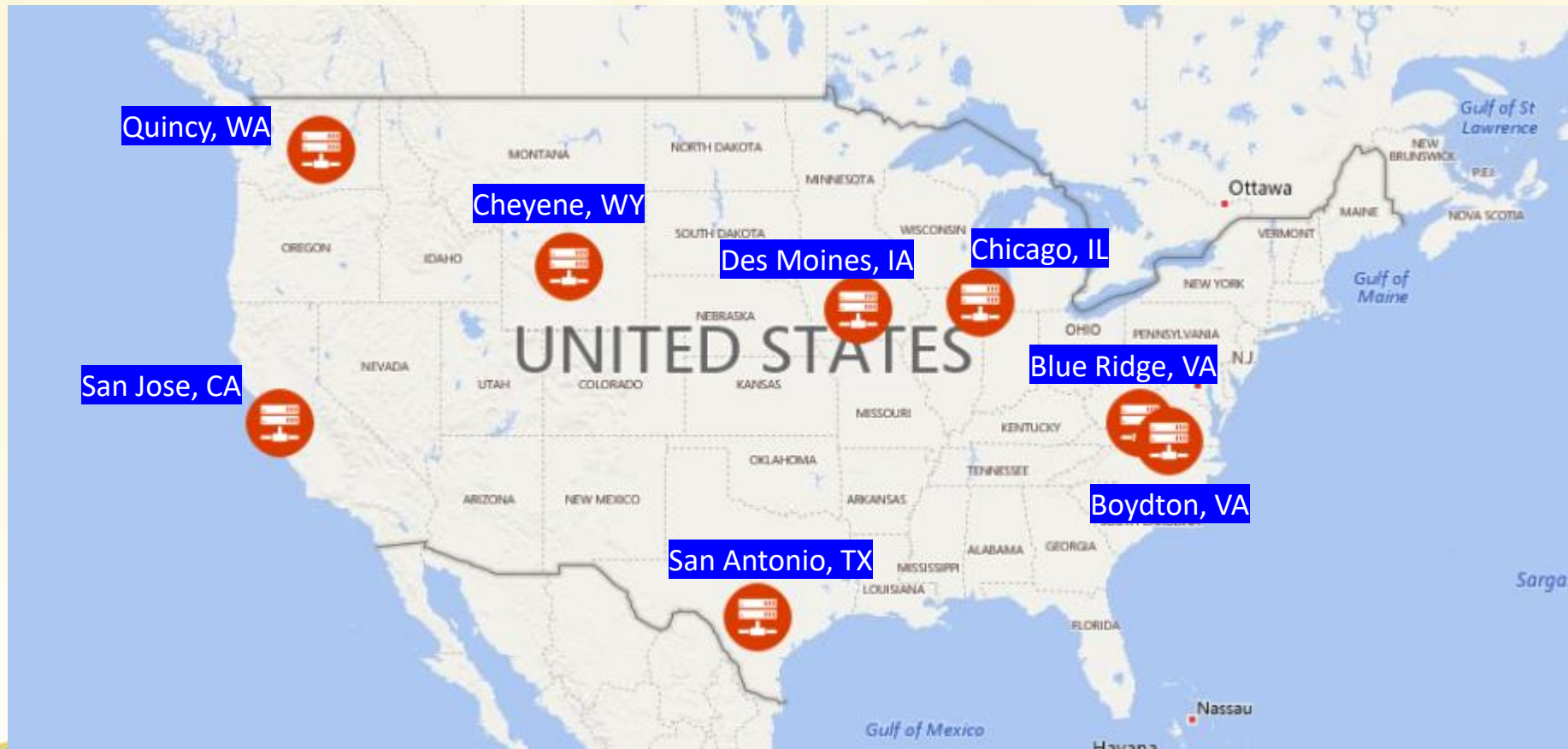


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## “Robust” software... *(3 criteria)*

- Flexibility / completeness
- Lots of combinations of software / services
- **Handles faults gracefully**
  - Provides High Level of Service
  - Lots of data centers
  - Replicated data
  - Degrades “nicely” and/or keeps running transparently during faults

# Office 365 North American Data Centers



# Office 365 North American Data Centers



# Office 365 North American Data Centers



# Office 365 North American Data Centers



# Office 365 North American Data Centers





# Office 365 North American Data Centers



system | source

35  
years

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# Office 365 North American Data Centers



## “Robust” software... (~~3~~ 4 criteria)

- Flexibility / completeness
- Lots of combinations of software / services
- Handles faults gracefully
- Identity Provisioning flexibility

# Office 365 Identity Management

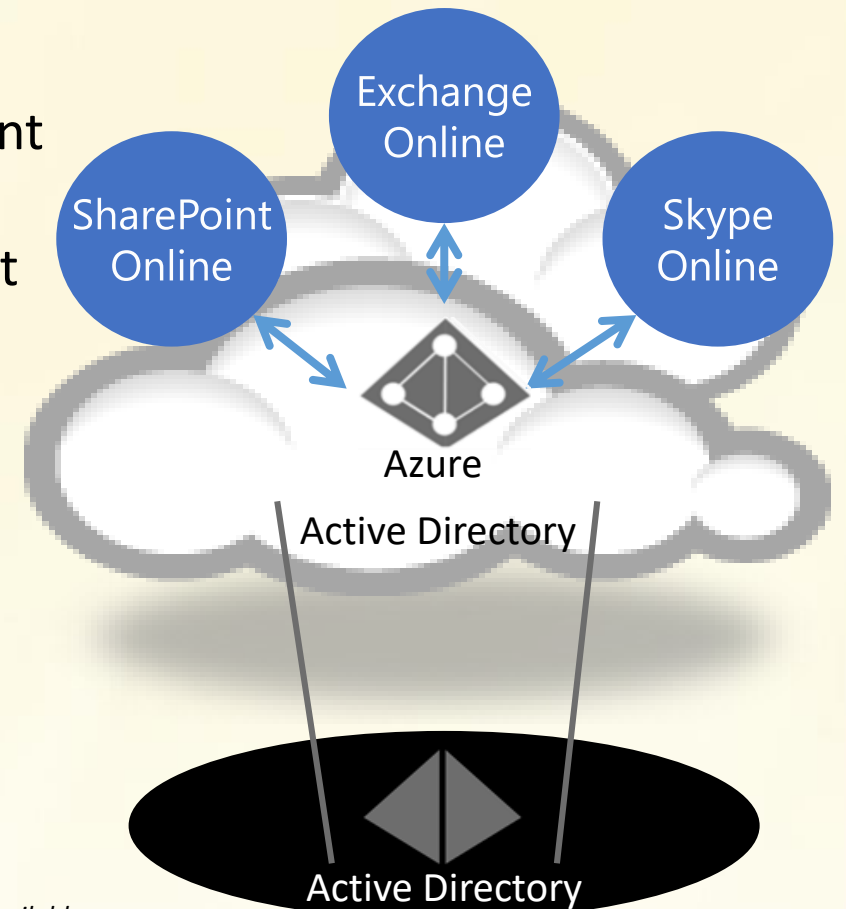


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# Where are your Office 365 Identities?

## Microsoft Azure Active Directory

- Azure Active Directory (Azure AD) is Microsoft's multi-tenant cloud based directory and identity management service.
- Azure AD also includes a full suite\* of identity management capabilities including:
  - Multi-factor authentication
  - Device registration
  - Self-service password management
  - Self-service group management
  - Privileged account management
  - Role based access control
  - Application usage monitoring
  - Rich auditing and security monitoring and alerting



*\* Subscription level (Free, Basic or Premium) determines features available*

# Azure AD Features

- Every paid subscription to Office 365 comes with a \*Free\* subscription to Azure Active Directory.
- Services within Office 365 use Azure AD as their back-end directory service.
- You can use Azure AD to manage your apps and to create and manage user and group accounts independent of other Office 365 services.
- Self-service for users on Basic (pw reset) and Premium (pw reset / change / unlock)
- Premium level enables password write-back to internal AD domain

	Free	Basic	Premium
Number of objects	500K	Unlimited	Unlimited
Self-service PW change	✓	✓	✓
Self-service PW Reset	✗	✓	✓
Self-service account Unlock w/ write-back	✗	✗	✓
MFA	✗	✗	✓
Single Sign On apps	10 /user	10 /user	No limit
Pre-integrated SaaS SSO (in MS app gallery)	✓	✓	✓
Developer-integrated apps (SAML / web)	✓	✓	✓
Application Proxy (internal) apps	✗	✓	✓
Self-service app integration templates	✗	✗	✓

# Azure AD Features

- Every paid subscription to Office 365 comes with a \*Free\* subscription to Azure Active Directory.
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Self-service PW change	✓	✓	✓
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Self-service account Unlock w/ write-back	✗	✗	✓
MFA	✗	✗	✓
Single Sign On apps	10 /user	10 /user	No limit
Pre-integrated SaaS SSO (in MS app gallery)	✓	✓	✓
Developer-integrated apps (SAML / web)	✓	✓	✓
Application Proxy (internal) apps	✗	✓	✓
Self-service app integration templates	✗	✗	✓

# Identity Management with Office 365

- Self-Service Password Change
  - User is already logged in, just wants to change password to something else.
- Self-Service Password Reset
  - User is locked out or forgot password...contact over another channel.
    - Alternate email
    - Text mobile phone
    - Call mobile phone
    - Call office phone
    - Answer security questions
  - Once verified, user can choose a new password
- Password Write back
  - Password changed / set in cloud, pushed back to in-house Active Directory



# Identity Management with Office 365

Cloud identity



Windows Azure Active Directory

Single identity in the cloud Suitable for small organizations with no integration to on-premises directories

A screenshot of the Office 365 Admin center interface. The browser address bar shows "https://portal.office.com/adminportal/home#/users". The page title is "Office 365 Admin center". The left navigation pane includes "Home", "Users", "Active users", "Contacts", "Guest users", "Deleted users", "Groups", "Resources", and "Billing". The "Active users" section is expanded, showing a table of users. The table has columns for "Display name", "User name", and "Status".

Display name	User name	Status
support2	support2@systemssource.com	Unlicensed
Susan Cohee	scohee@systemssource.com	Office 365 Enterprise E3
Suzanne F.	sfla@systemssource.com	Blocked
Suzanne Klein	sklein@systemssource.com	Office 365 Enterprise E3
Suzanne Klein	sklein@systemssource.com	Unlicensed
Syssrc Client Reports	SyssrcClientReports@systemssource.com	Unlicensed
SystemSource Tenant	tenant@systemssource.com	Blocked
Telephone Conference Bridge Line	telephoneconferencebridgeline@systemssource.c	Unlicensed

# Identity Management with Office 365

## Internal AD Identities in Office 365?

YES

# Identity Management with Office 365

## Cloud identity



Windows Azure Active Directory

Single identity in the cloud Suitable for small organizations with no integration to on-premises directories

## Cloud identity with directory synchronization



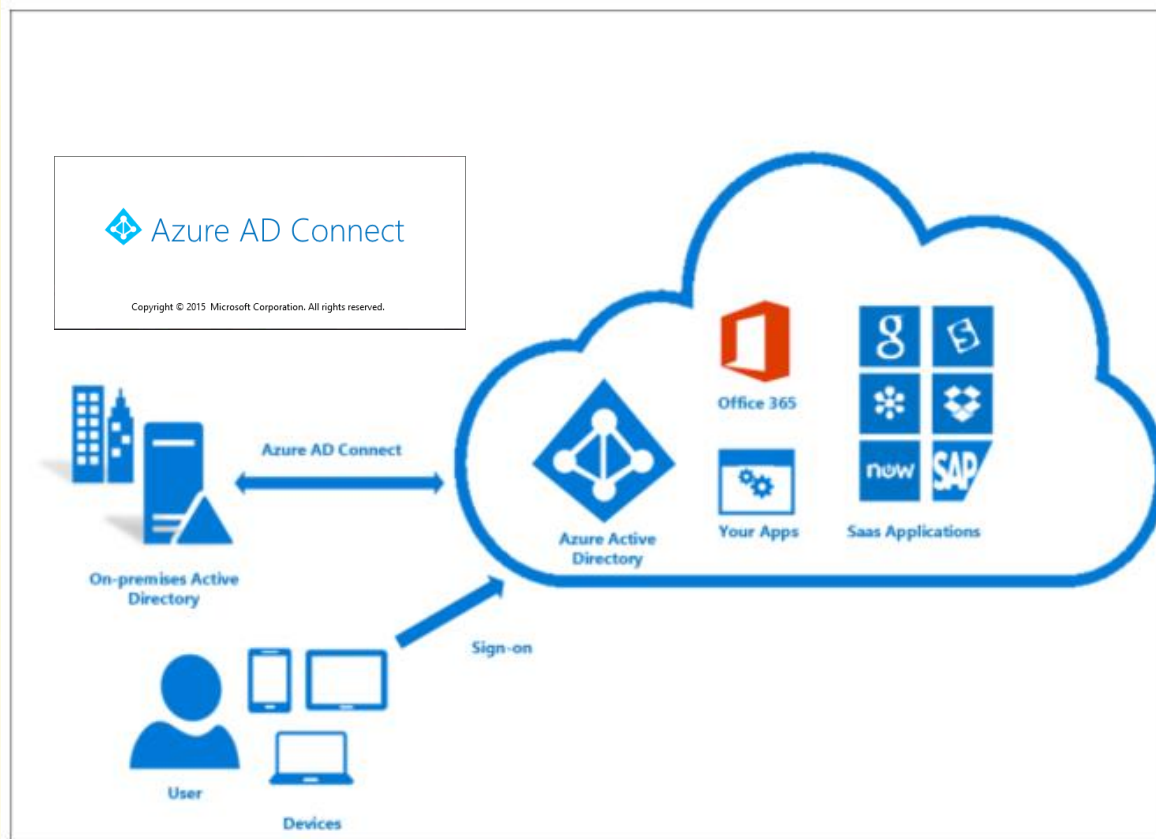
Windows Azure Active Directory

Directory Sync  
(Azure AD Connect)

On-Premises Identity

Single identity suitable for medium and large organizations without federation\*

# Directory Synchronization



- Install on a Windows 2008 R2 / 2012 R2 / 2016 server
- Service can be run on a domain controller or member server
- Does not require a dedicated system
- Select OUs to synchronize
- Optional- synchronize stored Password Hash from AD

# Directory Synchronization Considerations

- Microsoft requires an Exchange server on-premises to manage Exchange attributes.
- Password synchronization requires password changes to occur in Active Directory (unless a Premium Azure AD license is purchased)
- Account management is done on-premises for most settings

# Identity Management with Office 365

## Cloud identity



Windows Azure Active Directory

Single identity in the cloud Suitable for small organizations with no integration to on-premises directories

## Cloud identity with directory synchronization



Windows Azure Active Directory

Directory Sync  
(Azure AD Connect)

On-Premises Identity

Single identity suitable for medium and large organizations without federation\*

## Federated identity



Windows Azure Active Directory

Federation

Directory Sync

On-Premises Identity

Single federated identity and credentials suitable for medium and large organizations

# Federated Identity Considerations

- Directory Sync required
- Microsoft requires an Exchange server on-premises to manage Exchange attributes
- Your internal-network Federation Servers and AD DCs become an extension of the cloud resources.
  - All authentication and password resets occur on-premises.
  - If the on-premises AD is not available the Office 365 resources will not be available.
  - Need to consider a fault tolerant design for your ADFS servers

# Federated Identity Considerations

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# Federated Identity Considerations

- Directory Sync required
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  - **If the on-premises AD is not available the Office 365 resources will not be available.**
  - **If choosing Federation, you need to consider a fault tolerant design for your ADFS servers**

## “Robust” software... (~~3~~ 4 criteria)

- Flexibility / completeness
- Lots of combinations of software / services
- Handles faults gracefully
- **Identity Provisioning flexibility**
  - Cloud only
  - On-premise AD synced with or without Password Sync
  - Federated (cloud account has no password)

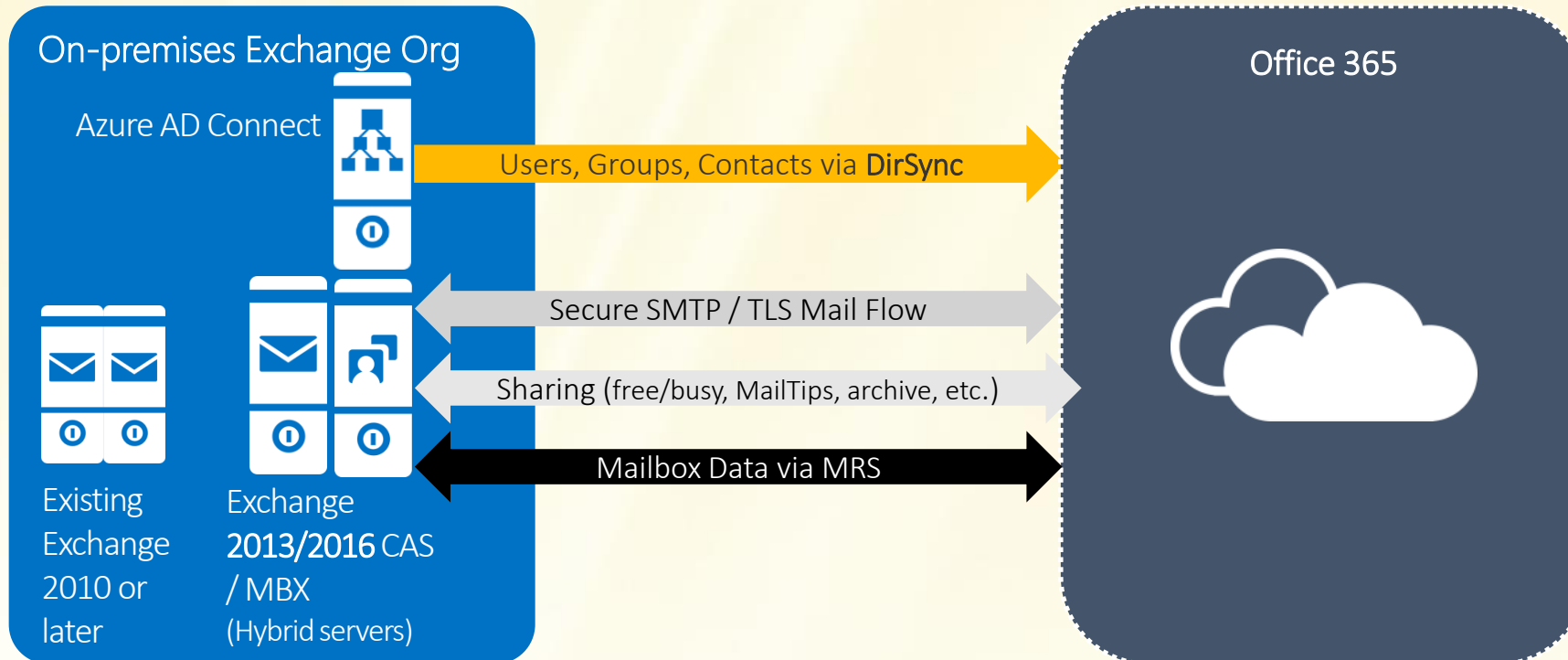
## “Robust” software... (~~3~~5 criteria)

- Flexibility / completeness
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- Handles faults gracefully
- Identity Provisioning flexibility
- **Ability to mix on-premise and cloud services**

# Hybrid Exchange server

- Used for long-term / “high fidelity” migrations
- A “bridge” system to / from on-premise / cloud
  - Uses Exchange Connectors –
    - on-prem to cloud connectors defined on Hybrid server
    - cloud to on-prem connectors defined on Office 365
- Acts as a “trusted” connector – both sides see the other as an “internal” mail transfer.
  - Changes throttling / spam checking / limits
  - Out of Office messages use “Internal” message.
- Can use the same Exchange management server that is required for Directory Sync and Federated scenarios
- Hybrid Exchange license is free (with O365 license).

# Exchange 2013/2016 Hybrid – Architecture



# Hybrid Coexistence Feature Comparison

Feature	Simple	Hybrid
Mail routing between on-premises and cloud (recipients on either side)	●	●
Mail routing with shared namespace (if desired) on both sides	●	●
Unified GAL	●	●
Free/Busy and calendar sharing cross-premises		●
Out of Office understands that cross-premises is "internal" to the organization		●
Mails, messaging tracking, and mailbox search work cross-premises		●
OWA redirection cross-premise (single OWA URL for both on-premises and cloud)		●
Single tool to manage cross-premises Exchange functions (including migrations)		●
Mailbox moves support both onboarding and offboarding		●
No outlook reconfiguration or OST resync required after mailbox migration		●
Preserve <u>auth</u> header (ensure internal email is not spam, resolve against GAL, etc.)		●
Centralized mail flow , ensures that all email routes inbound/outbound via <u>on-prem</u>		●

mailboxes - Microsoft Exchange x +

https://.../ecp/ 80% Search

Enterprise Office 365 Pugliese, Tony ?

## Exchange admin center

recipients mailboxes groups resources contacts shared migration

permissions

compliance management

organization

protection

mail flow

mobile

public folders

unified messaging

servers

+ - ✎ 🗑️ 🔍 🔄 ...

DISPLAY NAME	MAILBOX TYPE	EMAIL ADDRESS
<b>A L</b>	<b>User</b>	<b>alembo1@...</b>
ACD-VM-DEFAULT	User	ACD-VM-DEFAULT@...
ACD-VM-Intake	User	ACD-VM-Intake@...
ACD-VM-Spanish	User	ACD-VM-Spanish@...
ACD-VM-Veterans	User	ACD-VM-Veterans@...
ACD-VM-WLC	User	ACD-VM-WLC@...
Advance Business	User	advancebs@...
Akamigbo, Chijioko	User (Archive)	CAkamigbo@...
Alencherry, Lucia	User (Archive)	LAlencherry@...
Alexander, Ko A.	User (Archive)	KAlexander@...
Alt, Emily	User (Archive)	ealt@...
Alumini, J.A.P.	User (Archive)	Alumini@...

**A L**

User mailbox  
alembo1@...

Title:

Office:

Work phone:

Phone and Voice Features

Unified Messaging: Disabled

[Enable](#)

Mobile Devices

Exchange admin center mailboxes - Microsoft Exchange

recipients

permissions

compliance

organization

protection

mail flow

mobile

public folders

unified messaging

servers

hybrid

EMAIL ADDRESS

alembo1@...

ACD-VM-DEFAULT@...@msn.com

ACD-VM-Intake@...@msn.com

ACD-VM-Spanish@...@msn.com

ACD-VM-Veterans@...@msn.com

ACD-VM-WLC@...@msn.com

advancebs@...@msn.com

CAkamigbo@...@msn.com

LAlencherry@...@msn.com

KAlexander@...@msn.com

ealt@...@msn.com

Alumni@...@msn.com

NAminnia@...@msn.com

A L

User mailbox  
alembo1@...@msn.com

Title:

Office:

Work phone:

Phone and Voice Features

Unified Messaging: Disabled  
Enable

Mobile Devices

Disable Exchange ActiveSync





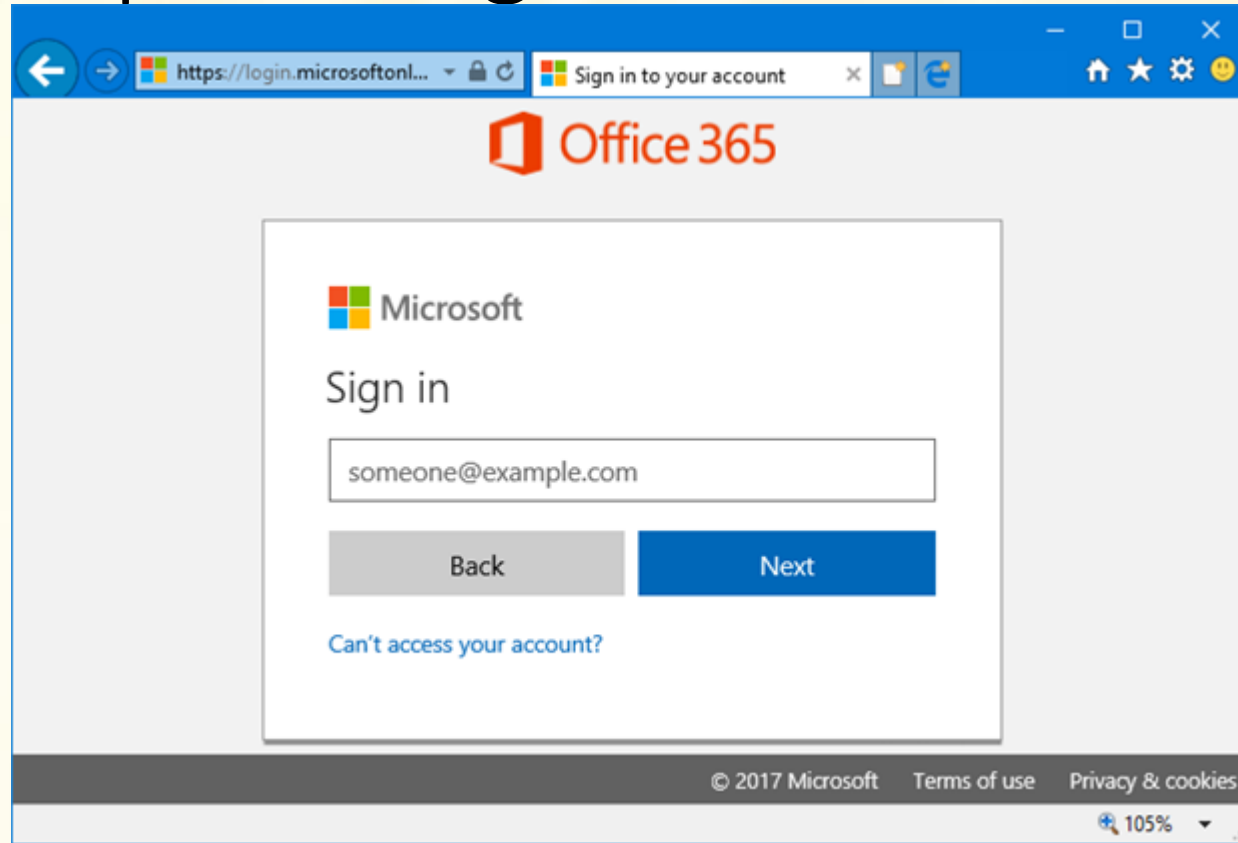
# Mailbox Migration with Hybrid Server

- Two part migration – copy mailbox contents and then update directories.
- Mailbox migrations are bi-directional – sent to - or received from - Exchange online
- User's current Outlook profile is updated with the Exchange Online server name via Autodiscover.
- Offline cache files (OST) do not have to be downloaded again.
- Users with Outlook 2013 or better will not know their mailbox is being migrated, until the end of the migration when directories are updated.

## “Robust” software... (~~3~~5 criteria)

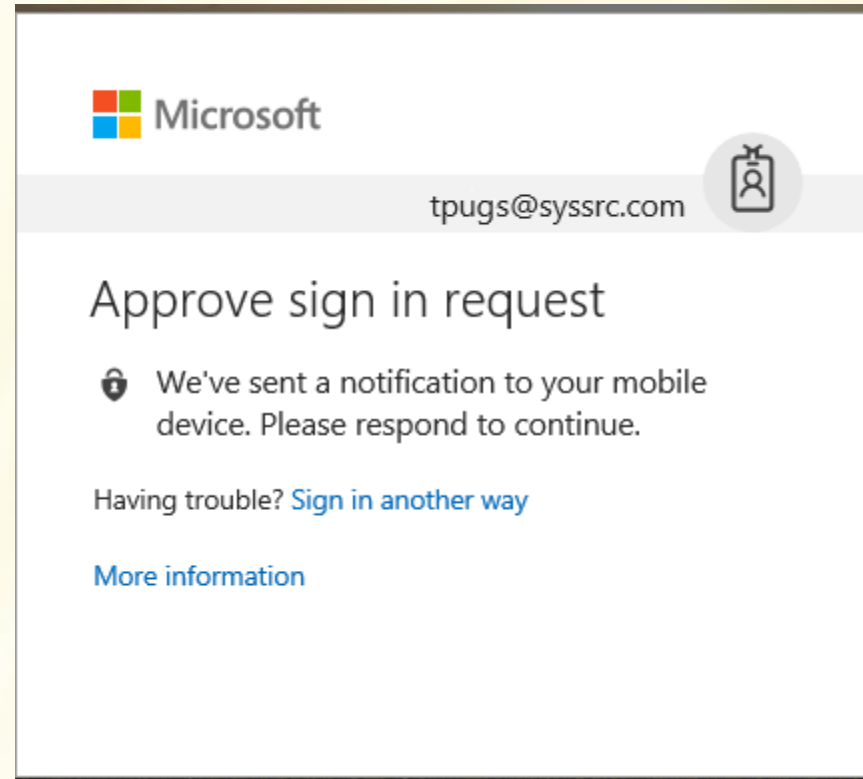
- Flexibility / completeness
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- Handles faults gracefully
- Identity Provisioning flexibility
- **Ability to mix on-premise and cloud services**

# Office 365 portal sign in



<https://login.microsoftonline.com/>

# Office 365 Sign in – MFA



# Office 365 - web interface

The screenshot displays the Office 365 web interface. At the top, a dark blue navigation bar contains the Office 365 logo, the text "Office 365", and user controls including a notification bell, a settings gear, a help question mark, and the user name "Tony Paul Pugliese" with a profile picture. Below the navigation bar, a blue header area features the greeting "Good afternoon" and a search bar. To the right of the search bar is a button labeled "Install Office 2016" and a link for "Other installs". The main content area is a grid of application tiles, each with an icon and a label: Mail, OneDrive, Word, Excel, PowerPoint, OneNote, SharePoint, Teams, Yammer, and Dynamics 365. Below this grid are two more tiles for "Flow" and "People". At the bottom left of the grid, there is a "Show more apps" link with a downward arrow.

## “Robust” software... (~~3~~ 6 criteria)

- Flexibility / completeness
- Lots of combinations of software / services
- Handles faults gracefully
- Identity Provisioning flexibility
- Ability to mix on-premise and cloud services
- Security options for 2FA / MFA

# Questions?



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# Office 365: Make the Most Out of Your Journey

Barracuda Networks

September 2017





# System Source & Barracuda:

- **Barracuda Partner since 2013**
- **Why Barracuda Backup:**
  - **Combines onsite & cloud backup**
  - **Comprehensive, cost-effective local & offsite backups**
  - **DR solutions**
  - **Deduplication and compression**
  - **Easy deployment and administration**
  - **Small, Mid-size and Larger organizations**



# Protecting Office 365

Adding defense in depth to your Office 365 deployment



# Migration to the cloud

Since its introduction in 2011, Microsoft Office 365 has grown to be a powerful force in the Enterprise Cloud Services market.



# Migration to the cloud

Since its introduction in 2011, Microsoft Office 365 has grown to be a powerful force in the Enterprise Cloud Services market.

Many of you are already there, or are going there soon



# Migration to the cloud

Since its introduction in 2011, Microsoft Office 365 has grown to be a powerful force in the Enterprise Cloud Services market.

Why?



# Migration to the cloud

Microsoft offers a solid proposition for customers looking to move to a cloud-based infrastructure.

Office 365 offers

- Cost effective
- Eminently scalable
- Simplified management
- Cross platform versatility



# What about security?

Microsoft has done a world class job securing the infrastructure that backs Office 365. But what do they have in place to protect their users from malicious email?



# What about security?

Microsoft has done a world class job securing the infrastructure that backs Office 365. But what do they have in place to protect their users from malicious email?

Answer: two separate solutions

- Exchange Online Protection (EOP)
- Advanced Threat Protection (ATP)





# What about security?

Exchange Online Protection (EOP) covers the basics:

- Spam filtering
- Anti-virus
- Anti-malware

Included in Office 365



# What about security?

Advanced Threat Protection (ATP) adds:

- Protection from advanced threats
- Protection from Zero-Day attacks
- Link protection

Additional cost subscription  
for Office 365



# What's missing from the picture?

Between EOP and ATP Microsoft provides a complete defense against email attacks.

Or do they?



# Why add additional layers?

If Microsoft includes security functionality in Office 365, why would I need additional layers?

Good question



# Why add additional layers?

If Microsoft includes security functionality in Office 365, why would I need additional layers?

Security best practices:

- Defense in depth



# Why add additional layers?

If Microsoft includes security functionality in Office 365, why would I need additional layers?

Security best practices:

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- Multiple vendors



# Why add additional layers?

If Microsoft includes security functionality in Office 365, why would I need additional layers?

Security best practices:

- Defense in depth
- Multiple vendors
- Multiple defensive techniques



# Are we missing any challenges?

Without even considering the concept of Defense in Depth, are there any security challenges using Office 365?

Challenging user interface:

- Office 365's UI is comprehensive, but complex
  - It can be challenging to find everything you need, especially security functionality.





# Are we missing any challenges?

Without even considering the concept of Defense in Depth, are there any security challenges using Office 365?

Email protection challenges:

- Spam filtering efficacy
- Processing time for Advanced Threats
- Potential security challenges



# Are we missing any challenges?

Without even considering the concept of Defense in Depth, are there any other security challenges using Office 365?

What haven't we talked about:

- Off-site Backups in case of a breach
- Journalled Archive for Compliance



# What's missing from the picture?

What pieces are missing from the email protection puzzle?

There is more to Office 365 security than meets the eye.

It takes more than the obvious pieces to complete the picture.



# What's missing from the picture?

What pieces are missing from the email protection puzzle?

Barracuda takes a three step approach:

## Detect



# What's missing from the picture?

What pieces are missing from the email protection puzzle?

Barracuda takes a three step approach:

Detect  
Prevent



# What's missing from the picture?

What pieces are missing from the email protection puzzle?

Barracuda takes a three step approach:

Detect  
Prevent  
Recover



# How Barracuda completes the picture

Barracuda is uniquely positioned to complete the security picture for Office 365, complimenting Microsoft's native security and adding additional capabilities that Office 365 lacks.

Barracuda Essentials  
fills in the gaps



# Barracuda Essentials: Detect

Barracuda offers several tools to detect threats that may already exist in your environment.





# Barracuda Essentials: Detect

Barracuda offers several tools to detect threats that may already exist in your environment.

Barracuda Email Threat Scanner for Office 365:

- Scans Exchange Online mailboxes for existing threats



Exchange  
Threat Scanner



# Barracuda Essentials: Detect

Barracuda offers several tools to detect threats that may already exist in your environment.

Barracuda Email Threat Scanner for Office 365:

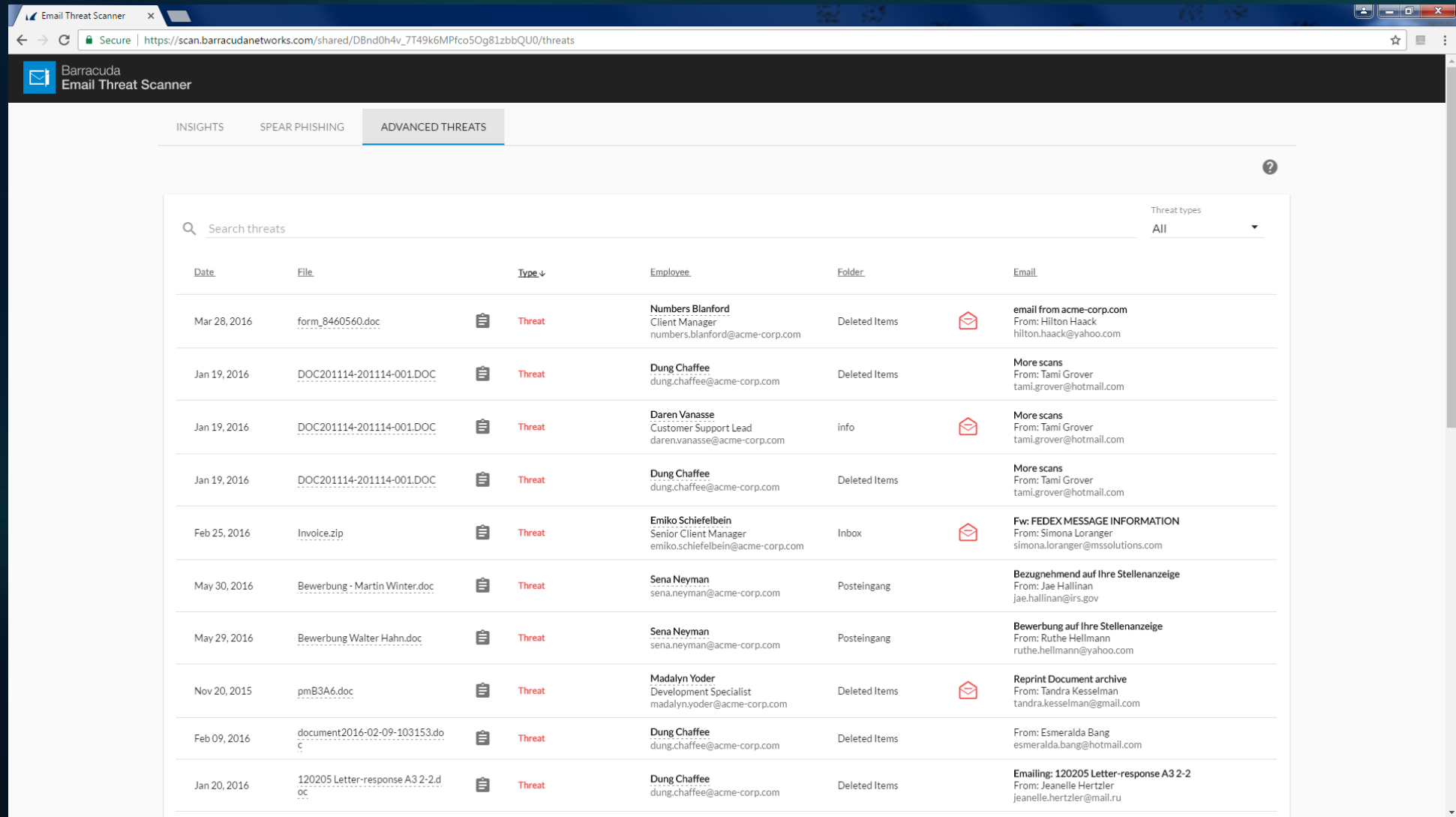
- Scans Exchange Online mailboxes for existing threats
- Cloud based and free



Exchange  
Threat Scanner



# Barracuda Essentials: Detect



The screenshot displays the Barracuda Email Threat Scanner interface. The browser address bar shows the URL: [https://scan.barracudanetworks.com/shared/DBnd0h4v\\_7T49k6MPfco5Og81zbbQU0/threats](https://scan.barracudanetworks.com/shared/DBnd0h4v_7T49k6MPfco5Og81zbbQU0/threats). The page title is "Barracuda Email Threat Scanner". The navigation menu includes "INSIGHTS", "SPEAR PHISHING", and "ADVANCED THREATS". A search bar is present with the text "Search threats". A dropdown menu for "Threat types" is set to "All". The main content area is a table listing detected threats.

Date	File	Type	Employee	Folder	Email
Mar 28, 2016	form_8460560.doc	Threat	Numbers Blanford Client Manager numbers.blanford@acme-corp.com	Deleted Items	email from acme-corp.com From: Hilton Haack hilton.haack@yahoo.com
Jan 19, 2016	DOC201114-201114-001.DOC	Threat	Dung Chaffee dung.chaffee@acme-corp.com	Deleted Items	More scans From: Tami Grover tami.grover@hotmail.com
Jan 19, 2016	DOC201114-201114-001.DOC	Threat	Daren Vanasse Customer Support Lead daren.vanasse@acme-corp.com	info	More scans From: Tami Grover tami.grover@hotmail.com
Jan 19, 2016	DOC201114-201114-001.DOC	Threat	Dung Chaffee dung.chaffee@acme-corp.com	Deleted Items	More scans From: Tami Grover tami.grover@hotmail.com
Feb 25, 2016	Invoice.zip	Threat	Emiko Schiefelbein Senior Client Manager emiko.schiefelbein@acme-corp.com	Inbox	Fw: FEDEX MESSAGE INFORMATION From: Simona Loranger simona.loranger@mssolutions.com
May 30, 2016	Bewerbung - Martin Winter.doc	Threat	Sena Neyman sena.neyman@acme-corp.com	Posteingang	Bezugnehmend auf Ihre Stellenanzeige From: Jae Hallinan jae.hallinan@irs.gov
May 29, 2016	Bewerbung Walter Hahn.doc	Threat	Sena Neyman sena.neyman@acme-corp.com	Posteingang	Bewerbung auf Ihre Stellenanzeige From: Ruthe Hellmann ruthe.hellmann@yahoo.com
Nov 20, 2015	pmB3A6.doc	Threat	Madalyn Yoder Development Specialist madalyn.yoder@acme-corp.com	Deleted Items	Reprint Document archive From: Tandra Kesselman tandra.kesselman@gmail.com
Feb 09, 2016	document2016-02-09-103153.doc	Threat	Dung Chaffee dung.chaffee@acme-corp.com	Deleted Items	From: Esmeralda Bang esmeralda.bang@hotmail.com
Jan 20, 2016	120205 Letter-response A3 2-2.doc	Threat	Dung Chaffee dung.chaffee@acme-corp.com	Deleted Items	Emailing: 120205 Letter-response A3 2-2 From: Jeanelle Hertzler jeanelle.hertzler@mail.ru



# Barracuda Essentials: Detect

Barracuda offers several tools to detect threats that may already exist in your environment.

Barracuda Email Threat Scanner for Exchange:

- Scans on-site Exchange server mailboxes for existing threats



# Barracuda Essentials: Detect

Barracuda offers several tools to detect threats that may already exist in your environment.

Barracuda Email Threat Scanner for Exchange:

- Scans on-site Exchange server mailboxes for existing threats
- Runs on a local host and is free of charge.



# Barracuda Essentials: Prevent

Barracuda Essentials includes components that can prevent attacks from even happening.



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Email Security Service: Protecting users

- World class spam filtering



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Email Security Service: Protecting users

- World class spam filtering
- Anti-phishing protection





# Barracuda Essentials: Prevent

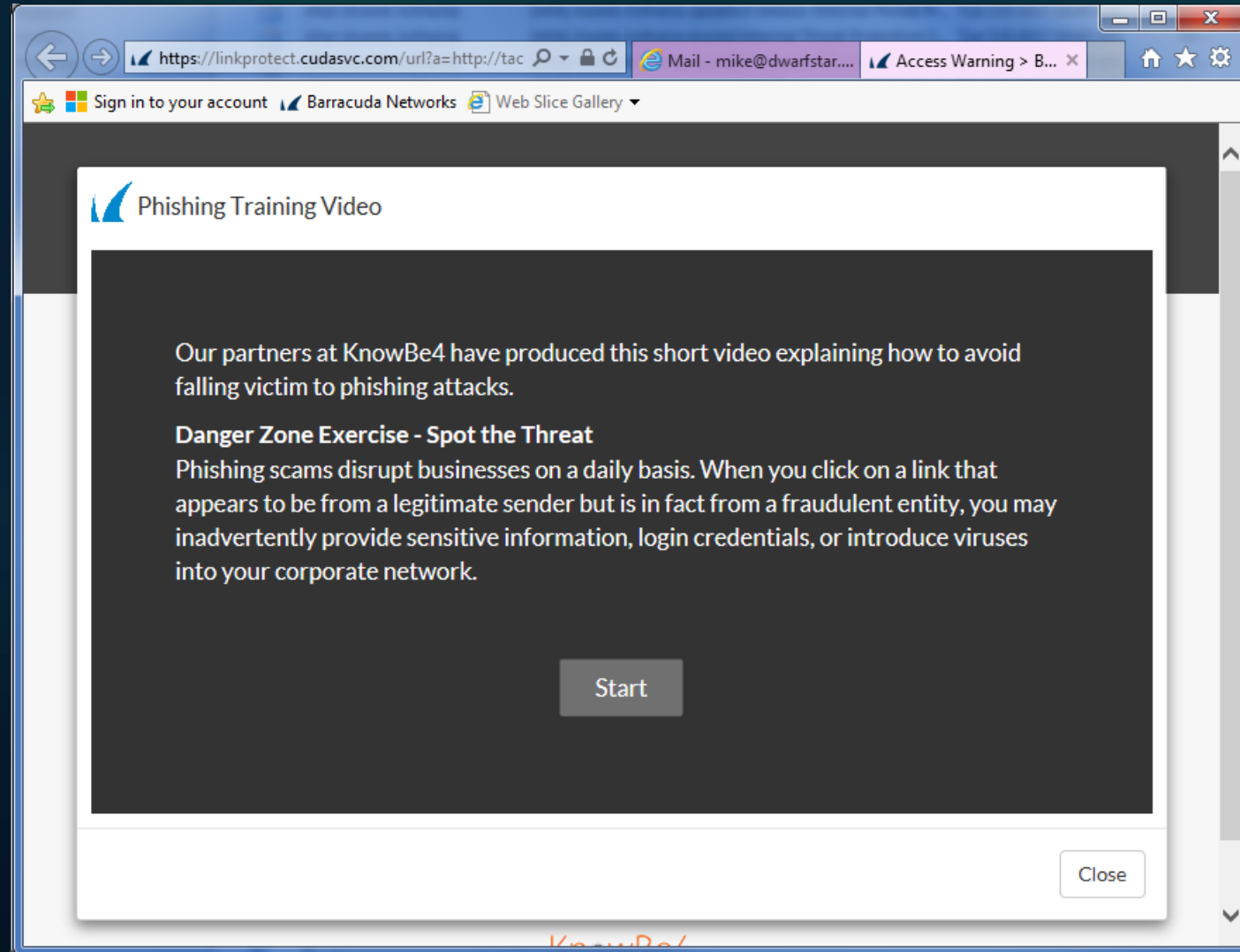
Barracuda Essentials includes components that can prevent attacks from even happening.

Email Security Service: Protecting users

- World class spam filtering
- Anti-phishing protection
- Link Protection



# Barracuda Essentials: Prevent



The screenshot shows a web browser window with the address bar displaying <https://linkprotect.cudasvc.com/url?a=http://tac>. The browser tabs include "Mail - mike@dwarfstar...", "Access Warning > B...", and "Sign in to your account". The page content features a "Phishing Training Video" player with the following text:

Our partners at KnowBe4 have produced this short video explaining how to avoid falling victim to phishing attacks.

**Danger Zone Exercise - Spot the Threat**

Phishing scams disrupt businesses on a daily basis. When you click on a link that appears to be from a legitimate sender but is in fact from a fraudulent entity, you may inadvertently provide sensitive information, login credentials, or introduce viruses into your corporate network.

Start

Close

KnowBe4



# Barracuda Essentials: Prevent

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Email Security Service: Scanning attachments

- Anti-virus



# Barracuda Essentials: Prevent

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Email Security Service: Scanning attachments

- Anti-virus
- Anti-malware



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Advanced Threat Prevention: Stopping advanced threats

- Multi-layered defenses



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- Heuristic analysis



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Advanced Threat Prevention: Stopping advanced threats

- Multi-layered defenses
- Heuristic analysis
- CPU Emulated sandbox



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Advanced Threat Prevention: Multiple feed sources

- Email Security





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Advanced Threat Prevention: Multiple feed sources

- Email Security
- Web Security Gateways



# Barracuda Essentials: Prevent

Barracuda Essentials includes components that can prevent attacks from even happening.

Advanced Threat Prevention: Multiple feed sources

- Email Security
- Web Security Gateways
- Next Generation Firewall



# Barracuda Essentials: Prevent

## All Threat Vectors



Network



Email



Web



Mobile Users



Application

Honey Pots

Crawlers

240,000  
Deployments

Customer  
Submissions

Barracuda Labs

Threat  
Intelligence

## All Advanced Threats



CPU Emulation Sandboxing

Static Analysis

Behavioral Analysis

Signature Analysis

Machine Learning

Queries

## Barracuda Security Solutions

ESS

Email Security Service

ESG

Email Security Gateway

WSG

Web Security Gateway

NG

NextGen Firewall

WAF

Web Application Firewall



# Introducing Barracuda Sentinel for Office 365

Barracuda Sentinel protects people, businesses, and brands from spear phishing and cyber fraud



# Comprehensive Spear Phishing Protection

The letters 'AI' in a light blue, sans-serif font, centered on a dark blue background.

AI for Real-Time Spear Phishing Prevention



Domain Fraud Visibility and Protection with DMARC



Fraud Simulation for High-Risk Individuals



# Barracuda Essentials: Recover

Even the best security systems sometimes fail, which is why Recover is the final piece of the puzzle.



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Cloud to Cloud Backup: Recover your files

- Off site storage for security and redundancy



# Barracuda Essentials: Recover

Even the best security systems sometimes fail, which is why Recover is the final piece of the puzzle.

Cloud to Cloud Backup: Recover your files

- Off site storage for security and redundancy
- Simple interface to restore lost data





# Barracuda Essentials: A final piece

While email archives aren't often considered part of "Security" as such, secure archives can be vital for legal and compliance reasons. Barracuda extends Office 365's built in tools to a true journaled archive



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Barracuda Cloud Archive Service: Immutable journaling

- Journaled, immutable, archiving



# Barracuda Essentials: A final piece

While email archives aren't often considered part of "Security" as such, secure archives can be vital for legal and compliance reasons. Barracuda extends Office 365's built in tools to a true journaled archive

## Barracuda Cloud Archive Service: Immutable journaling

- Journaled, immutable, archiving
- Easily searchable, fully recoverable



# Summing up

Microsoft provides compelling reasons to move your organization to Office 365, including basic security services. But it may not be enough.

Barracuda completes the security picture with a full suite of email security tools to protect your users.



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Barracuda completes the security picture with a full suite of email security tools to protect your users.

- Email security including Advanced Threat Protection



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- Email security including Advanced Threat Protection
- Off-site backups to restore data in case of a loss



# Summing up

Barracuda completes the security picture with a full suite of email security tools to protect your users.

- Email security including Advanced Threat Protection
- Off-site backups to restore data in case of a loss
- Cloud archive for legal and regulatory compliance



# Resources

Barracuda Essentials information:

<https://www.barracuda.com/products/essentials>

Barracuda Essentials Demo:

<https://login.barracudanetworks.com/auth/login/>

Email Threat Scan for Office 365 :

<https://scan.barracuda.com/>





Thank You



**THANKS!**  
**Evaluations & Door Prizes**  
**Learning Center Offer**



the one source for IT & AV