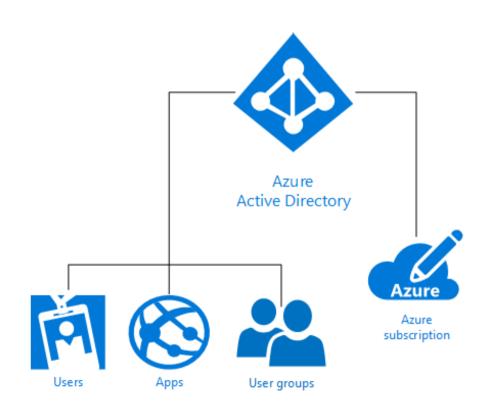
Identity and Access Essentials

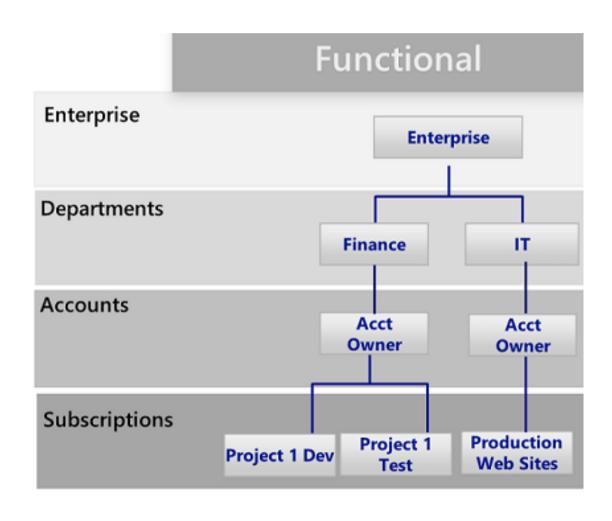
Terms to Know

- Azure Subscription
- Azure Tenant
- Azure AD Directory
- Custom Domain
- Azure Subscription Administrator
- Azure AD Global Administrator

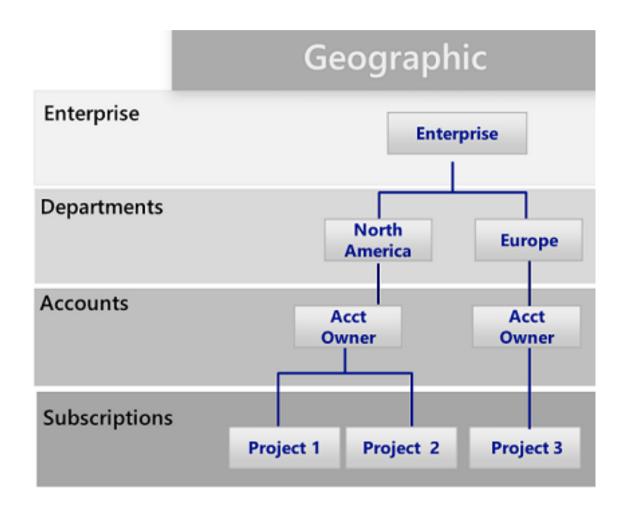
Tenant, Subscription, Administrator...



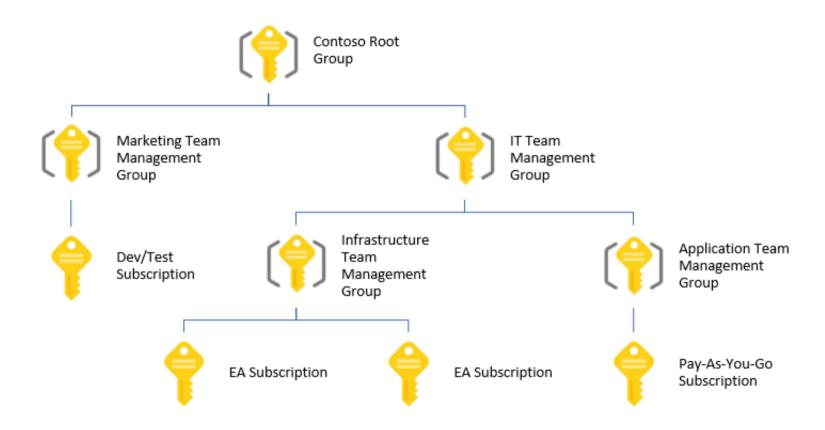
Subscription Governance



Subscription Governance



Management Groups



Management Groups

- Organize subscriptions into containers called "management groups"
- Apply governance conditions to the management groups
- All subscriptions within a management group automatically inherit the conditions applied to the management group
- Max six levels deep (total 10,000 management groups)

Subscription Governance

- P & P Guidance
 - https://docs.microsoft.com/en-us/azure/architecture/best-practices/naming-conventions
- Resource Tags
 - Billing
 - Service Context Identification
- Policies

Policies and Auditing

- Geo-compliance/data sovereignty ensure resources are created close to the end consumers of the resources
- Cost management ensure that standard subscriptions avoid using unnecessarily large resources
- **Default governance through required tags** ensure that a resource is appropriately tagged. Department, Resource Owner, and Environment type (for example production, test, development)

Why Azure AD?



Single-sign On to thousands of 3rd party SaaS application from any device



Unique Risk-based Identity Protection



More options for authentication than any other vendor.



Conditional



Office 365 Integration



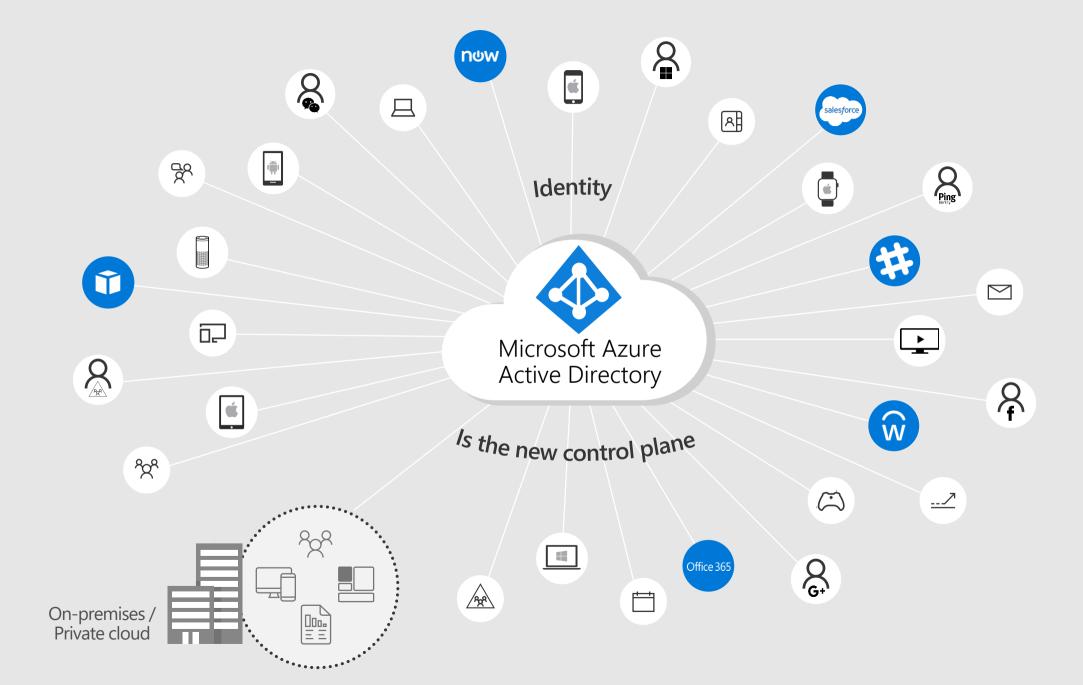
Advanced Security Reporting



Secure remote access to onpremises apps.

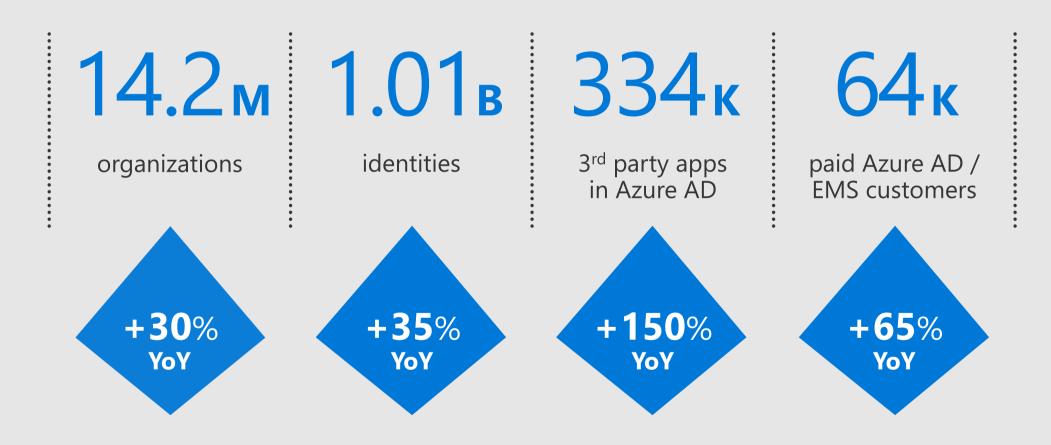


Holistic security solution with Enterprise Mobility + Security (EMS)



Azure Active Directory in the Marketplace

— Every Office 365 and Microsoft Azure customer uses Azure Active Directory —

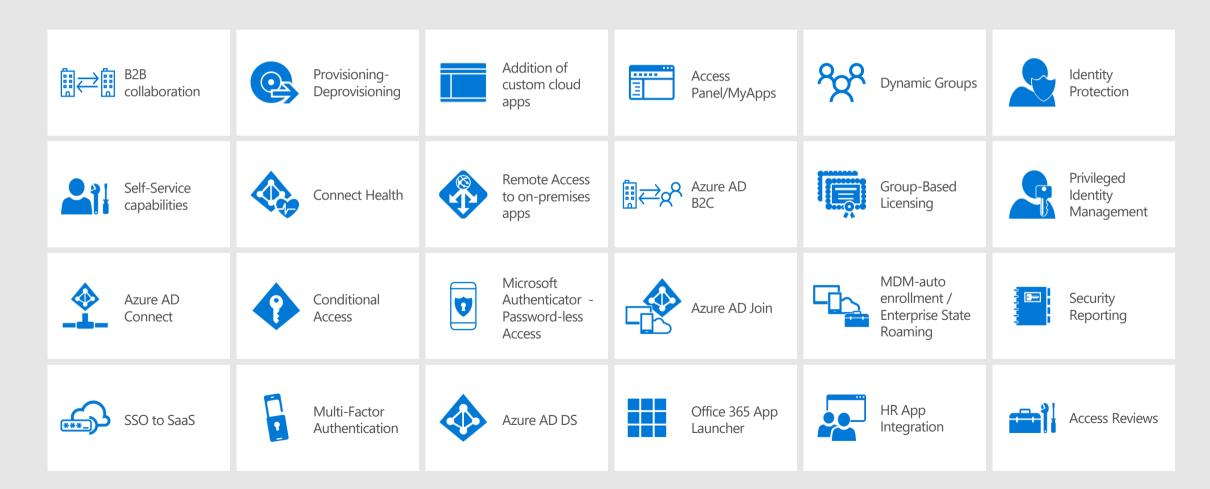


90%

of Fortune 500 companies use Azure AD

Azure Active Directory

— Identity and access management for employees, partners, and customers —



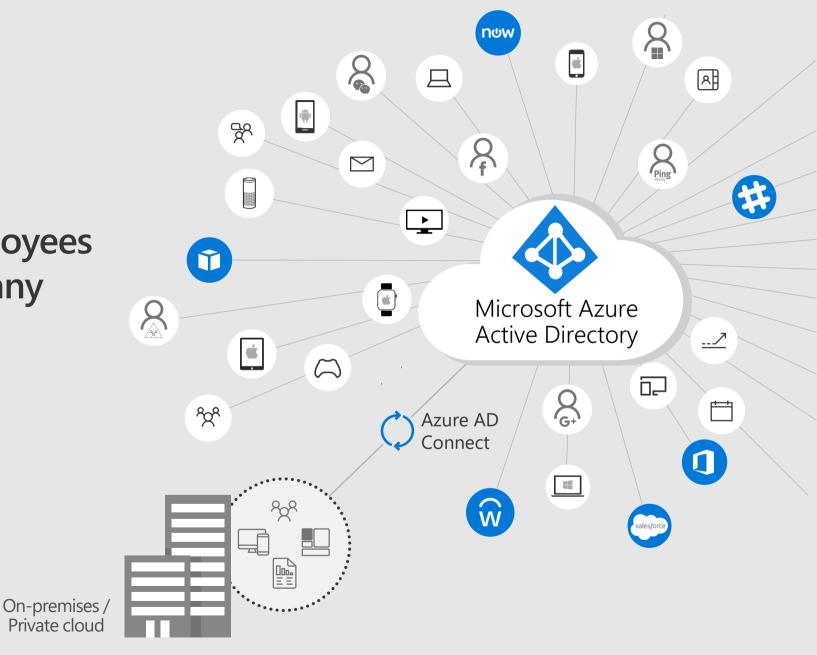


I want to provide my employees access to every app from any location and any device

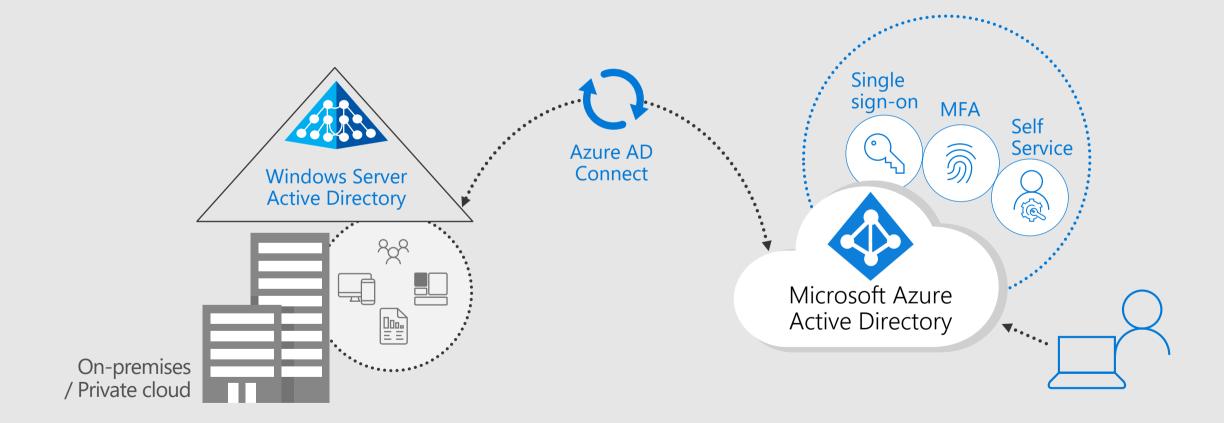
Hybrid

1 Identity

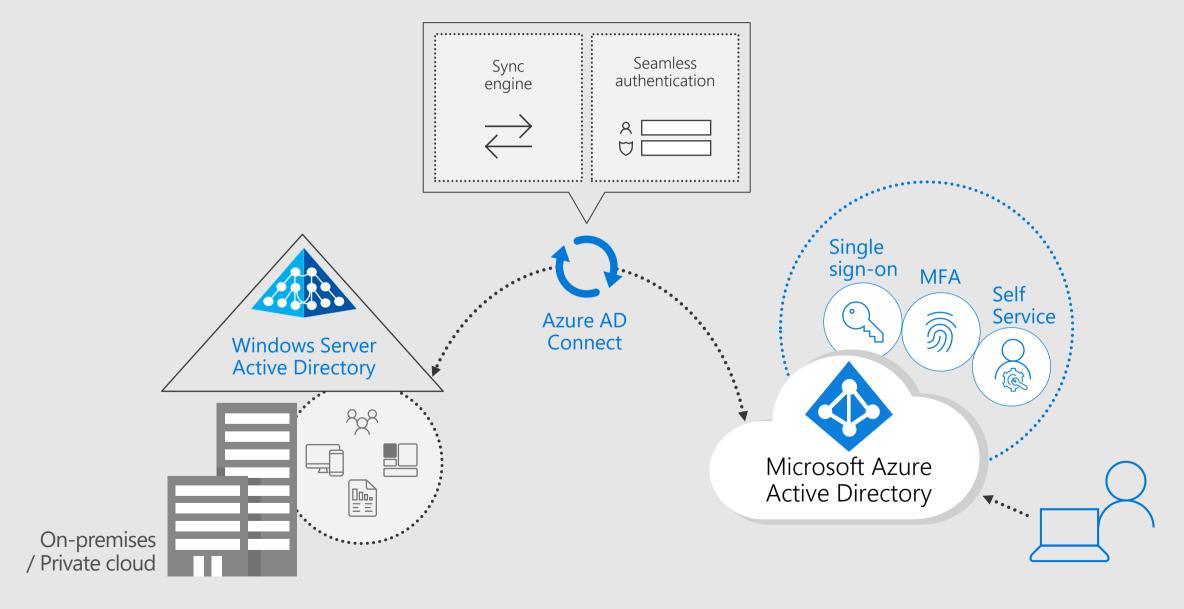
Multiple apps



Hybrid

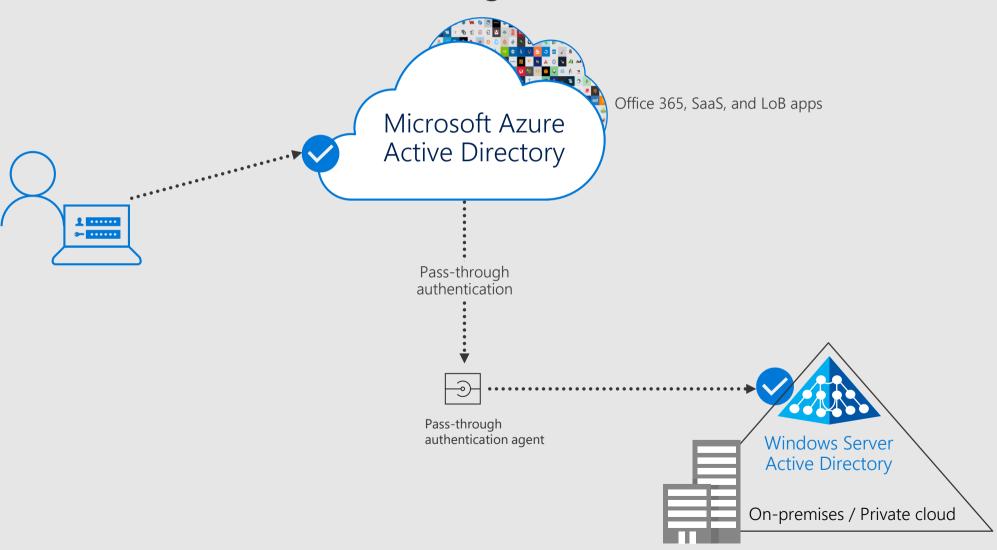


1 Identity

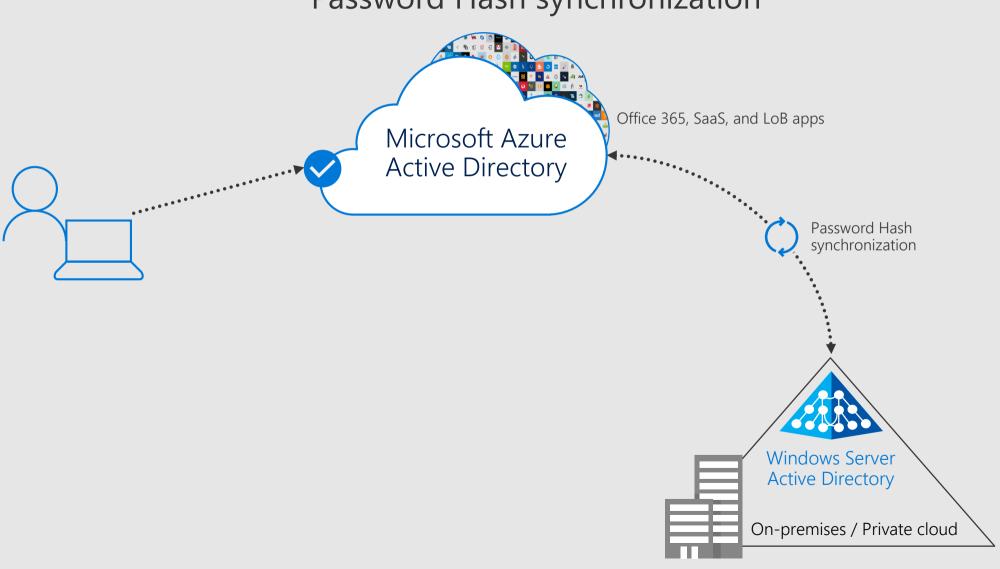


Azure AD Connect authentication options

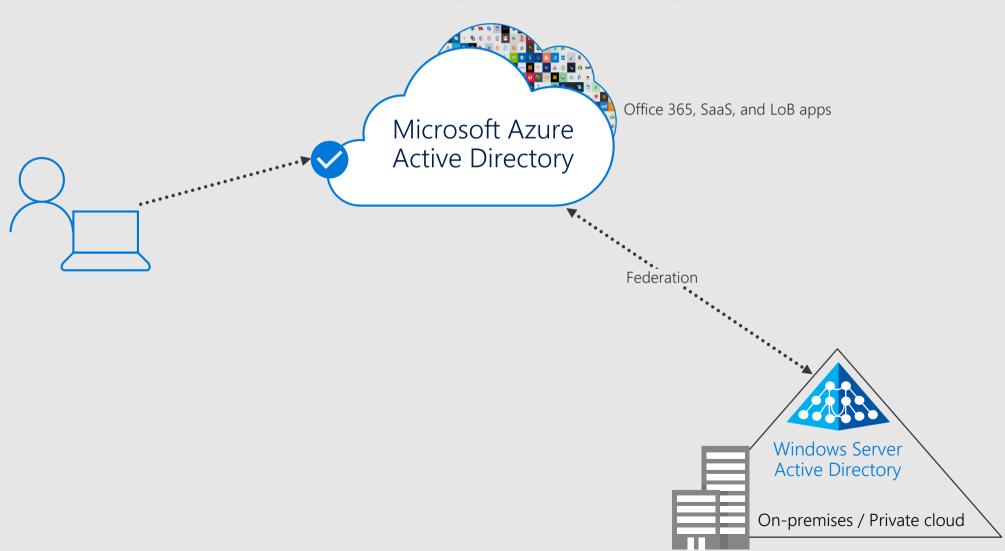
Pass-through authentication



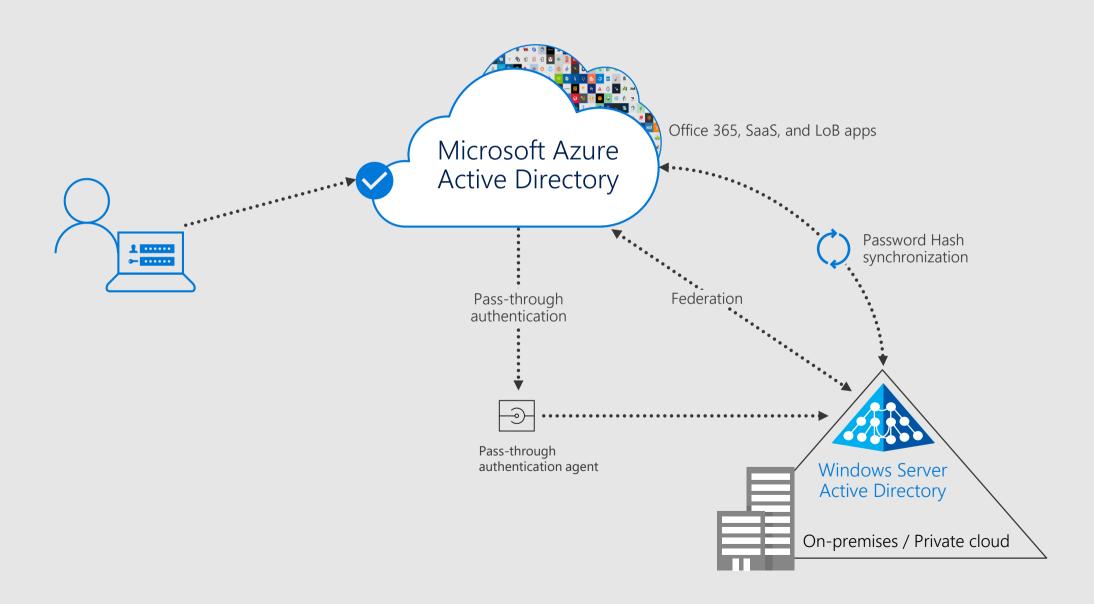
Azure AD Connect authentication options Password Hash synchronization



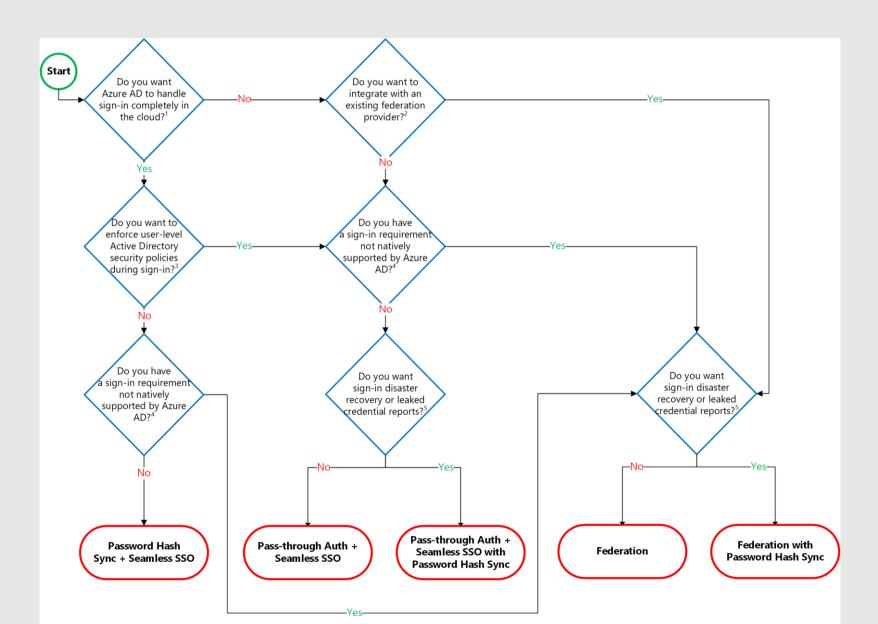
Azure AD Connect authentication options Federation via ADFS



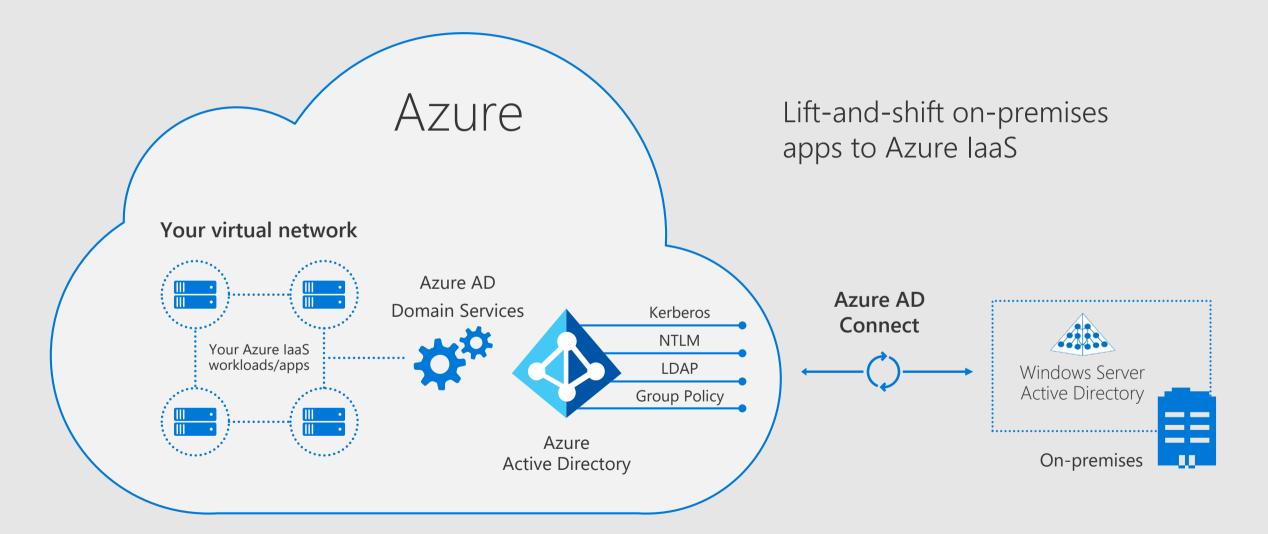
Hybrid authentication options



Hybrid Decision Tree



Azure Active Directory Domain Services



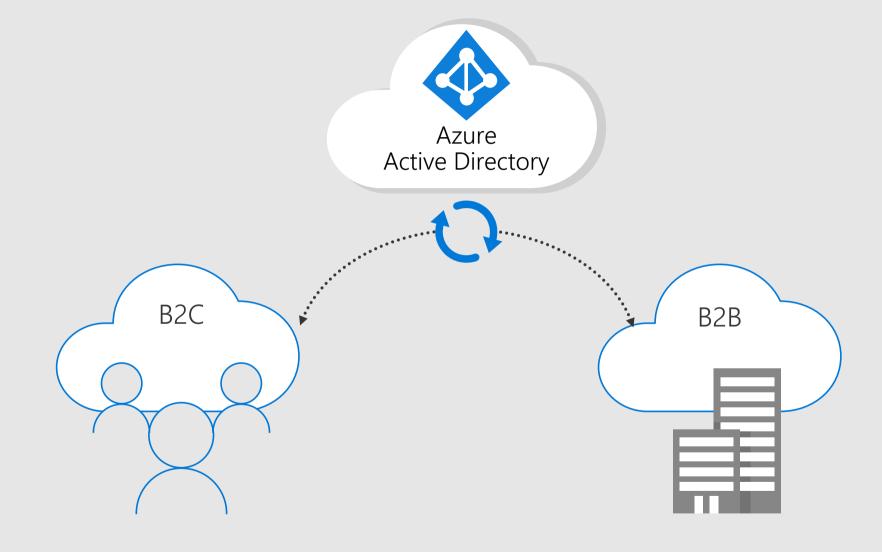


I want my customers and partners to access the apps they need

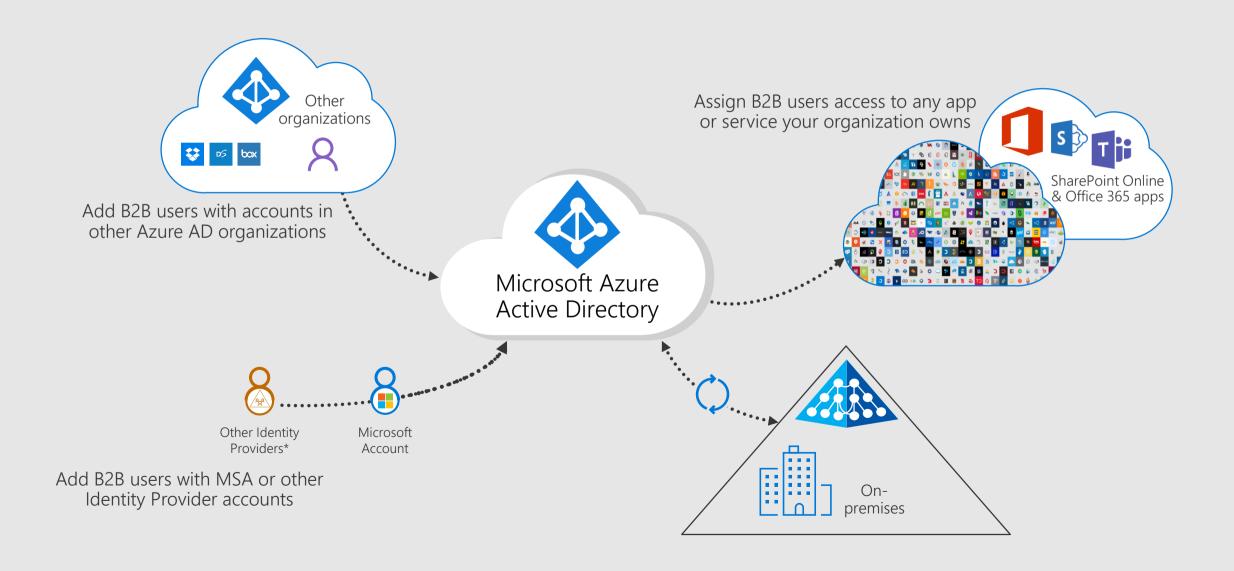
Secure collaboration

Simple sign-in and sign-up

Branded experience



Azure AD B2B collaboration



Azure Active Directory B2C

- Securely authenticate your customers using their preferred identity provider
- Capture login, preference, and conversion data for customers
- Provide branded (white-label) registration and login experiences





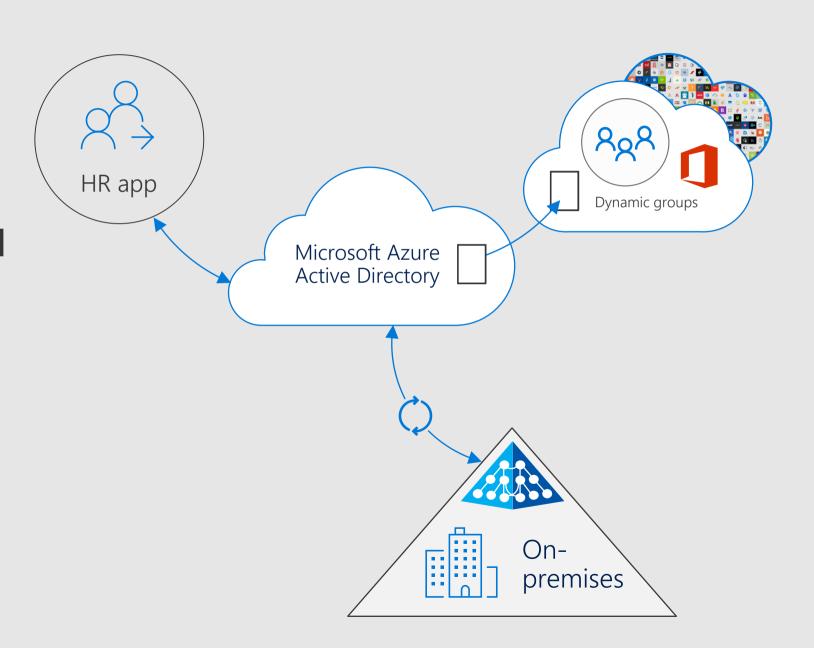


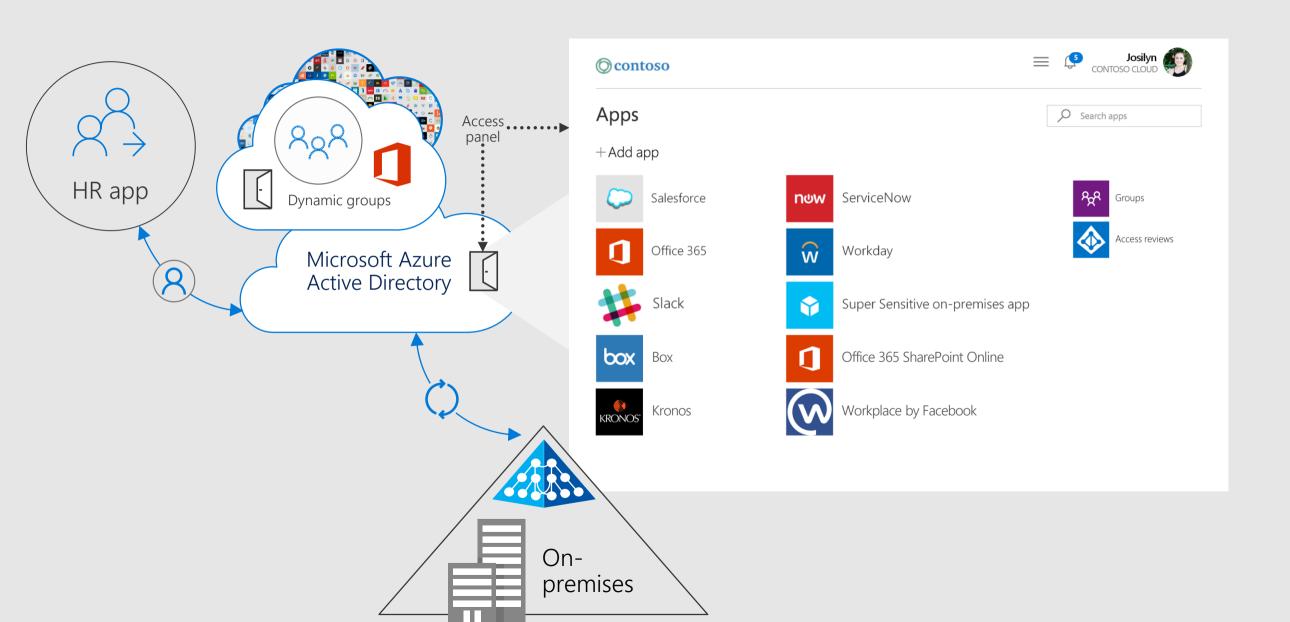
I want to automate the user identity lifecycle and cut down on helpdesk costs

Join/Move/Leave

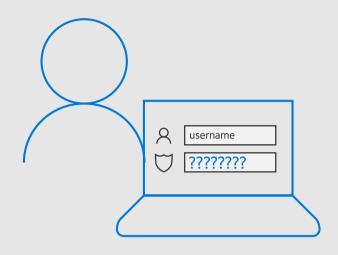
Self-service capabilities

Access reviews

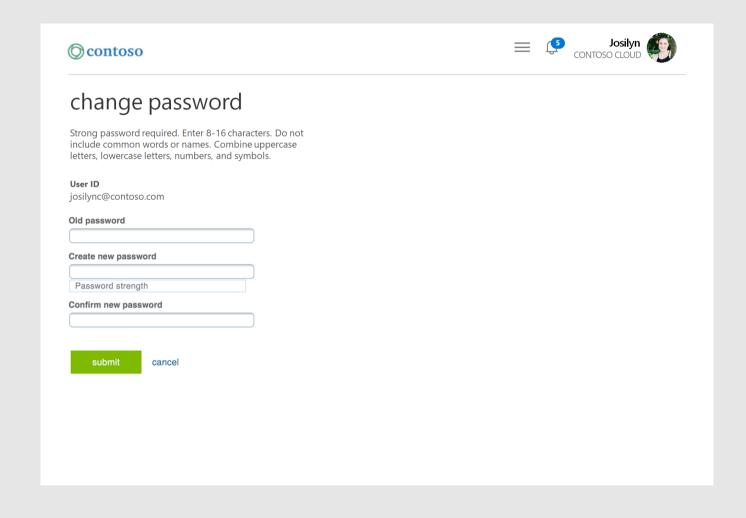




Self service password reset



- Resolving password issues for users is one of the largest IT costs
- Self-service password reset empowers users and reduces administration costs



Azure Active Directory Join for Windows 10

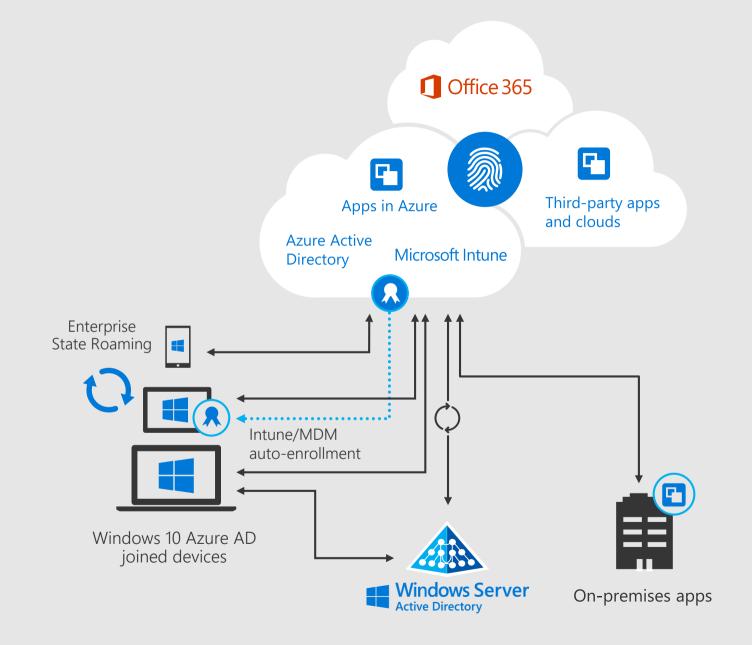
Azure Active Directory Join makes it possible to connect work-owned Windows 10 devices to your company's Azure Active Directory

Enterprise-compliant services

SSO from the desktop to cloud and on-premises applications with no VPN

MDM auto-enrollment

Support for hybrid environments



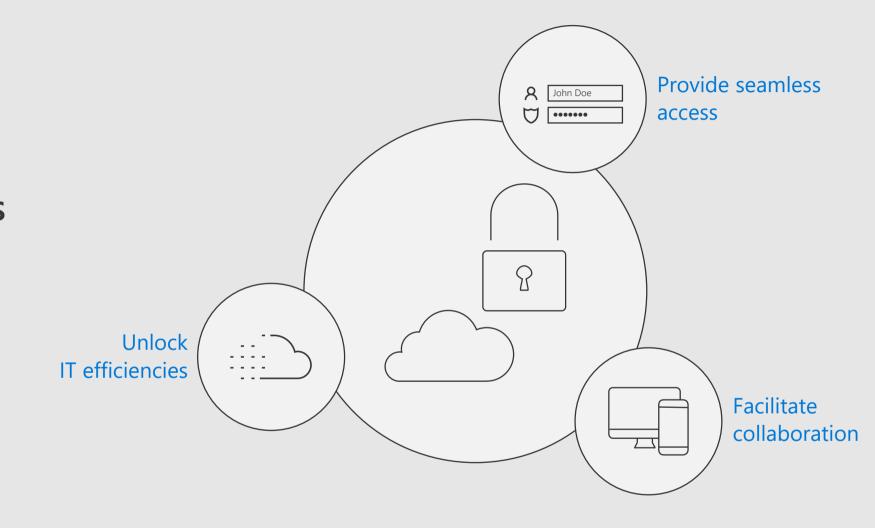


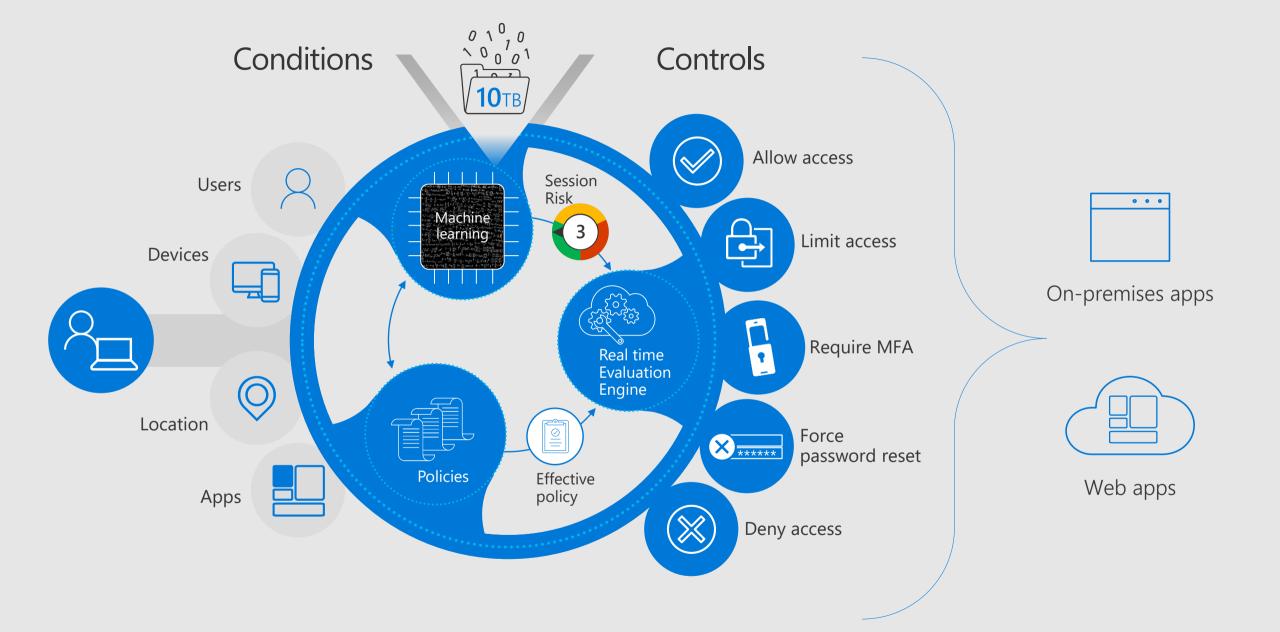
I want to protect access to my resources from threats

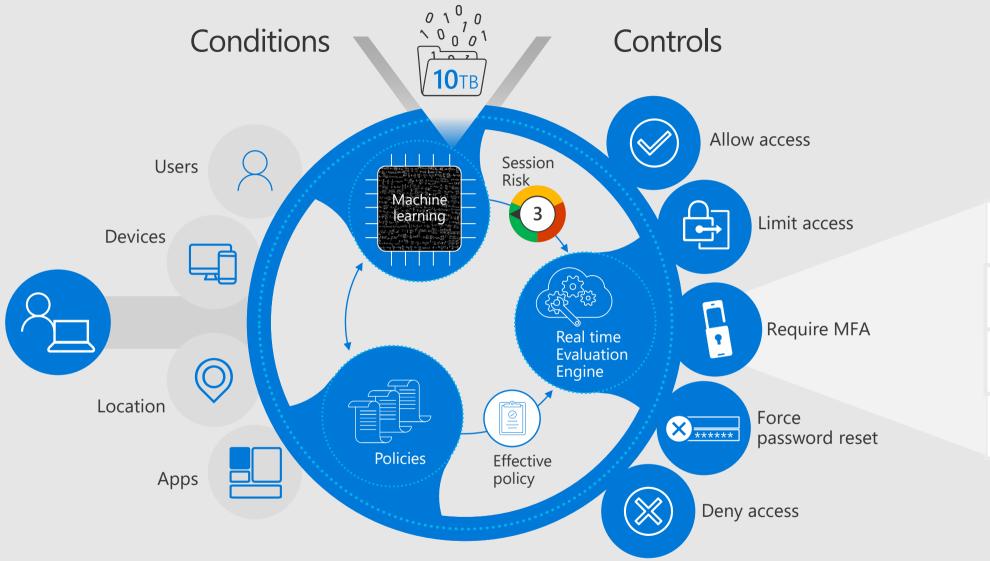
Cloud intelligence

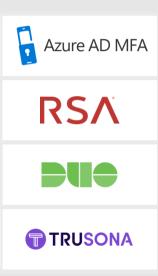
Dynamic protection

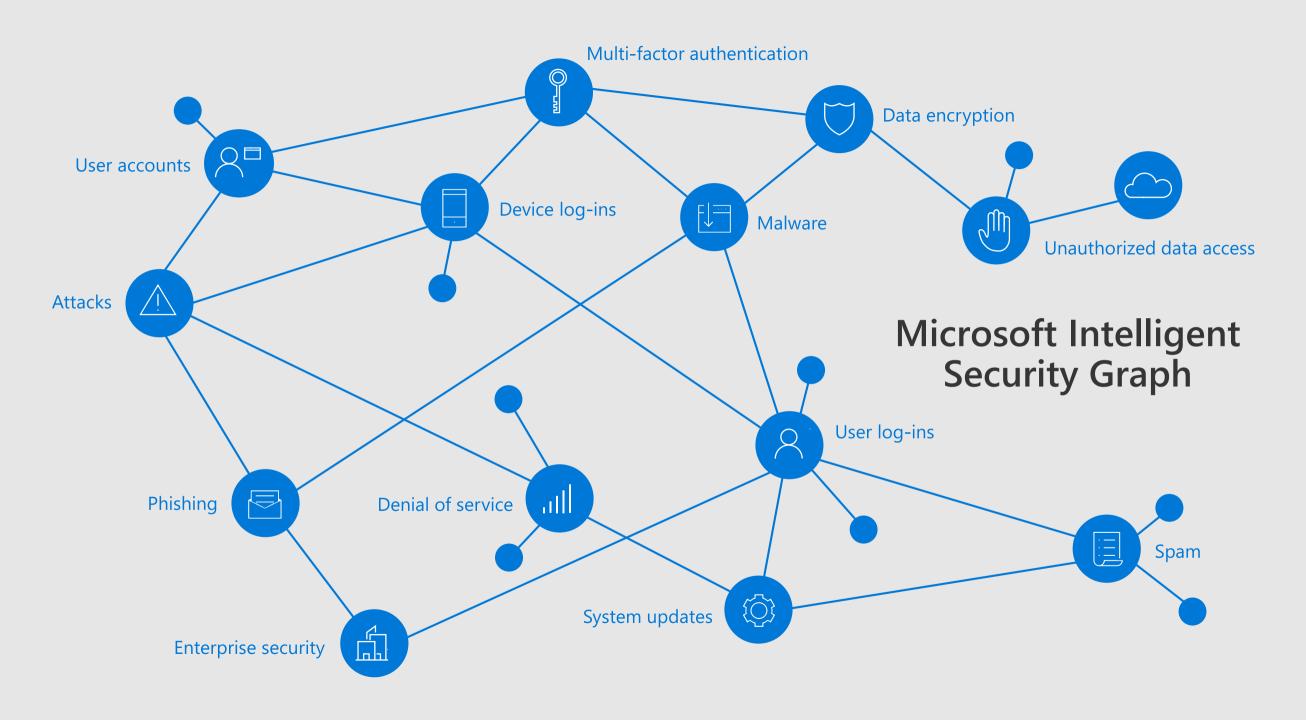
Machine learning





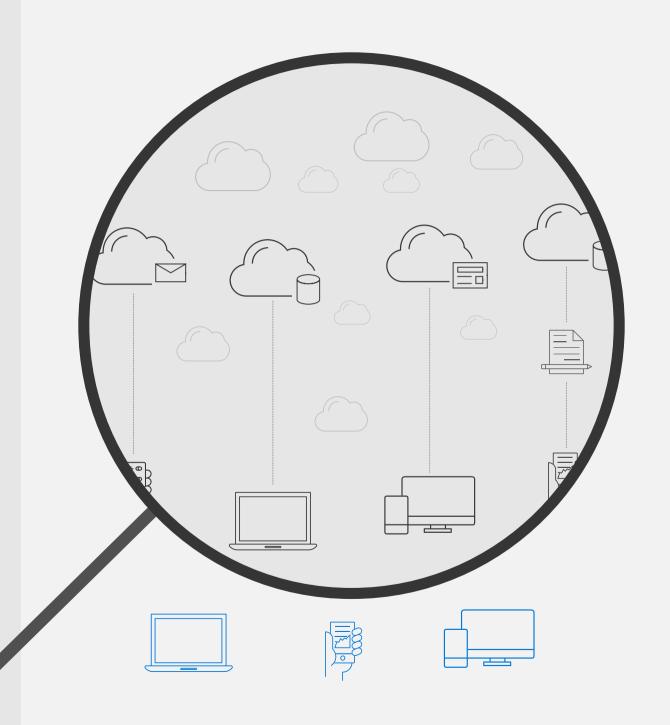






Cloud App Discovery

- Discover the cloud apps being used on your network
- View user and app based usage information
- Powered by Microsoft Cloud App Security

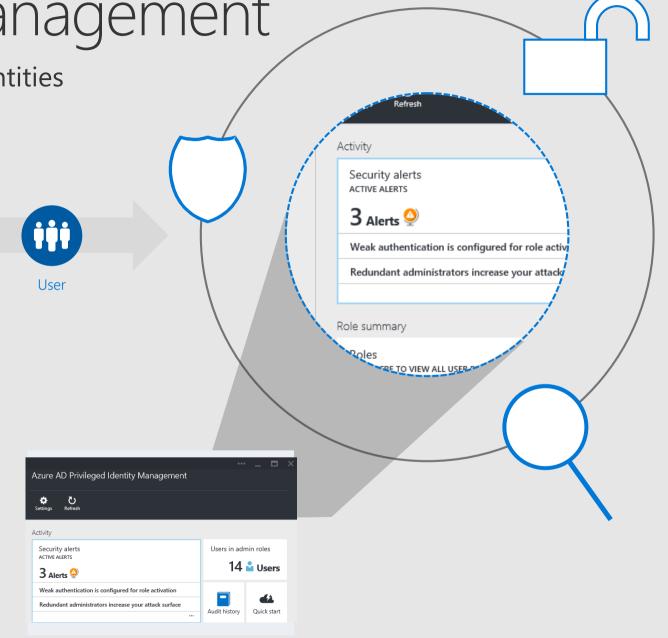


Privileged Identity Management

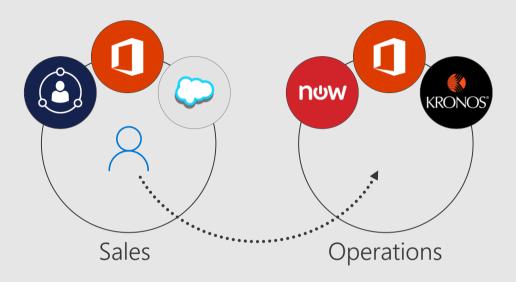
Discover, restrict, and monitor privileged identities



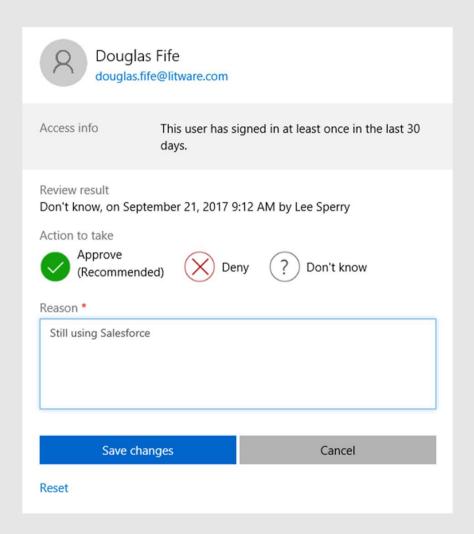
- Enforce on-demand, just-in-time administrative access when needed
- Ensure policies are met with alerts, audit reports and access reviews
- Manage admins access in Azure AD and also in Azure RBAC



Access Reviews



- Provide oversight for which users have access to what resources
- Prompts users to ensure their access is limited to the resources they need
- Applies to employees and guest users



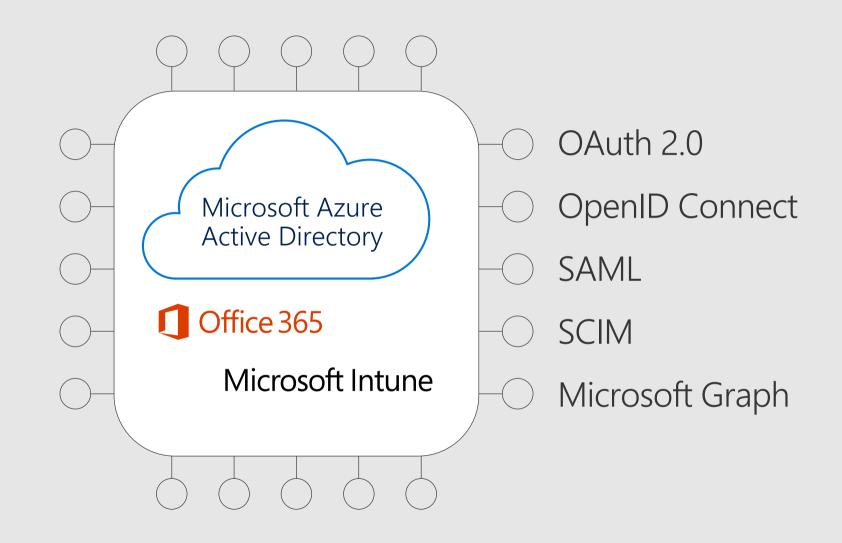


I want to build apps that work with corporate identities in Azure AD

Open Standards

Microsoft Graph

Customer Journeys



Microsoft Graph

HTTPS://GRAPH.MICROSOFT.COM

















Azure AD

Excei

Intune

Outlook

DneDrive

OneNote

SharePoint

Single API that proxies multiple Microsoft services

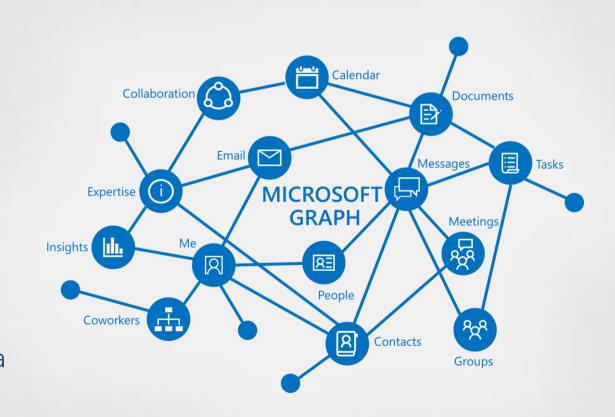
Allows for easy traversal of objects and relationships

Eliminates the need to discovery endpoints

Only one access token needed

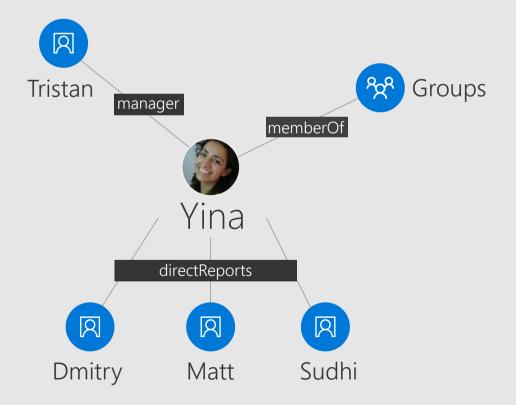
For both personal and work and school accounts

Exposing User data, Group data and Organizational data



With Microsoft Graph

Get the user profile



```
GET: /users/yina
  "displayName": "Yina",
  "jobTitle": "PRINCIPAL PM MANAGER"
GET: /users/yina/photo/$value
Stream image/ipea
GET: /users/yina/manager
{"displayName": "Tristan", ...}
GET: /users/yina/directReports
"value" : [
  {"displayName": "Matt", ...},
  {"displayName": "Dmitry", ...},
GET: /users/yina/memberOf
"value" : [
  {"displayName": "Office engineering", ...},
  {"displayName": "Women in tech", ...}
```