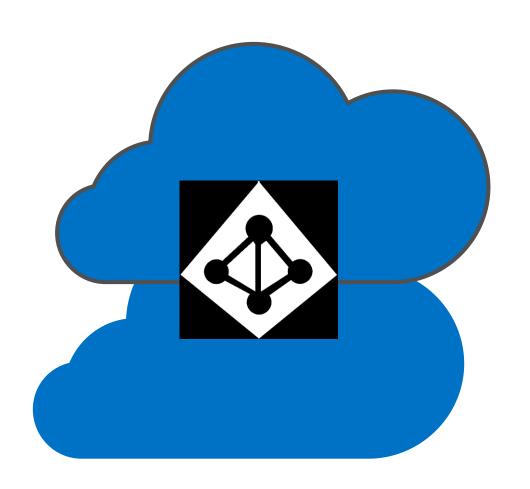
# Azure AD Premium

### What is Azure Active Directory?



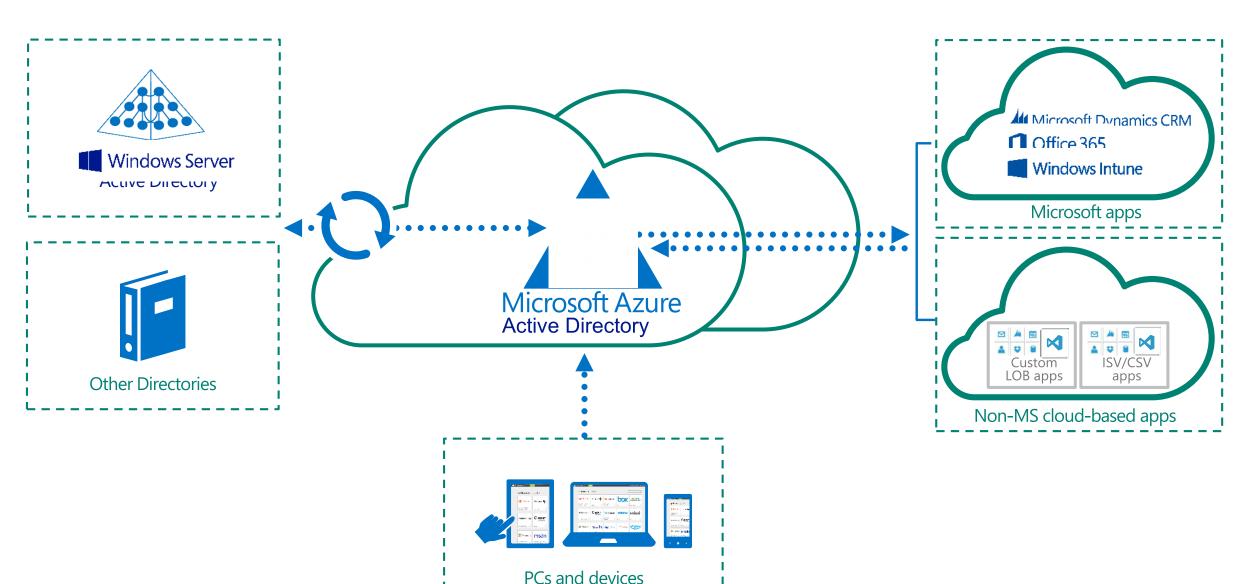
A comprehensive identity and access management cloud solution.

It combines directory services, advanced identity governance, application access management and a rich standards-based platform for developers.

#### Versions:

- Free
- Basic
- Premium

## Azure AD as the control point



### Microsoft Azure Active Directory Premium

many apps, one identity repository



Pre-integrated for Single Sign On (SSO) to 2,500 popular SaaS apps Easily add custom cloud-based apps.

Connect to your on-premises Windows Server Active Directory

manage identities and access to cloud apps



Comprehensive identity and access management console

Centralized management for assigning access to applications with groups

Secure business processes with advanced access management capabilities

monitor and protect access to enterprise apps



Security reporting to track inconsistent access patterns Included Multi-Factor authentication capabilities Advanced machine-learning-based reporting

enable users



Consistent experience for SSO – the access panel Tenant branded access panel Self service password reset

#### Azure Active Directory editions feature comparison + Office 365 IAM features

		Azure Active Directory Free	Azure Active Directory Basic	Azure Active Directory Premium	Office 365 apps only
	Directory as a Service	500,000 Object Limit	No Object Limit	No Object Limit	No Object limit for Office 365 user accounts
	User/Group Management (add/update/delete)	Yes	Yes	Yes	Yes
	SSO to pre-integrated SAAS Applications /Custom Apps	10 apps per user	10 apps per user	No Limit	10 apps per user
Common Features	User-Based access management/provisioning	Yes	Yes	Yes	Yes
	Self-Service Password Change for cloud users	Yes	Yes	Yes	Yes
	Connect (Sync engine that extends on-premises directories to Azure Active Directory)	Yes	Yes	Yes	Yes
	Security Reports/Audit	3 Basic Reports	3 Basic Reports	Advanced Security Reports	3 Basic Reports
	Group-based access management/provisioning		Yes	Yes	
Premium	Self-Service Password Reset for cloud users		Yes	Yes	Yes
+ Basic	Company Branding (Logon Pages/Access Panel customization)		Yes	Yes	Yes
Features	Application Proxy		Yes	Yes	
	SLA		Yes	Yes	Yes
	Self-Service Group Management			Yes	
	Self-Service Password Reset/Change with on-premises write-back			Yes	
	Advanced Usage Reporting			Yes	
	Multi-Factor Authentication (Cloud and On-premises (MFA Server))			Yes	Limited cloud only for Office 365 Apps
Premium	MIM CAL + MIM Server			Yes	
Features	Administrative Units (in Preview)			Yes	
	Cloud App Discovery			Yes	
	Conditional Access : MFA per application (in Preview)			Yes	
	Automated password roll-over (in Preview)			Yes	
	Connect health			Yes	



## Centrally managed identities and access

Comprehensive identity and access management console.

Centralized access administration for preintegrated SaaS apps and other cloud-based apps.

Secure business processes with advanced access management capabilities.

₩indows Azure audrey.oliver@wingtiptoysonline.com wingtiptoysonline VIEW All current users USER NAME SOURCED FROM DISPLAY NAME Windows Azure Active Directory Administrator Wingtiptov wingtiptoysonline@outlook.com Alvin Vanove alvin.vanover@wingtiptoysonline.com Local Active Director Audrey Oliver August Sacco 0 Bernadette Willian bernadette.william@wingtiptoysonline.com Brandi York carroll.bracken@wingtiptoysonline.com Local Active Directory Cecil Noll cecil.noll@wingtiptoysonline.com Local Active Director Clifford Word Clyde Ethridge clyde.ethridae@winatiptaysonline.com Local Active Director Derick Segal derick.segal@wingtiptoysonline.com Local Active Directory NEW

Your cloud apps are ready when you are.

### Identity Options Comparison

#### 1. MS Online IDs

#### **Appropriate for**

 Smaller orgs without AD on -premise

#### **Pros**

No servers required on-pre mise

#### Cons

- No SSO
- No 2FA
- 2 sets of credentials to man age with differing password policies
- IDs mastered in the cloud

### 2. MS Online IDs + AD Connect

#### **Appropriate for**

 Medium/Large orgs with A D on-premise

#### **Pros**

- Users and groups mastered on-premise
- Enables co-existence scenarios

#### Cons

- No SSO
- No 2FA
- 2 sets of credentials to man age with differing password policies
- Server deployment required

### 3. Federated IDs + AD Connect

#### **Appropriate for**

 Larger enterprise orgs with AD on-premise

#### Pros

- SSO with corporate cred
- IDs mastered on-premise
- Password policy controlled on-premise
- 2FA solutions possible
- Enables co-existence scenarios

#### Cons

 High availability server depl oyments required

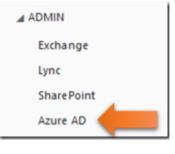


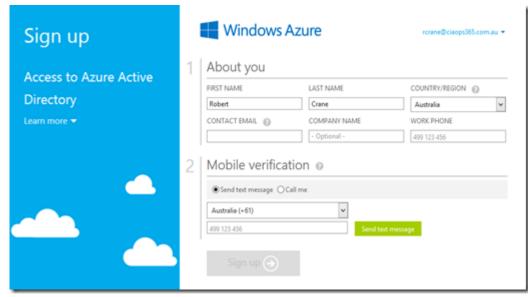


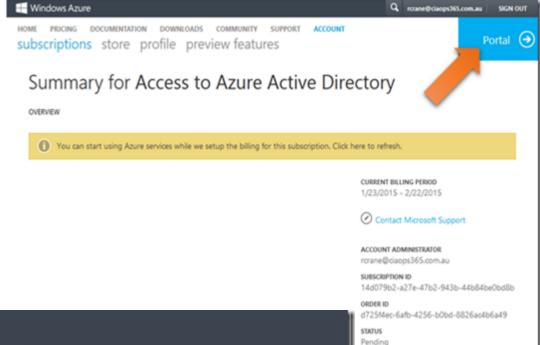


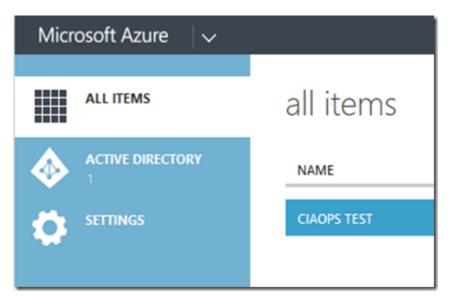


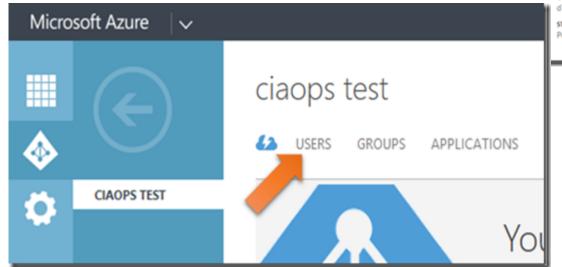
### Access to free Azure AD via Office 365





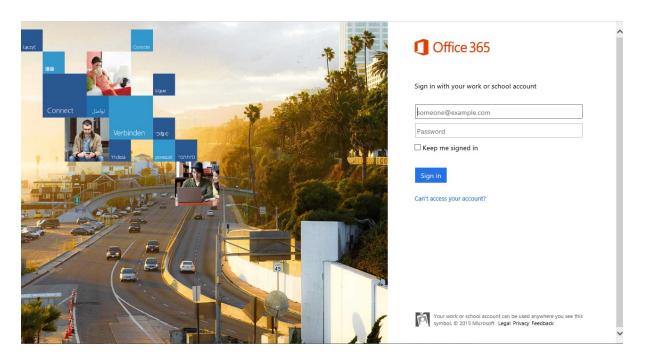


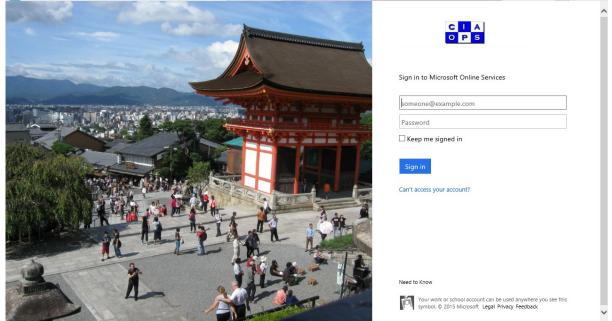




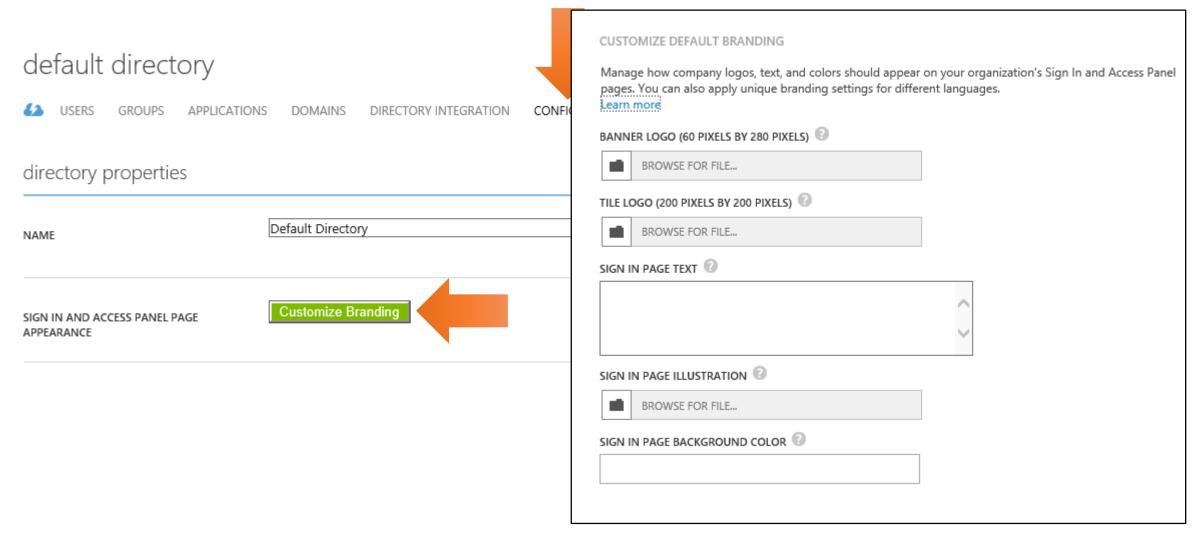
# Office 365 Branding

### Tenant branding



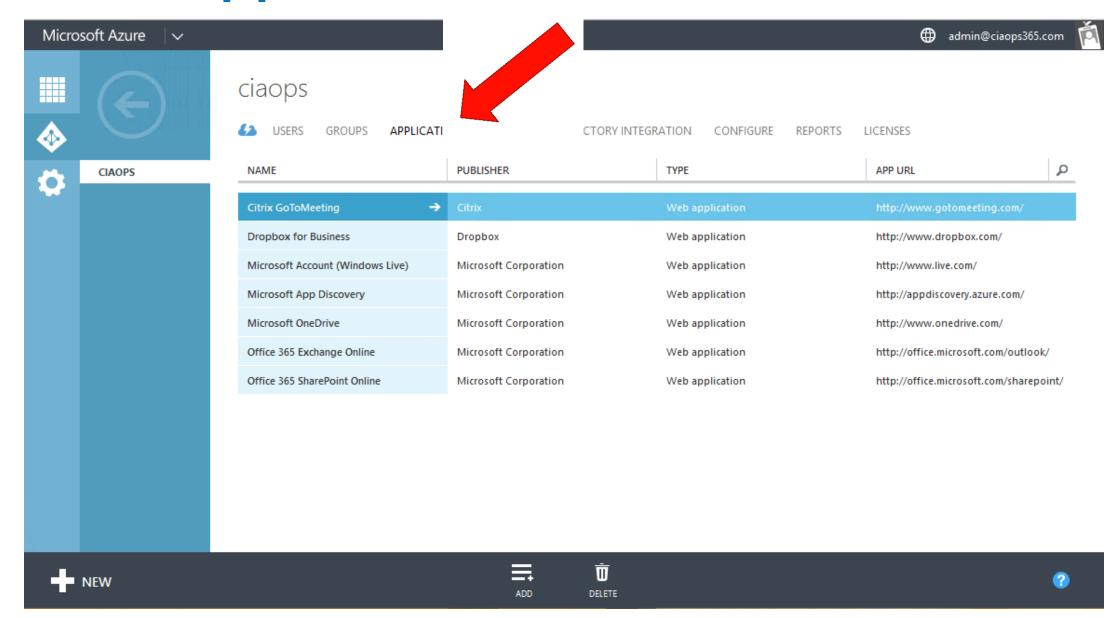


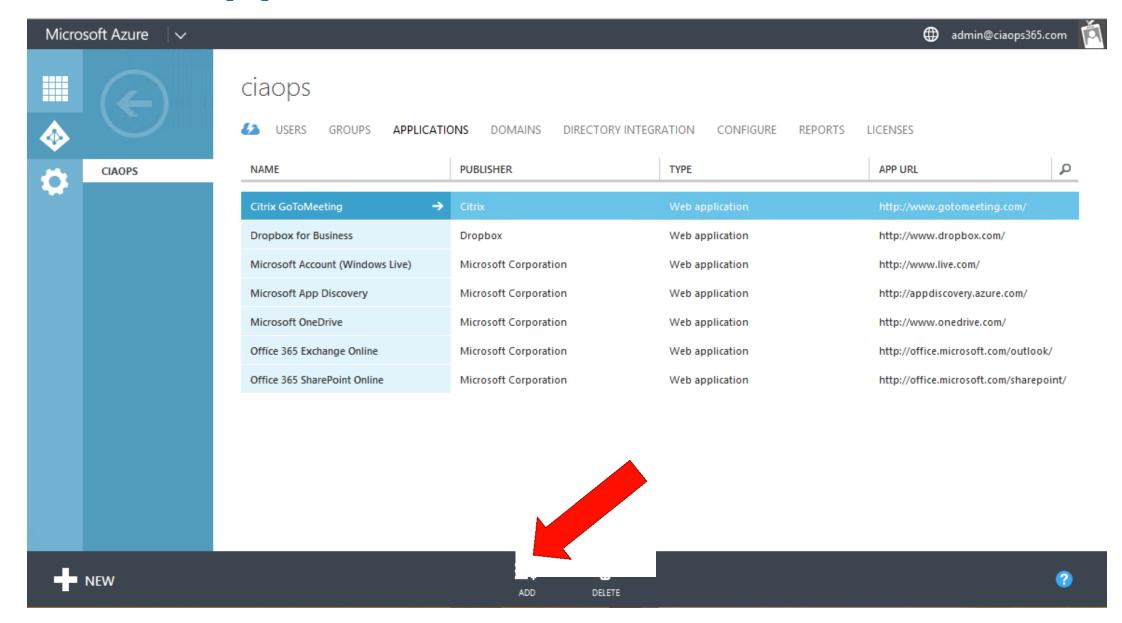
### Tenant branding



https://msdn.microsoft.com/en-us/library/azure/dn532270.aspx

# Single Sign On (SSO) Web Portal





What do you want to do?

- Add an application my organization is developing
- Add an application from the gallery



APPLICATION GALLERY

Add an application for my organization to use



FEATURED APPLICATIONS (14)

CUSTOM

ALL (2455)

BUSINESS MANAGEMENT (88)

COLLABORATION (278)

CONSTRUCTION (3)

CONTENT MANAGEMENT (84)

CRM (108)

DATA SERVICES (108)

**DEVELOPER SERVICES (85)** 

E-COMMERCE (68)

EDUCATION (69)

ERP (37)

FINANCE (218)

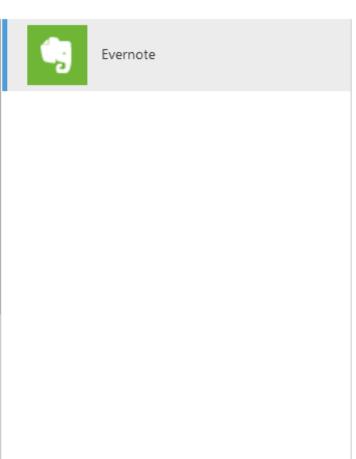
HEALTH (46)

**HUMAN RESOURCES (183)** 

IT INFRASTRUCTURE (116)

MAIL (20)

MARKETING (170)





NAME Evernote

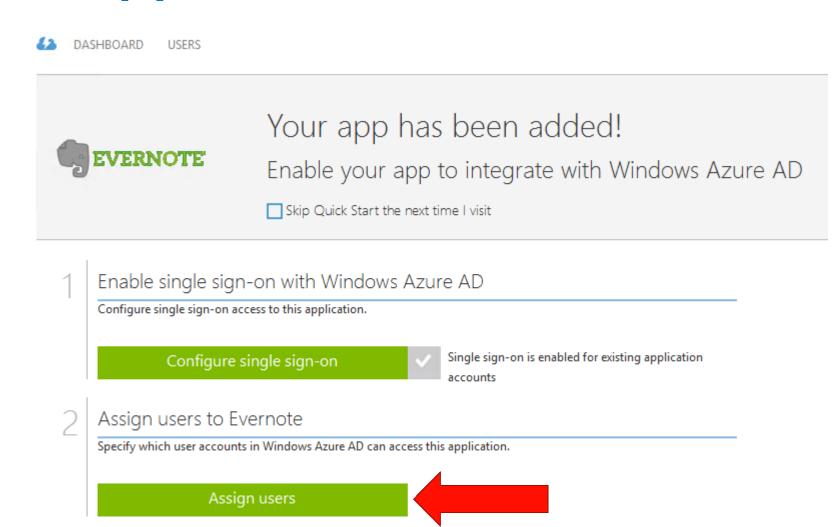
PUBLISHER Evernote Corporation

APPLICATION URL http://www.evernote.com/

Use Windows Azure AD to enable user access to Evernote.

Requires an existing Evernote subscription.





#### evernote

,	•	
•	_	

DASHBOARD

USERS

DISPLAY NAME	USER NAME	JOB TITLE	DEPARTMENT	ACCESS	METHOD	٥
Alexandra Zammit	thaz@ciaops365.com			No	Unassigned	
Barry Jones	barry.jones@kumoallianc			No	Unassigned	
Chris Green	chris@ciaops365e1.onmi	IT Manager	Information Technology	No	Unassigned	
CIAOPS Presenter	presenter@ciaops365e1			No	Unassigned	
Demo	SMO-Demo@kumoallian			No	Unassigned	
director@ciaops.com	director@ciaops.com			No	Unassigned	
Gordon Jackson	gordon.jackson@kumoal			No	Unassigned	
James Hill	james.hill@ciaops365e1			No	Unassigned	
Kevin Fyfe	thkf@ciaops365.com			No	Unassigned	4
Lewis Collins	lewis.collins@ciaops365				Unassigned	
Martin Shaw	martin.shaw@ciaops365e			No	Unassigned	
Pepper Potts	pepper.potts@ciaops365			No	Unassigned	
^ · ·						
	ASSIGN	EDIT ACCOUNT REMOV				3

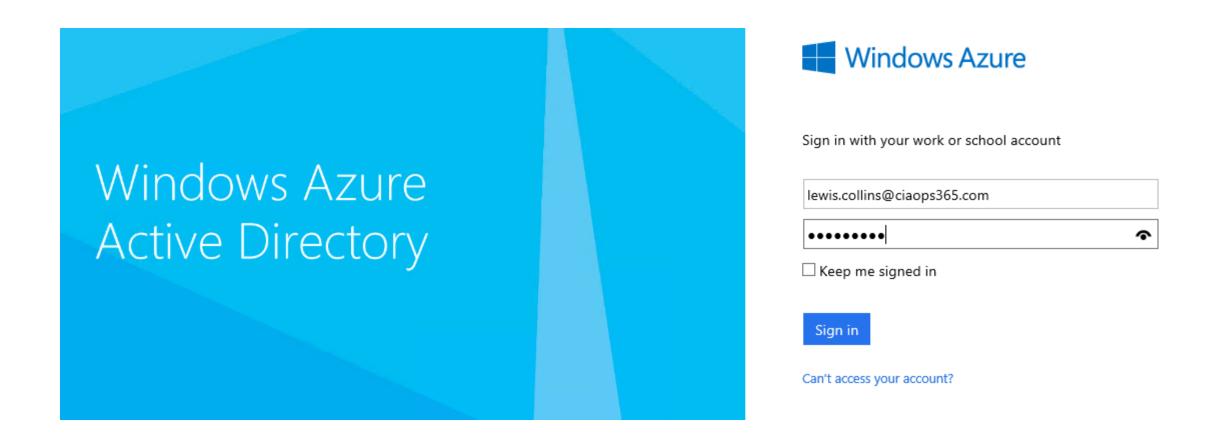
#### Assign Users

This action will allow the selected user to authenticate to the Evernote application from within the Access Panel. Users can enter and update their Evernote credentials using the Access Panel at any time.

✓	I want to enter Evernote credentials on behalf of the u	isei
Use	er Name	
Pas	sword	



			_
Kevin Fyfe	thkf@ciaops365.com	No	Unassigned
Lewis Collins	lewis.collins@ciaops365	Yes	Direct
Martin Shaw	martin.shaw@ciaops365e	No	Unassigned



http://myapps.microsoft.com

Microsoft Azure lewis.collins@ciaops365.com | CIAOPS

applications

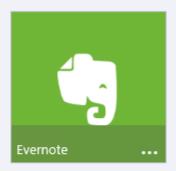
profile









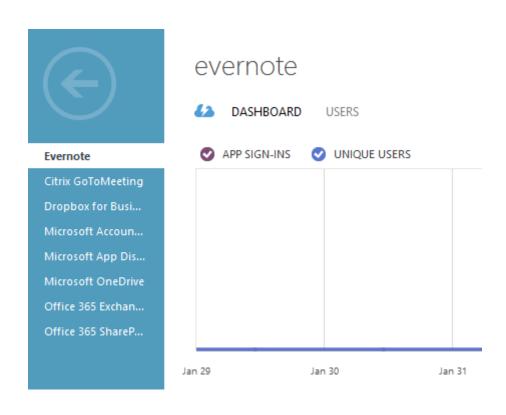


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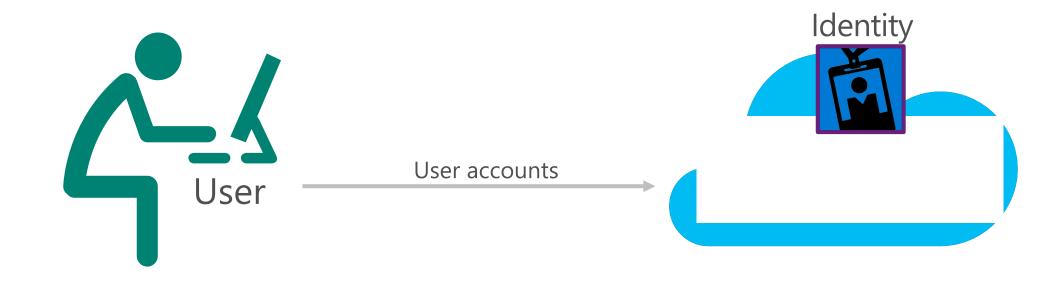


## Monitor an application

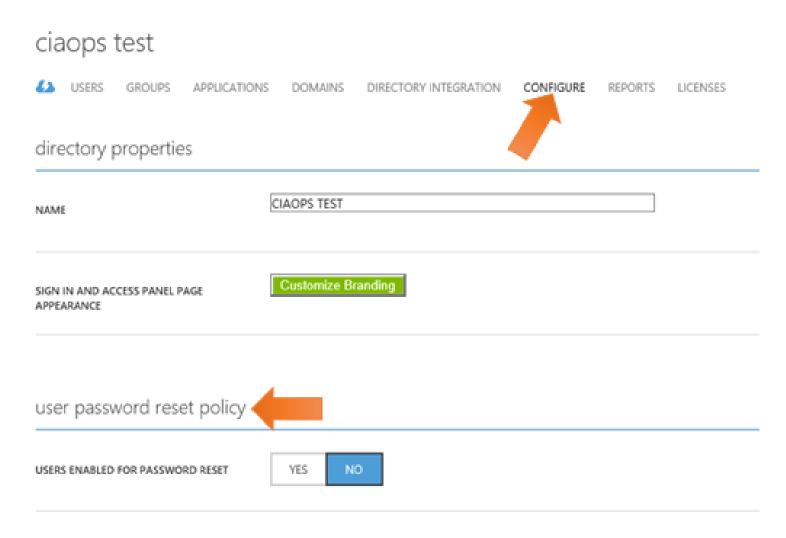


# Cloud Password Reset Portal

# Cloud identity model



## **Enable reset policy**



### User request password reset



#### Reset your password

#### User verification

To reset your password, begin by entering your user ID and the characters in the picture or audio below.



Enter the characters in the picture or the words in the audio.



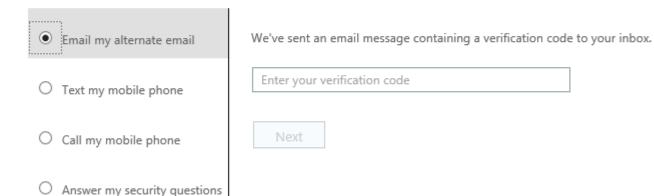
# User verifies identity



#### Reset your password

verification step 1 > choose a new password

Please choose the contact method we should use for verification:



Cancel

## User selects new password

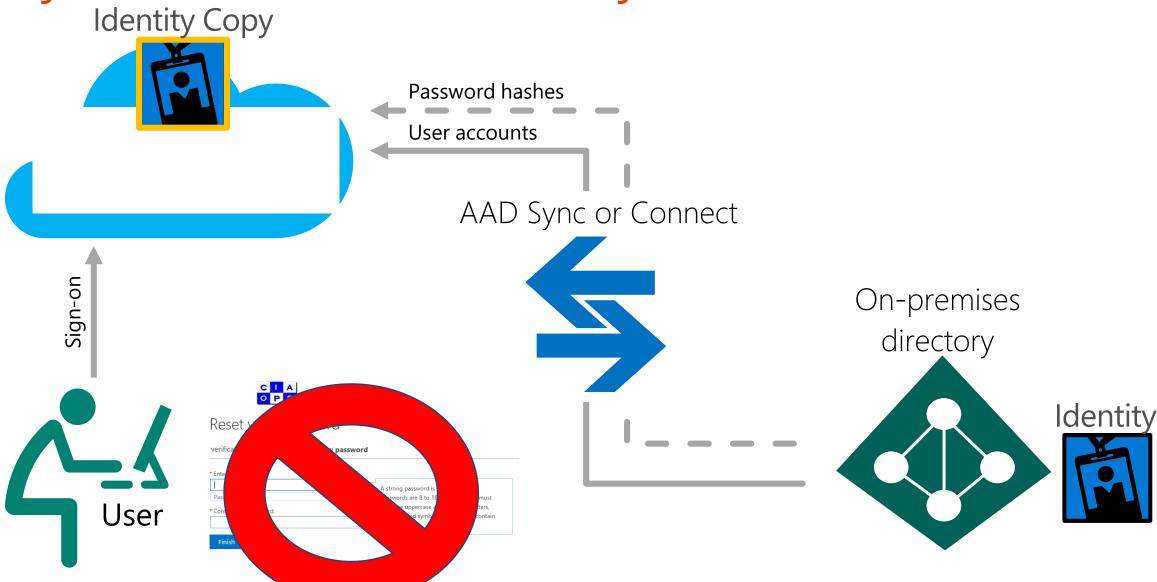


#### Reset your password

verification step 1 ✓ > choose a new password

	A strong password is required. Strong
Password strength	passwords are 8 to 16 characters and must
Confirm new password:	combine uppercase and lowercase letters, numbers, and symbols. They cannot contain your username.

# Synchronized Identity Model



Azure Active Directory editions feature comparison + Office 365 IAM features

		Azure Active Directory Free	Azure Active Directory Basic	Azure Active Directory Premium	Office 365 IAM features
	Directory as a Service	500,000 Object Limit	No Object Limit	No Object Limit	No Object limit for Office 365 user accounts
	Hear/Group Management (add/undate/delete)	Voc	Voc	Voc	Voc
	SSO to pre-integrated SAAS Applications /Custom Apps	10 apps per user	10 apps per user	No Limit	10 apps per user
Common	Oser-based access management/provisioning	res	res	res	res
Features	Self-Service Password Change for cloud users	Yes	Yes	Yes	Yes
	Identity Synchronization Tool (Windows Server Active Directory integration, Multi Forest)	Yes	Yes	Yes	Yes
	Security Reports	3 Basic Reports	3 Basic Reports	Advanced Security Reports	3 Basic Reports
	Cloud App Discovery*	Yes(Basic)	Yes(Basic)	Yes(Advanced)**	Yes(Basic)
	Group-based access management/provisioning		Yes	Yes	
Premium	Self-Service Password Reset for cloud users		Yes	Yes	
+ Basic Features	Company Branding (Logon Pages/Access Panel customization)		Yes	Yes	
	SLA		Yes	Yes	Yes
	Identity Synchronization Tool advanced write-back capabilities * (FY15 Roadmap)			Yes	
	Self-Service Group Management			Yes	
	Self-Service Password Reset/Change with on-premises write-back			Yes	
Premium	Advanced Usage Reporting			Yes	
Features	Multi-Factor Authentication (Cloud and On-premises (MFA Server))			Yes	Limited Cloud only features for accessing Office 365
	Azure Active Directory Application proxy*			Yes	
	MIM CAL + MIM Server			Yes	
	Administrative Delegation* (FY15 Roadmap)			Yes	

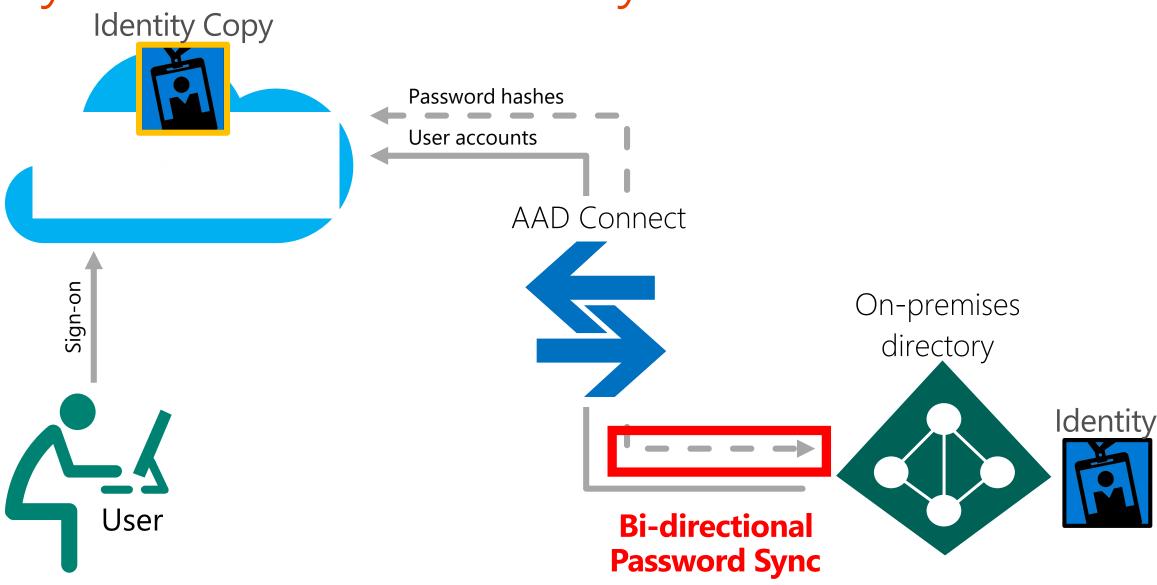
<sup>&</sup>quot;Features in Preview (Sept 2014) or in the roadmap

<sup>\*\*</sup> Advanced functionality on Cloud App Discovery is in the roadmap for FY15 H2

<sup>10</sup> Apps per user: Every user can have a different set of Apps, up to ten. MS Online apps (a.g. 0365) are counted among these 10.

# Password Write Back

# Synchronized Identity with Writeback





Welcome

Install Prerequisites

Install Sync Services

Connect to Azure AD

User Sign-In

Sync

Connect Directories

Sync Filtering

On-Premises Identities

Azure Identities

Optional Features

Configure

### Optional features

Select enhanced functionality if required by your organization.

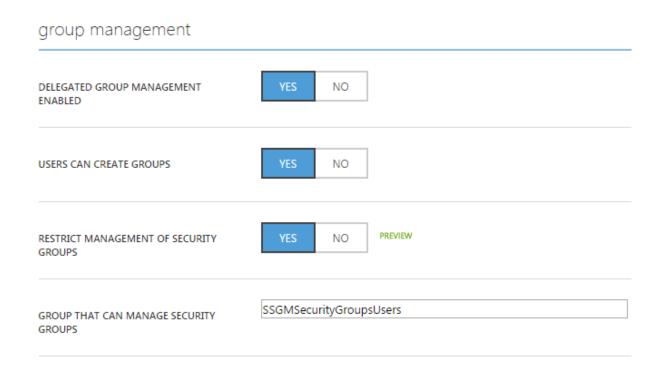
- ☐ Exchange hybrid deployment ②
- Azure AD app and attribute filtering ?
- ✓ Password writeback ?
- User writeback (Preview) ?
- Group writeback (Preview) ?
- Device writeback (Preview) ?
- Device sync (Preview) ?
- ☐ Directory extension attribute sync (Preview) ②

Learn more about optional features

# Group Management

# Group Management: Configuration

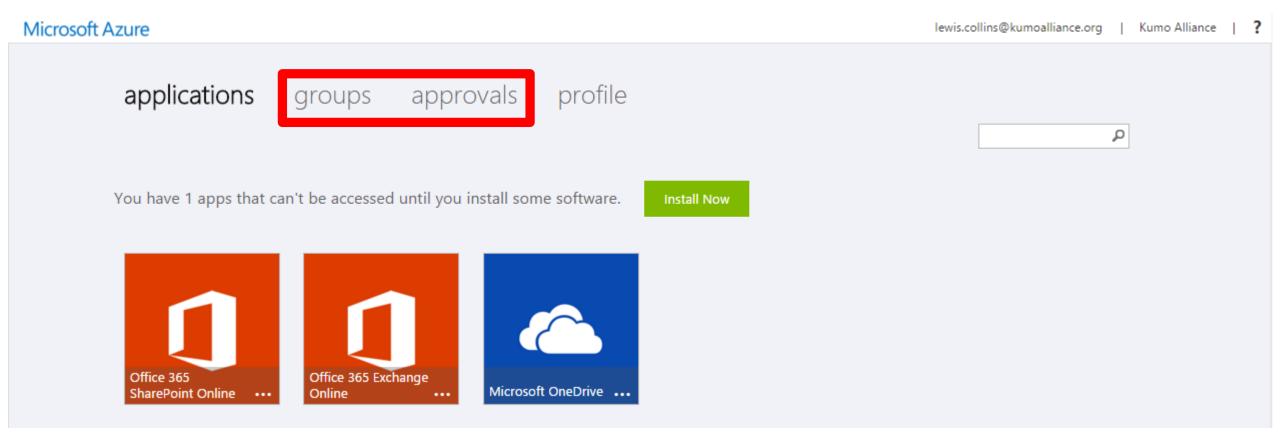
### Azure Portal configuration



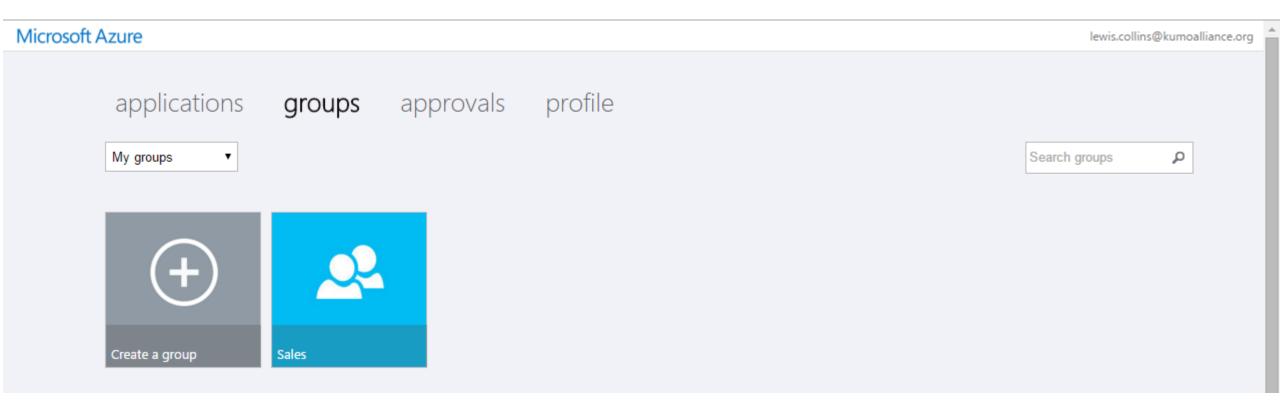
#### Admins can...

- Allow users to join existing groups, but not create
- Allow users to create their own groups
- Restrict feature availability to a specific group
- Report on group activity

# Group Management



## Group Management



# Application Proxy

### Remote Access as a Service

# Easy to deploy and operate: minimal on-prem footprint

Secure remote access to business applications with zero DMZ on-prem infrastructure deployment and no network infrastructure change.

### More secure to the business: pre-DMZ protection

All security verifications are outside of the organization premises done in cloud scale. DDoS attacks will not influence your business.

### Deep integration with Azure Active Directory

Richness of AAD capabilities and experiences: web access panel discovery and SSO, manage apps across SaaS and on-prem, machine learning traffic analysis, multifactor authentication, device registration, cloud ADFS proxy deployment.



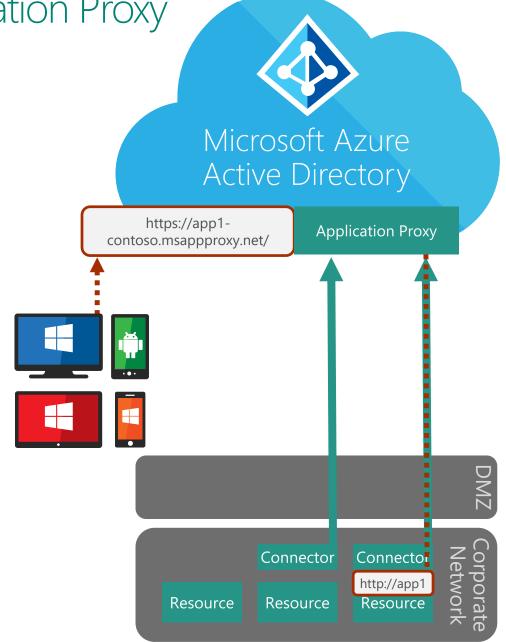
Azure Active Directory Application Proxy

A connector that auto connects to the cloud service

Multiple connectors can be deployed for redundancy, scale, multiple sites and different resources

Connectors are deployed usually on the local network next to resources

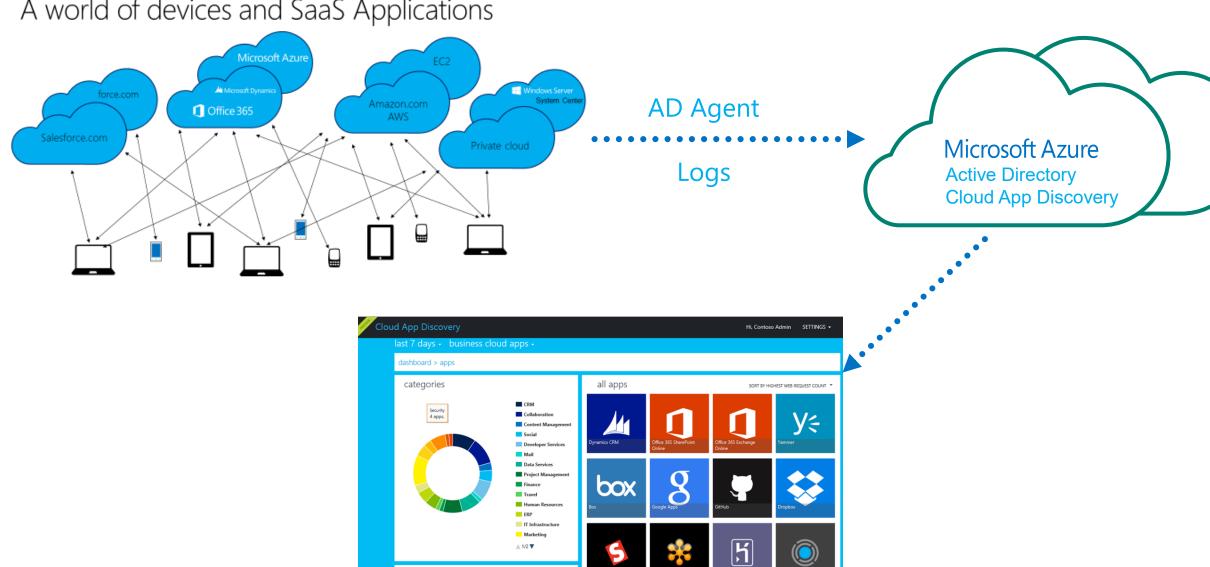
Users connect to the cloud service that routes their traffic to the resources via the connectors



## Cloud App Discovery

## Cloud app discovery

A world of devices and SaaS Applications



top categories

### Discover all SaaS apps in use within your organization

10 x as many Cloud apps are in use than IT estimates

Source: Help Net Security 2014

### 

# Azure Active Directory Cloud App Discovery

Comprehensive reporting

- SaaS app category
- Number of users
- Utilization volume



## Advanced Reporting

## Reports

REPORT	DESCRIPTION	
▲ ANOMALOUS ACTIVITY		
Sign ins from unknown sources	May indicate an attempt to sign in without being traced.	
Sign ins after multiple failures	May indicate a successful brute force attack.	
Sign ins from multiple geographies	May indicate that multiple users are signing in with the same account.	
Sign ins from IP addresses with suspicious activity	May indicate a successful sign in after a sustained intrusion attempt.	
Sign ins from possibly infected devices	May indicate an attempt to sign in from possibly infected devices.	
Irregular sign in activity	May indicate events anomalous to users' sign in patterns.	
Users with anomalous sign in activity	Indicates users whose accounts may have been compromised.	
Users with leaked credentials	Users with leaked credentials	
Users with threatened credentials	Users with threatened credentials	
▲ ACTIVITY LOGS		
Audit report	Audited events in your directory	
Password reset activity	Provides a detailed view of password resets that occur in your organization.	
Password reset registration activity	Provides a detailed view of password reset registrations that occur in your organization.	
Self service groups activity	Provides an activity log to all group self service activity in your directory	
✓ INTEGRATED APPLICATIONS		
Application usage	Provides a usage summary for all SaaS applications integrated with your directory.	
Account provisioning activity	Provides a history of attempts to provision accounts to external applications.	
Password rollover status	Provides a detailed overview of automatic password rollover status of SaaS applications.	
Account provisioning errors	Indicates an impact to users' access to external applications.	
✓ RIGHTS MANAGEMENT		
RMS usage	Provides a summary for Rights Management usage	
Most active RMS users	Lists top 1000 active users who accessed RMS-protected files	

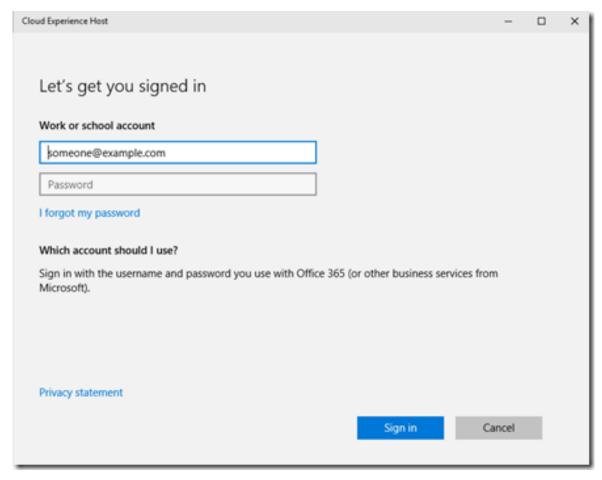
## Advanced Multi Factor

### Azure MFA vs MFA for Office 365

	MFA for Office 365/Azure Administrators	Azure Multi-Factor Authentication
Administrators can Enable/Enforce MFA to end-users	Yes	Yes
Use Mobile app (online and OTP) as second authentication factor	Yes	Yes
Use Phone call as second authentication factor	Yes	Yes
Use SMS as second authentication factor	Yes	Yes
Application passwords for non-browser clients (e.g. Outlook, Lync)	Yes	Yes
Default Microsoft greetings during authentication phone calls	Yes	Yes
Suspend MFA from known devices	Yes	Yes
Custom greetings during authentication phone calls		Yes
Fraud alert		Yes
MFA SDK		Yes
Security Reports		Yes
MFA for on-premises applications/ MFA Server.		Yes
One-Time Bypass		Yes
Block/Unblock Users		Yes
Customizable caller ID for authentication phone calls		Yes
Event Confirmation		Yes
Trusted IPs		Yes

## Other considerations

### Windows 10 - Connect to Azure AD





https://www.youtube.com/watch?v=qpPYmGV5GjM

#### Resources

- Azure AD Connect http://blog.ciaops.com/2015/07/azure-ad-connect-toolthe-basics.html
- Azure AD Core Skills Jumpstart https://mva.microsoft.com/en-US/trainingcourses/azure-active-directory-core-skills-jump-start-8736
- Azure AD Fundamentals Virtual Lab https://vlabs.holsystems.com/vlabs/technet?eng=VLabs&auth=external&src=vlabs&altadd=tru e&labid=13535
- Enabling your Office 365 Azure AD http://blog.ciaops.com/2015/01/enabling-your-office-365-azure-ad.html
- Azure AD Connect tool the basics http://blog.ciaops.com/2015/07/azure-adconnect-toolthe-basics.html
- Configuring an Azure Single Sign On portal http://blog.ciaops.com/2015/02/configuring-azure-sso-portal.html

### Resources

- Creating a single Sign on portal using Azure [VIDEO] http://blog.ciaops.com/2015/03/creating-single-sign-on-portal-using.html
- Enabling self-service password resets in Office 365 http://blog.ciaops.com/2015/02/enabling-self-service-password-resets.html
- Connect Windows 10 to Azure AD http://blog.ciaops.com/2015/07/connect-windows-10-to-azure-ad.html
- Azure AD Editions feature comparison http://blog.ciaops.com/2015/08/azure-ad-editions-feature-comparison.html
- Using Azure AD B2B sharing with SharePoint Online –
   http://blog.ciaops.com/2015/11/using-azure-ad-b2b-sharing-with.html

### **CIAOPS Resources**



- Blog http://blog.ciaops.com
- Free SharePoint Training via email http://bit.ly/gs-spo
- Free Office 365, Azure Administration newsletter http://bit.ly/o365-tech
- Free Office 365, Azure video tutorials http://www.youtube.com/directorciaops
- Free documents, presentations, eBooks http://docs.com/ciaops
- Office 365, Azure, Cloud podcast http://ciaops.podbean.com
- Office 365, Azure online training courses http://www.ciaopsacademy.com
- Office 365, Azure eBooks http://www.ciaops.com/publications