



Weekly Technical Office Hours for Partners

Remote Work in challenging times

Wednesday, April 1, 2020

The meeting will start at
GMT 11:00 - CET 12:00 – CEE 13:00

Technical Office Hours for WE Microsoft Partners:

Remote Work in challenging times



Agenda

1. **Introduction**
2. **O365 Networking Principles**
 - Basic Networking Principles
 - Optimization
 - Demo – O365 Network Onboarding tool
3. **Identity and Access Management**
 - Overview
 - AAD Connect
4. **How to get further help**
 - Support channels and options
5. **Q & A**
6. **Poll – Proposed topics for next session**

Our Virtual Team



Sara Canteiro

Partner Tech. Architect (Teams)



Jos Verlinde

Partner Tech. Architect (Teams)



Stefano Ceruti

Partner Tech. Architect (Teams)



Hans Hofkens

Partner Tech. Architect (Security)



Juha Saarinen

Partner Tech. Architect (Teams)



Philippe Goldstein

Partner Tech. Manager



Luke Kennedy

Partner Tech. Strategist



Giorgio Cifani

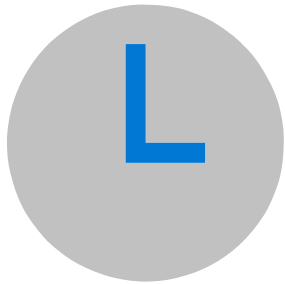
Partner Tech. Architect (Teams)



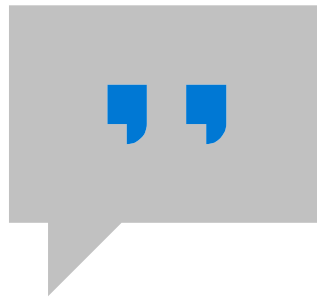
Marius Ieta

Partner Tech. Consultant (MW)

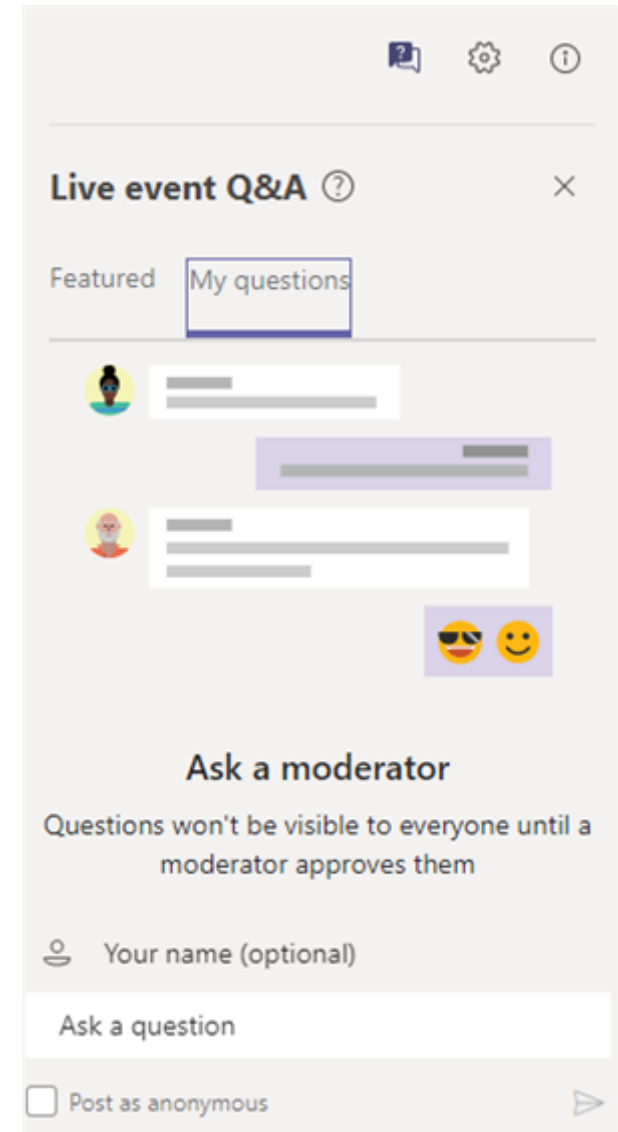
WE Weekly Technical Office Hours – How it works



60 minutes
40 min, presentation
20 min, Q&A



Questions via
chat through
Q&A 



WE Weekly Technical Office Hours

- **Goal:** address the main technical topics around working remotely and leveraging Microsoft technology (incl. Teams, Security, Power Platform, Windows Virtual Desktop...)
- Weekly Sessions – aka.ms/WE-TechOfficeHours
 - **Wednesdays** at **12:00 – 13:00 CET** (11:00 – 12:00 WEST, 13:00 – 14:00 EEST)
 - **Fridays** at **13:00 – 14:00 CET** (12:00 – 13:00 WEST, 14:00 – 15:00 EEST)

NEXT WEEK

- **Thursday April 9, 13:00 – 14:00 CET** (12:00 – 13:00 WEST, 14:00 – 15:00 EEST)
- Hosted and moderated by **experts** on these topics, from **WE OCP Technical Team**, **EMEA Partner Tech Services** and **Corp Engineering Team**

(WEEKLY) Technical Office Hours for WE Microsoft Partners:

Remote Work in challenging times

<https://aka.ms/WE-TechOfficeHours>



Currently we are receiving a lot of questions from our customers with regards to recommendations and help on working remotely.

To address the **main technical topics** around **working remotely**, Microsoft's Western Europe OCP Technical Team is setting up a series of Weekly **Office Hours for Partners**,

- every **Wednesday** at **12:00 – 13:00 CET** (11:00 – 12:00 WEST)
- every **Friday** at **13:00 – 14:00 CET** (12:00 – 13:00 WEST)

Note: on the week before Easter, exceptionally, we'll have **a single session** on

- Thursday **April 9** at **13:00 – 14:00 CET** (12:00 – 13:00 WEST)

All sessions will be held in **English**.

Next
Session
Details

Upcoming
Sessions

Materials &
Recordings

Other
Resources

Wednesdays



Fridays



April 9th



Don't miss a session;

Update your calendar by
using the invites above.

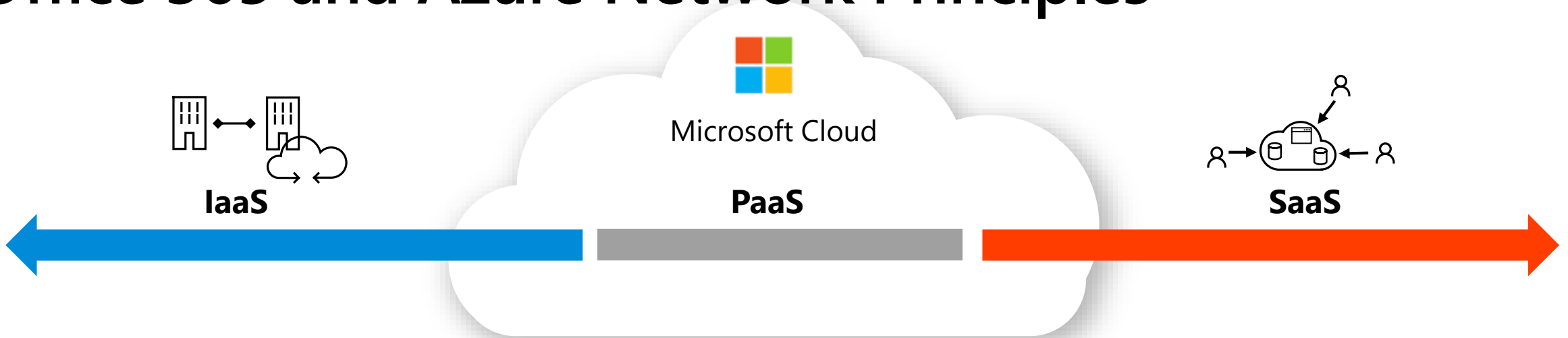
Hey, This landing page is actually a PowerPoint. Click through to see the next slides.

O365 Networking Principles



Stefano Ceruti
Partner Tech. Architect (Teams)

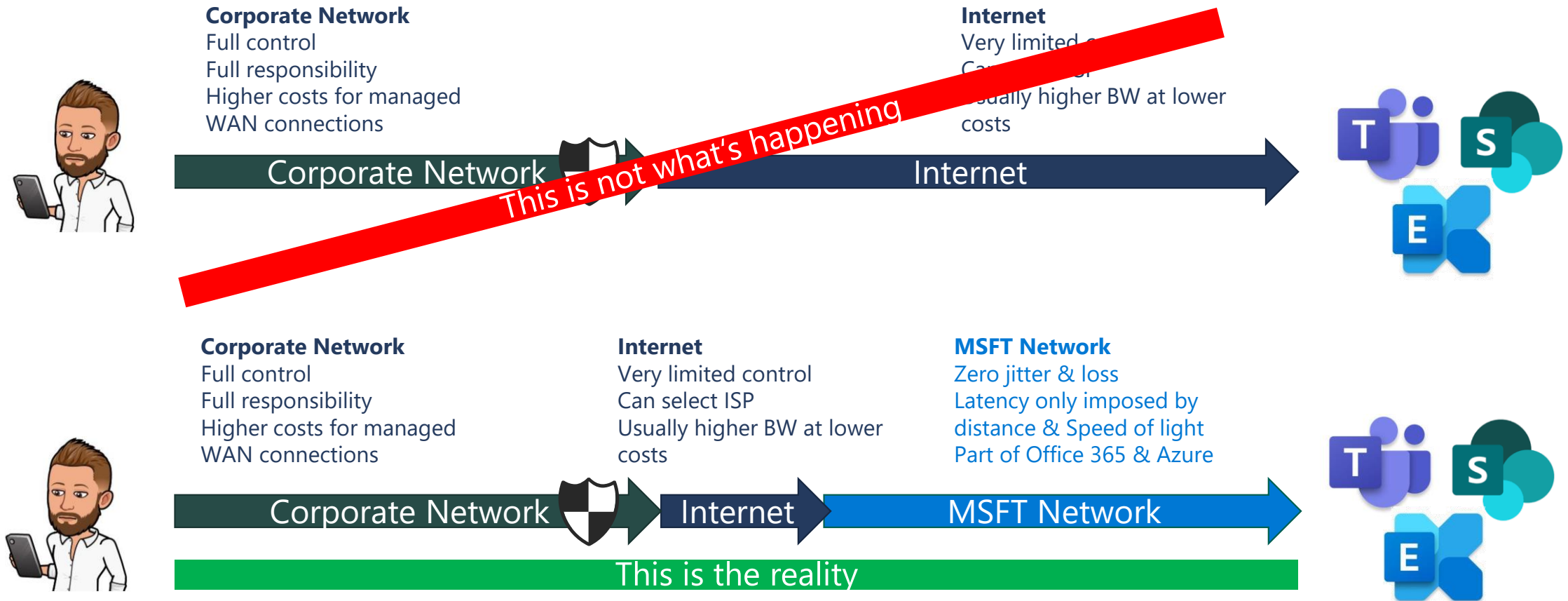
Office 365 and Azure Network Principles



- IT professionals building solutions in the cloud
- Cloud tenancy is at (virtual) infrastructure/network levels
- Location specific (virtual datacenter) experience
Customer picks location(s)
- Infrastructure concepts: region, compute, VNET, GB
- **Optimized for private network connectivity**
- **Extends on-premises network into the cloud**
- **Extends your existing network security boundary**

- Users consuming and extending finished cloud applications
- Highly distributed, global application experience.
- Focus on scale out across the planet
- **Optimized for public (Internet) connectivity**
- **Requires new approach to networking**
- **Requires re-envisioning of security boundaries**

How we connect to Office 365 over the Internet



Microsoft Global Network

Global foot print

Microsoft's global network is one of the **top two networks in the world**

Tens of thousands of route miles of privately-owned dark fiber

Peered with over **2700 ISPs globally in 190 locations and 38 countries**

Available for **90+% of the internet connected population** with **metrics comparable to the Tier 1 ISPs/Telcos**

Media processors & relays **deployed to 50+ Microsoft data centers and edge sites** with more being deployed

Optimized for media

Fiber connections designed to **reduce latency between regions**

Edge sites placed close to the users to **reduce number of hops and latency**

Keep **improving ISP peering performance** based on call quality telemetry

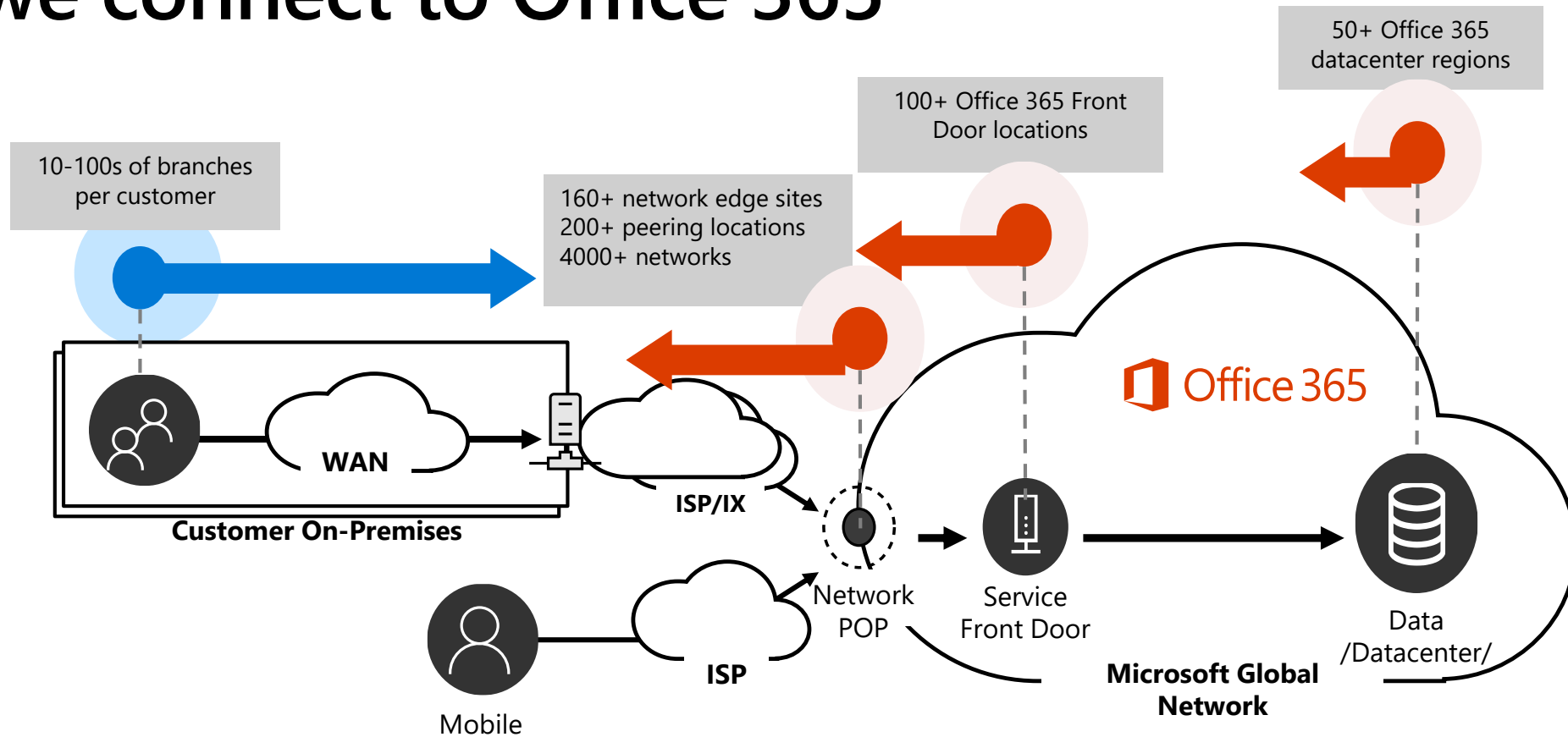
Audio traffic prioritized throughout the Microsoft Global Network

Meetings hosted **close to the participants**

Consolidated IP ranges for calling and media

Microsoft's fiber optic network could stretch to the moon and back, three times over!

How we connect to Office 365



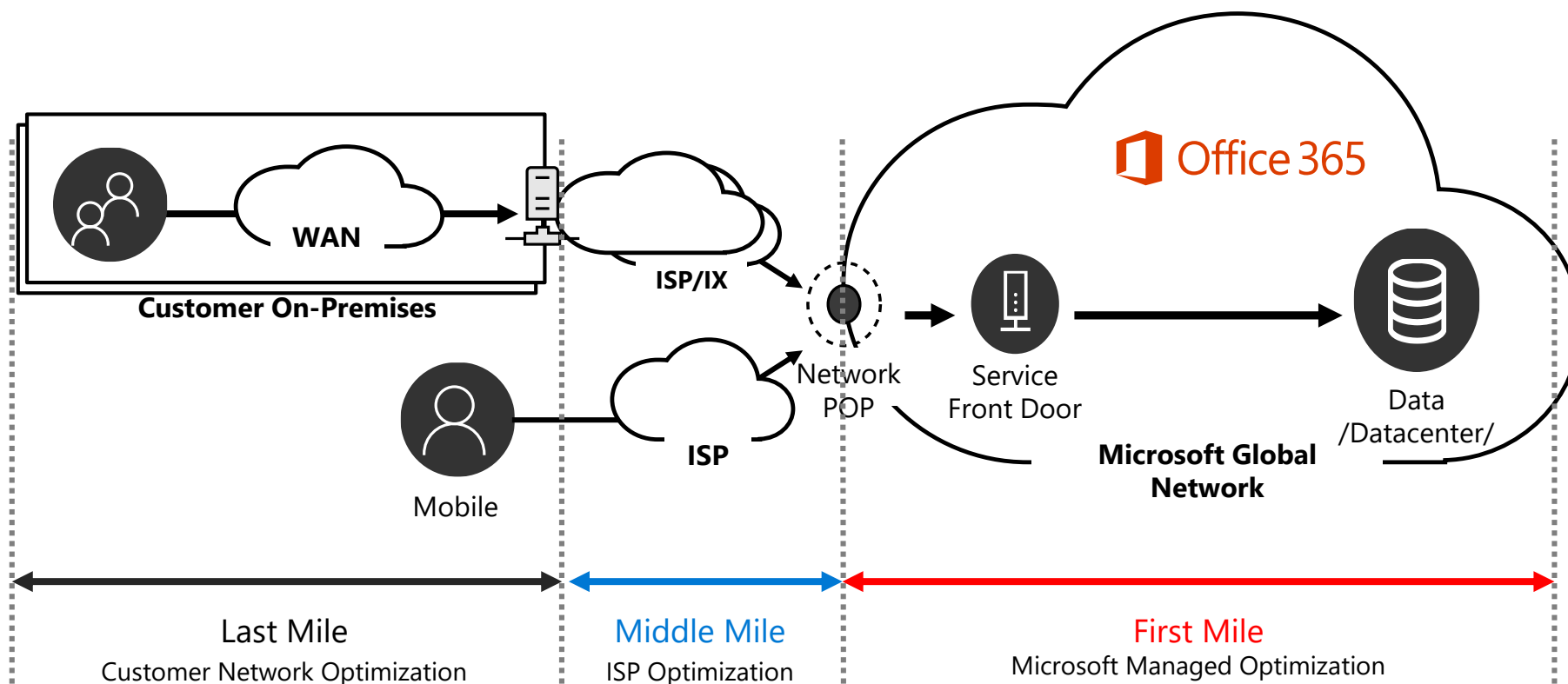
Office 365 is trying to be closer to all users

- Microsoft Global Network ([AS8075](#)): Presence | Peering | Backhaul
- Highly Distributed Service Front Door infrastructure
- Intelligent content and business logic placement optimized for performance

Customer network imperative:

- Shorten the path between users and Microsoft network edge

How do I optimize network performance

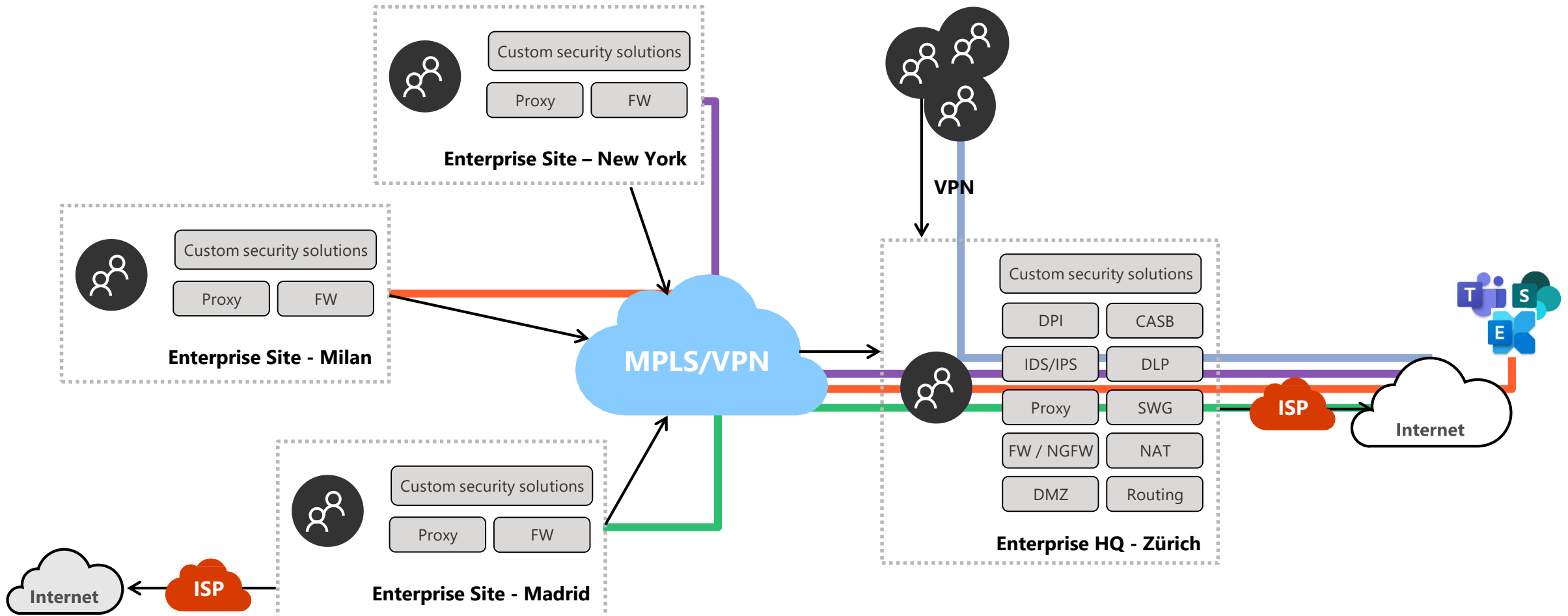


How do I optimize network performance

Corporate Network



- Most of the optimization during this transition can be done by optimizing your Corporate Network

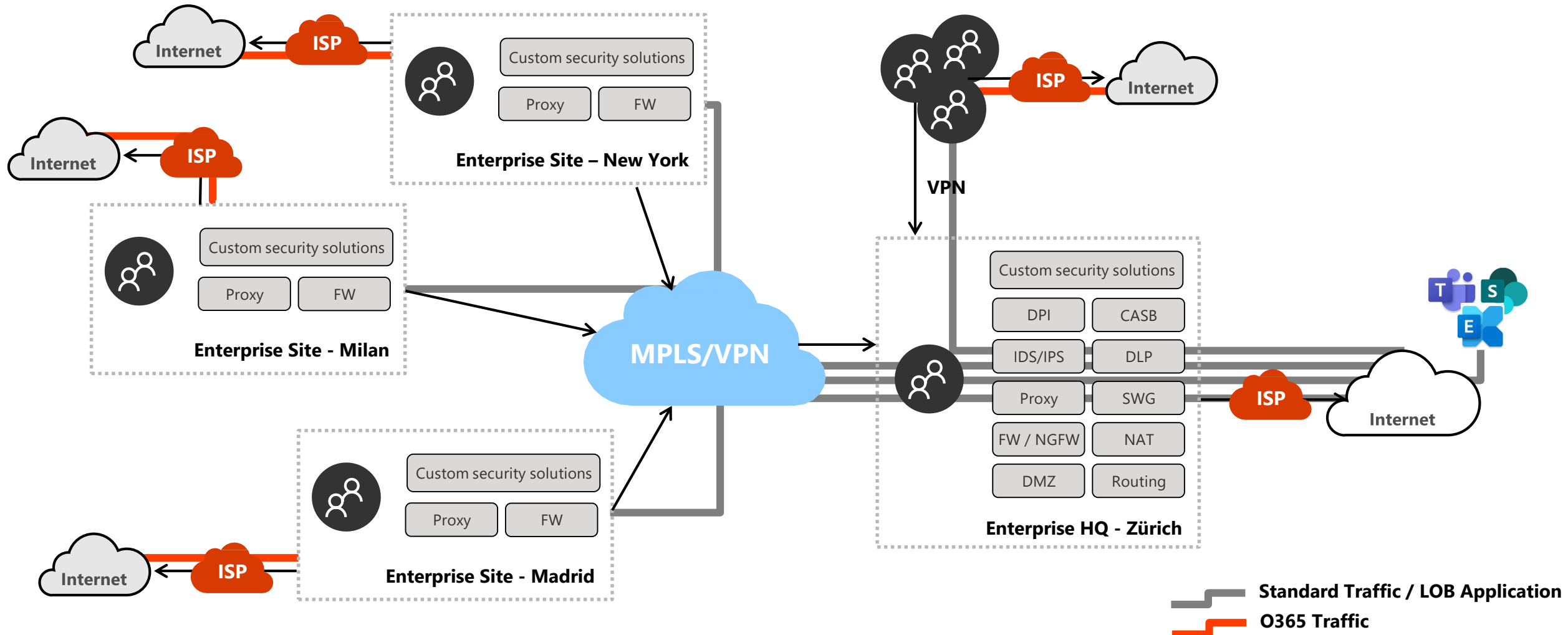


How do I optimize network performance

Corporate Network



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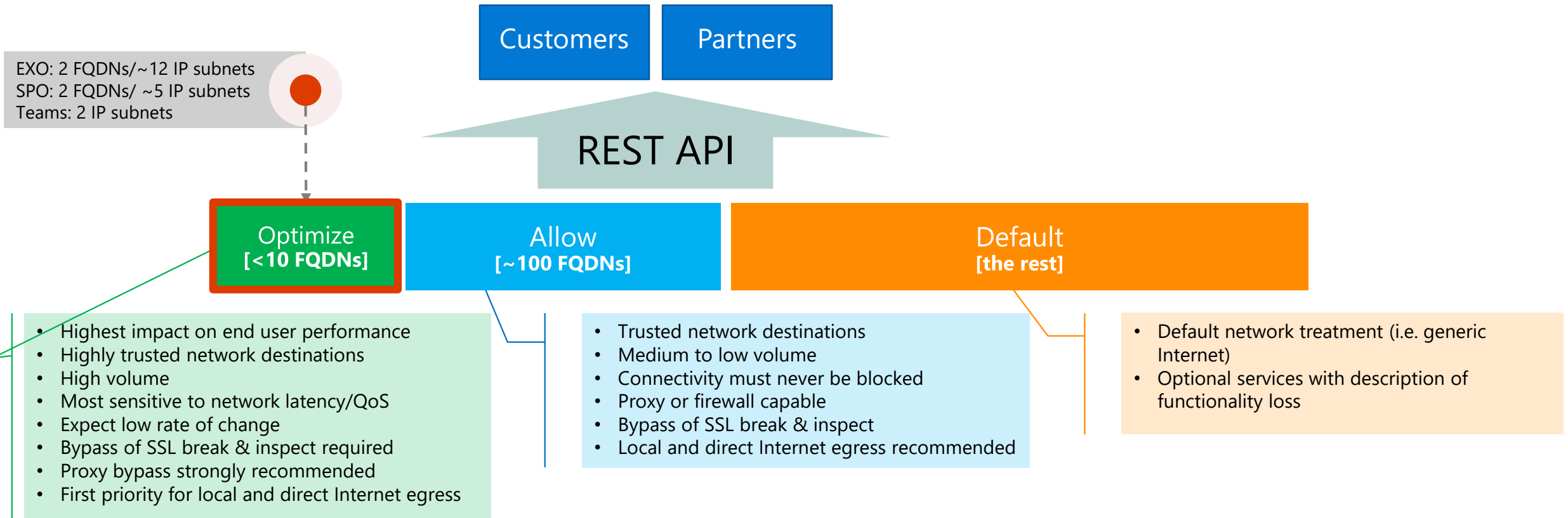


O365 Network Simplification

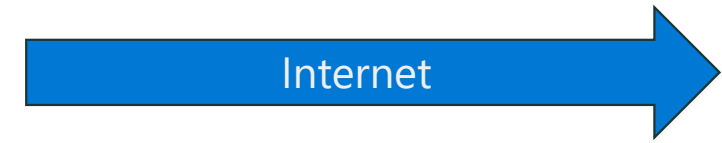
Corporate Network



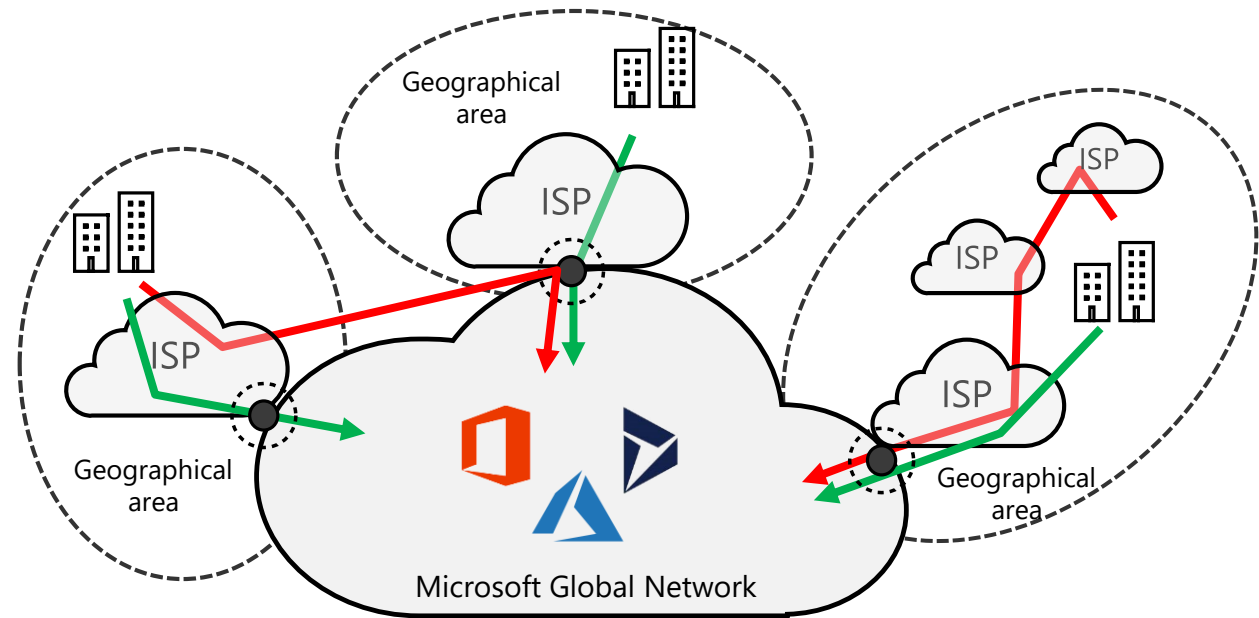
- Bypass Proxies and allowed direct connectivity to O365 IPs:
- Worked on network Simplification: Priority driven endpoint for easier customer network optimizations
- REST API (<http://aka.ms/ipurlws>) for automating customer Office 365 network settings



Optimizing “Middle Mile” Connectivity

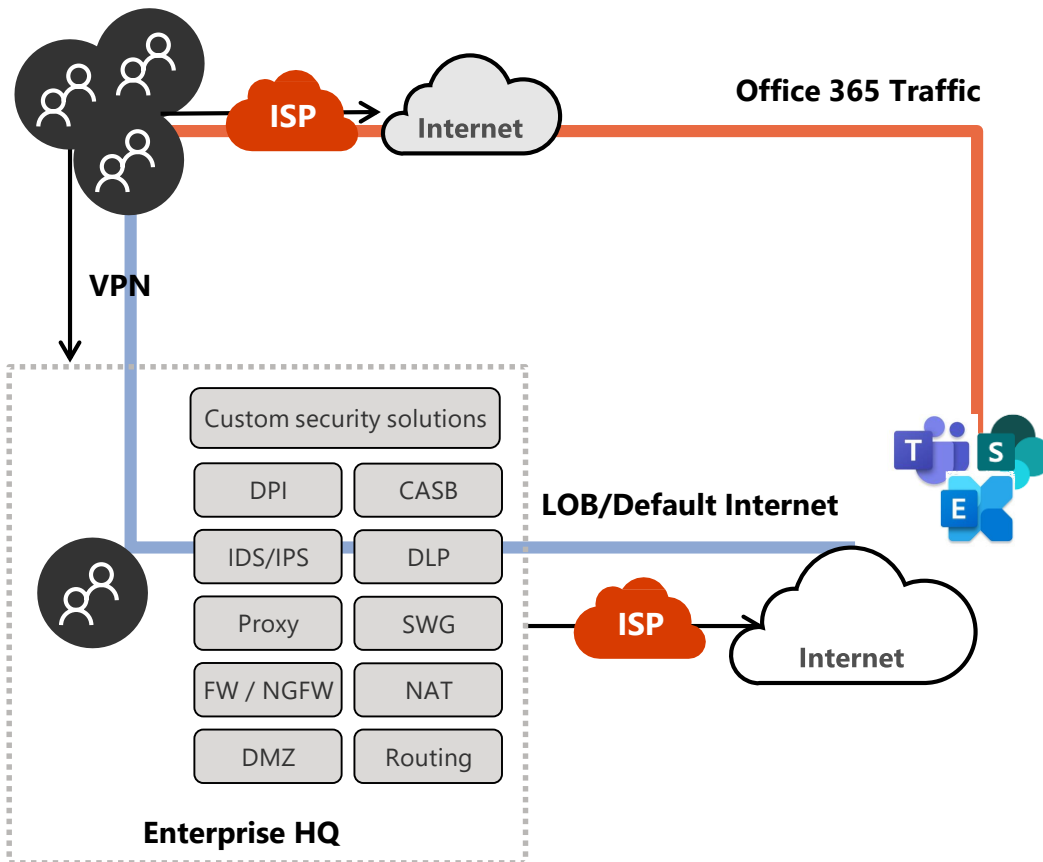


- What affects middle mile latency to Office 365?
 - ISP peering inefficiencies
 - Unnecessary ISP backhauling between geos
 - Undetected routing issues
- Office 365 connectivity principle: local and direct Internet egress
 - Best results achieved with ISPs which use direct Internet peering with Microsoft in the geographical area where users are



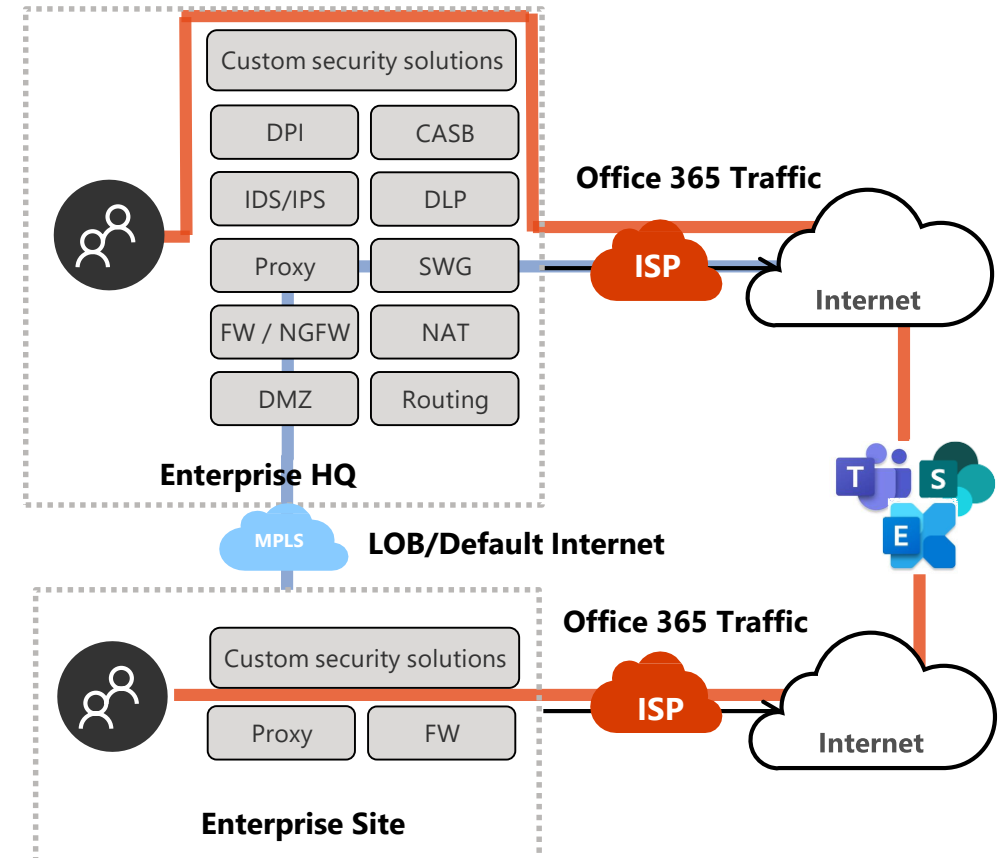
What you can **do** today

In order to provide a better experience to your remote user, you can enable split tunnel over VPN connection.



What you can **Plan** today

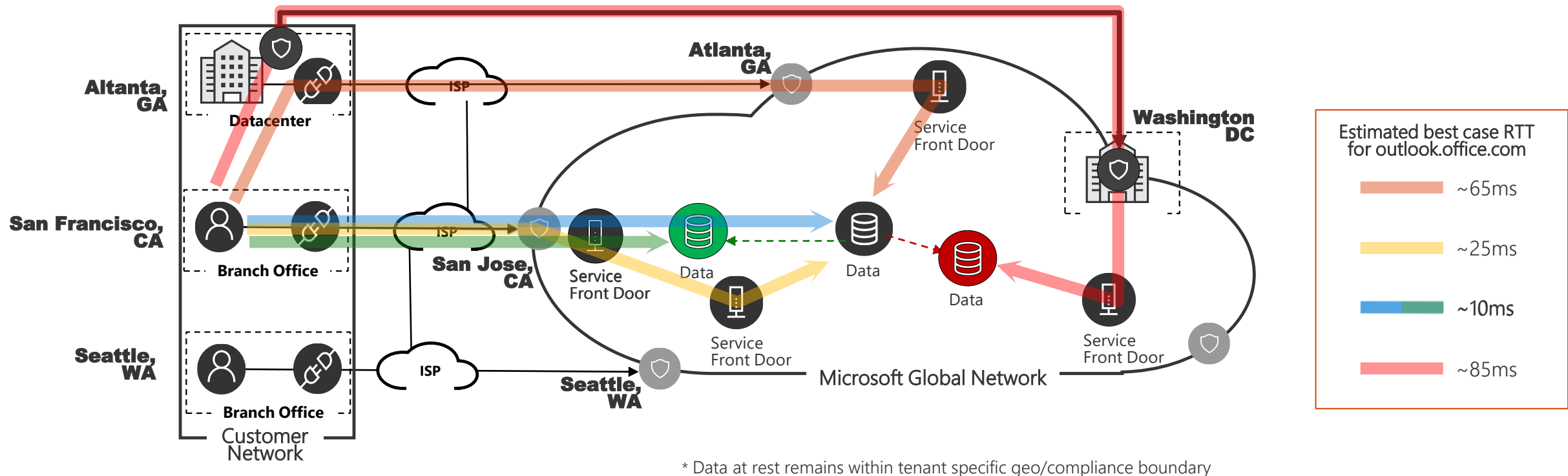
Assess the actual network and plan the changes that will be needed in the corporate network to provide better connection to O365 for your users



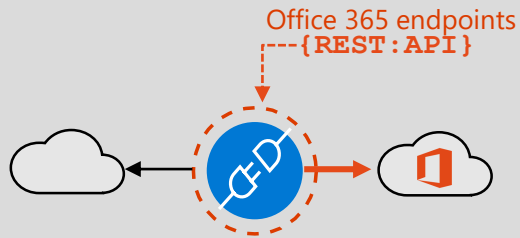
Demo

Use Case: Effect of egress on Office 365 latency and user experience

- Local and direct Internet egress for Office 365 connections
 - Provides lowest latency and best performance for all Office 365 workloads
 - Unblocks most optimal data placement (closer to user) within the cloud [e.g. Exchange Online]



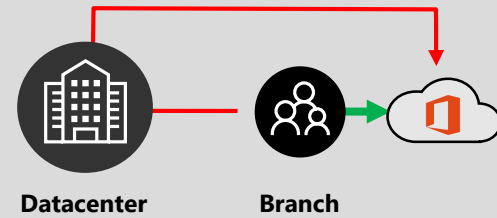
Office 365 connectivity principles



aka.ms/o365ip

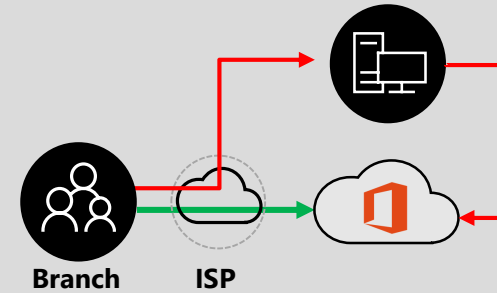
Optimize Office 365 traffic

Use the endpoint categories to differentiate Office 365 traffic from generic Internet traffic for more efficient routing.



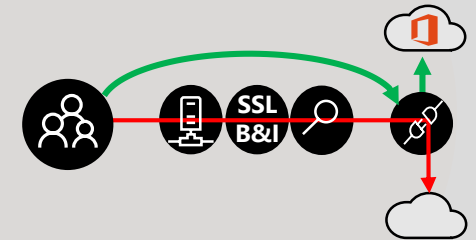
Enable local egress

Egress Office 365 data connections through Internet as close to the user as practical with matching DNS resolution.



Enable direct connectivity

Enable direct egress for Office 365 connections. Avoid network hairpins and minimize network latency (RTT) to Microsoft's global network.



Modernize security for SaaS

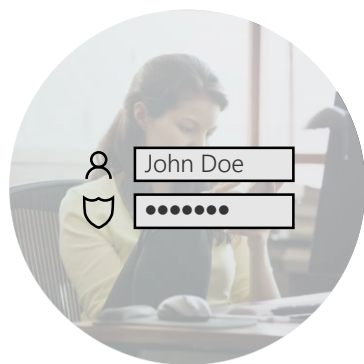
Avoid intrusive network security for Office 365 connections. Assess bypassing proxies, traffic inspection devices, and duplicate security already available in Office 365.

Q&A

Identity and Access Management



Hans Hofkens
Cloud Solution Strategist
Security, Compliance & Identity



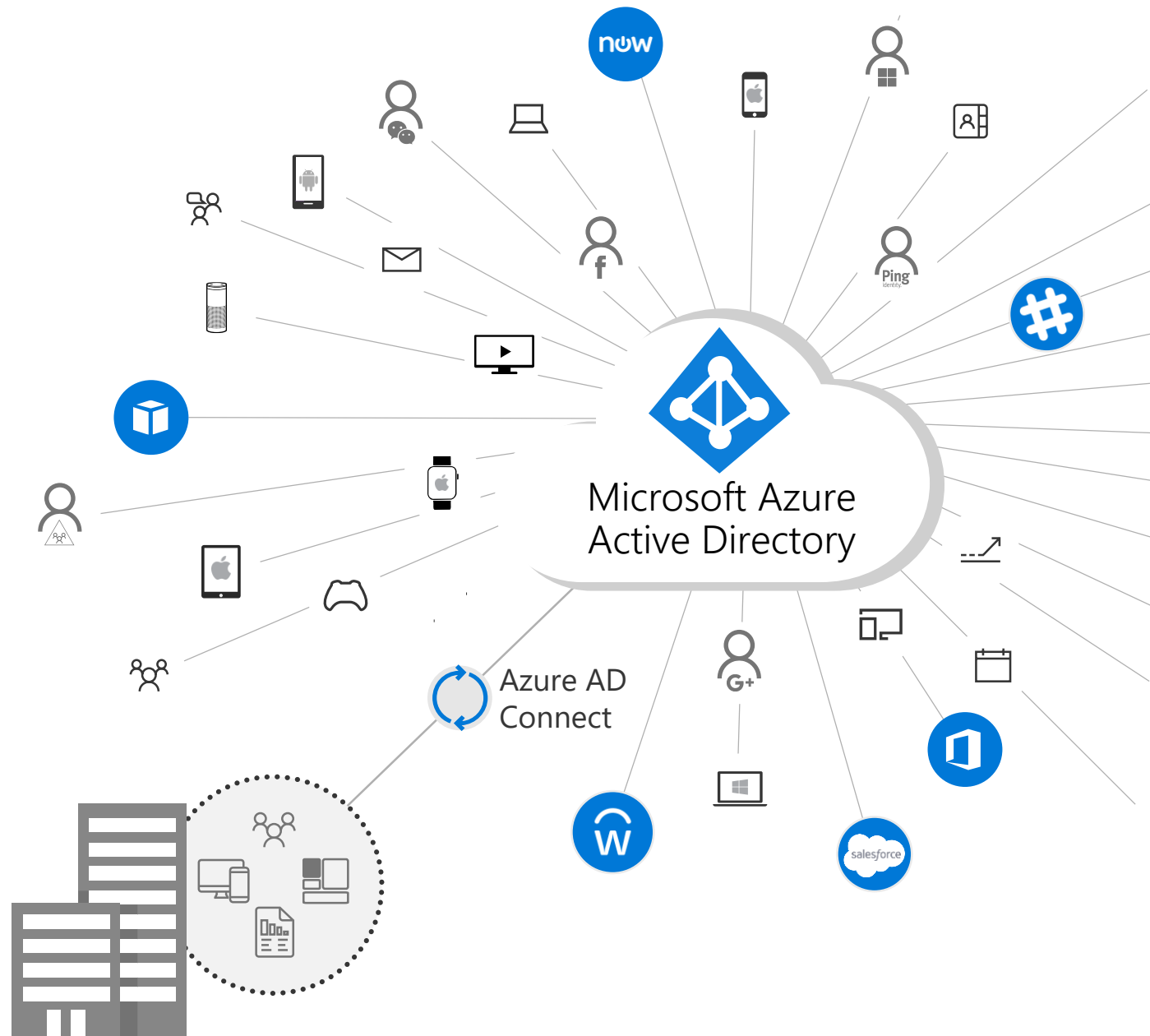
I want to provide my employees access to every app from any location and any device

Hybrid made easy

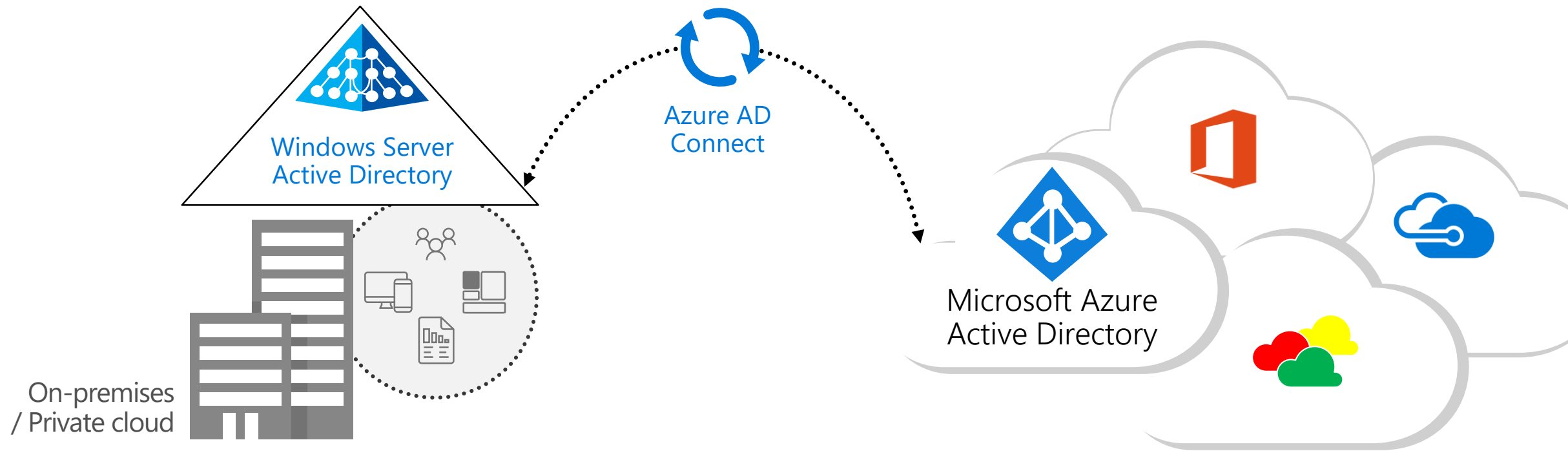
1 Identity

Thousands of apps

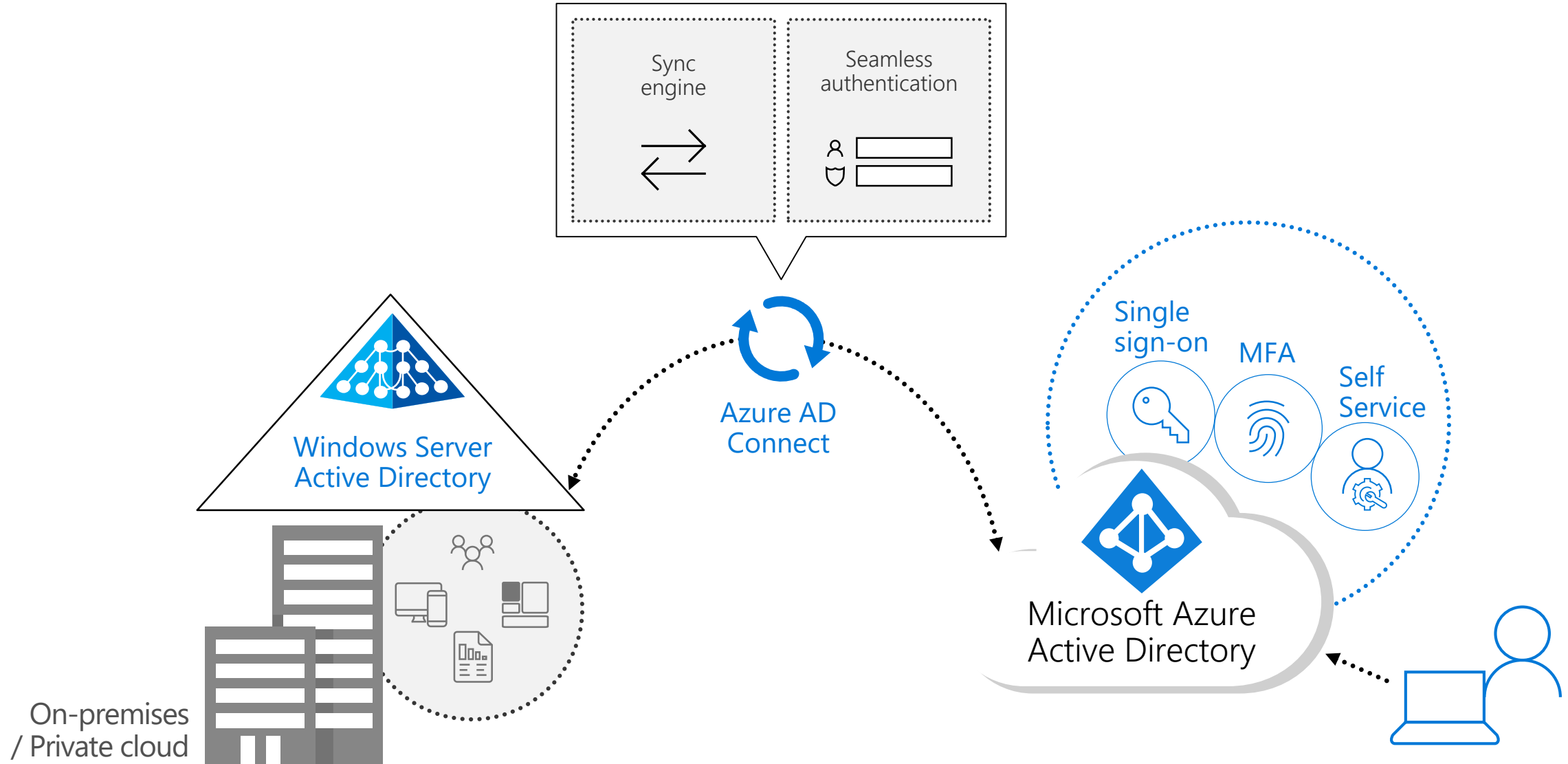
On-premises /
Private cloud



Hybrid made easy



Hybrid made easy: 1 Identity





Provision

Your ID to the cloud!

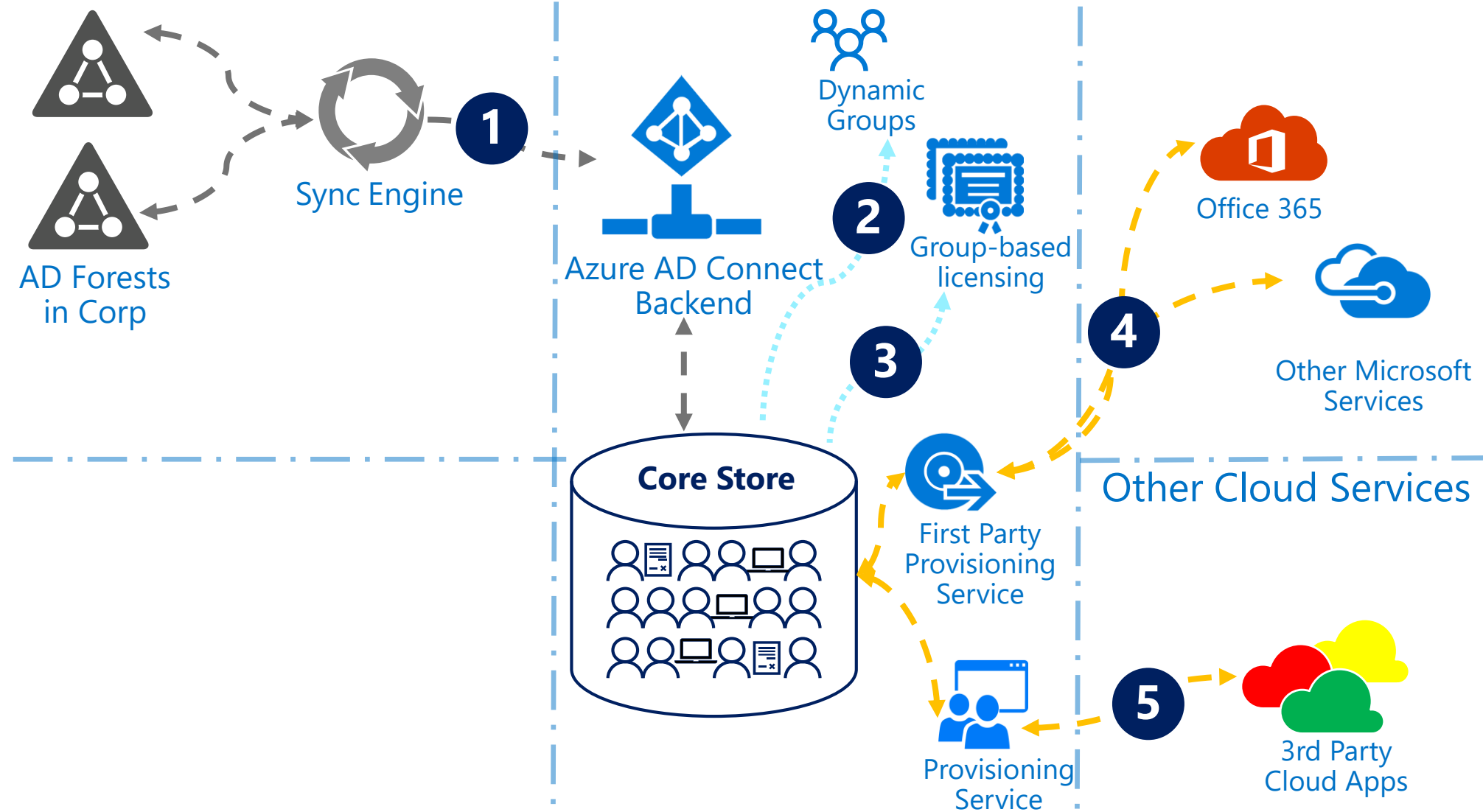


Corp Network

Azure Active Directory

Microsoft Cloud Services

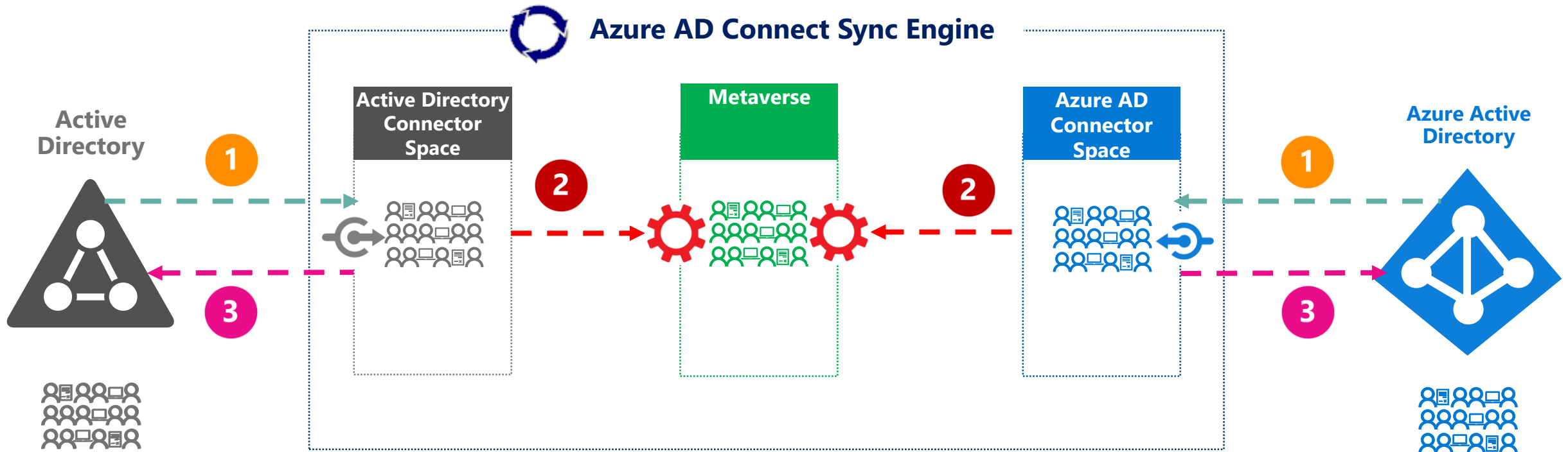
- 1 Sync AD Objects
- 2 Calculate Dynamic Groups
- 3 Process Group Based Licensing
- 4 Provision Microsoft Cloud Services
- 5 Provisioning to 3rd party apps/ Cloud APIs/ SCIM



Object Provisioning – On premises Sync + Outbound

Key

Synchronization Flow



Backend Processes

- Dynamic Groups
- Group-based Licensing
- Provisioning to Apps



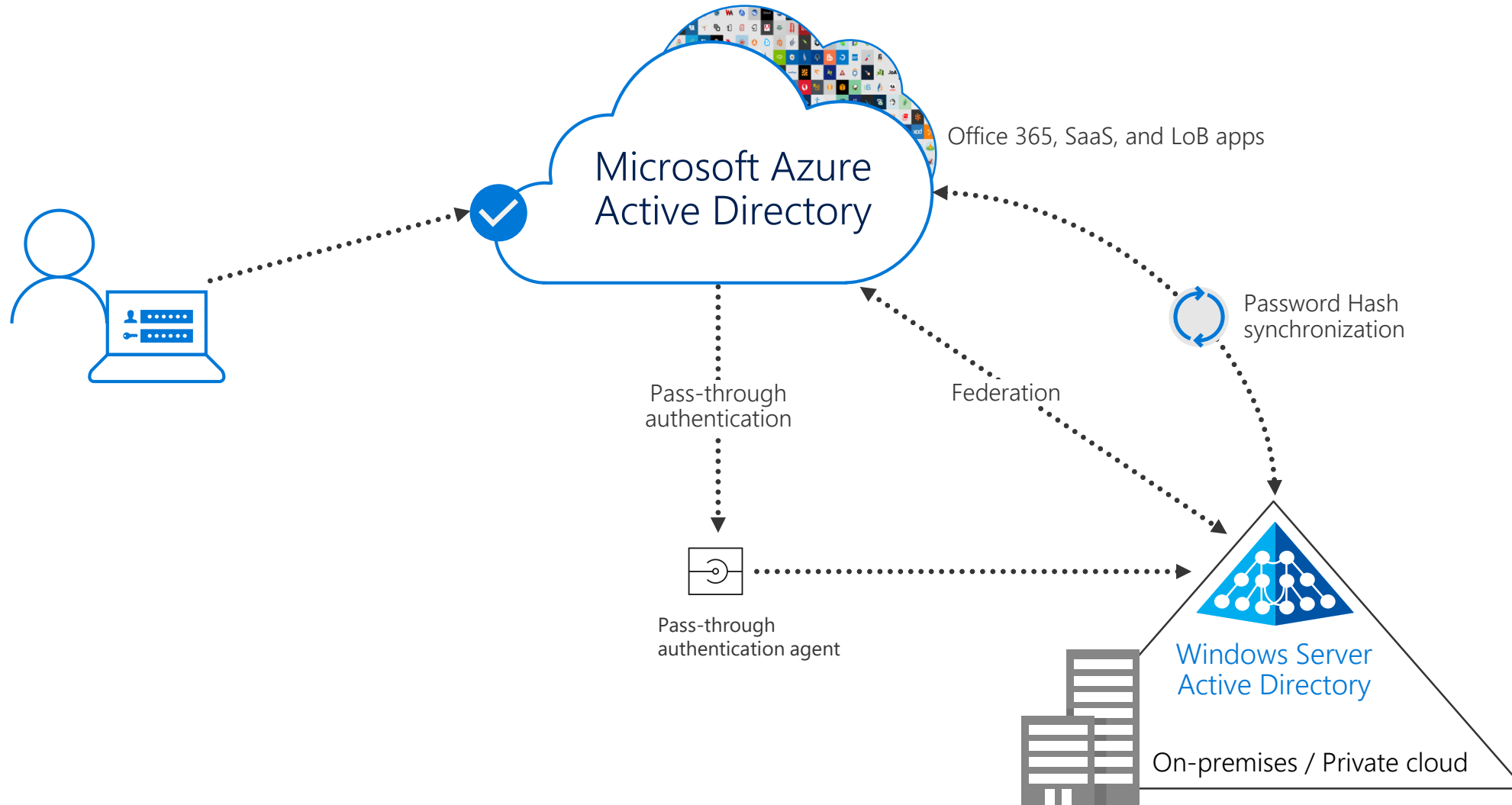


Authenticate

Authenticate in the cloud

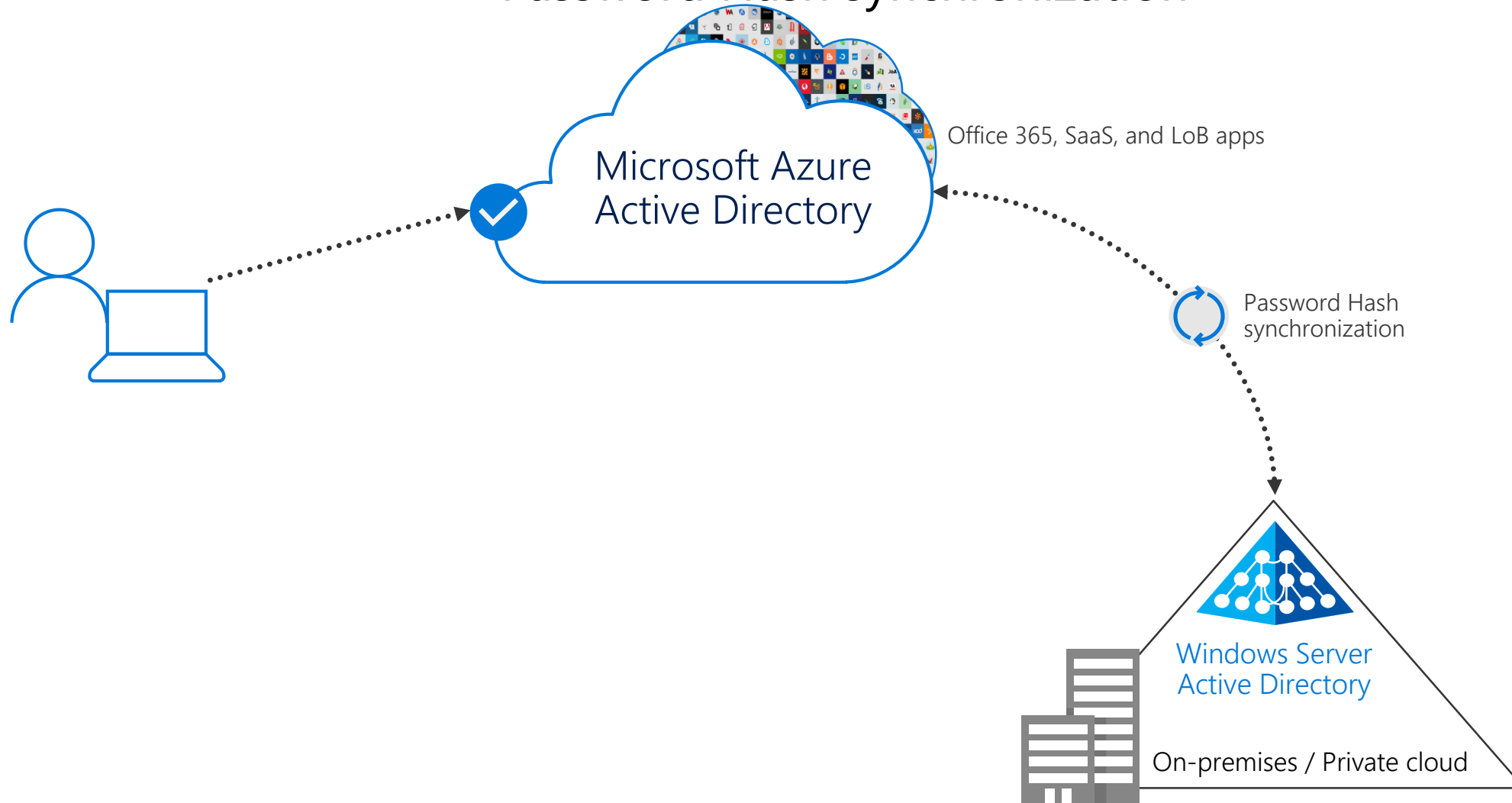


Hybrid authentication options



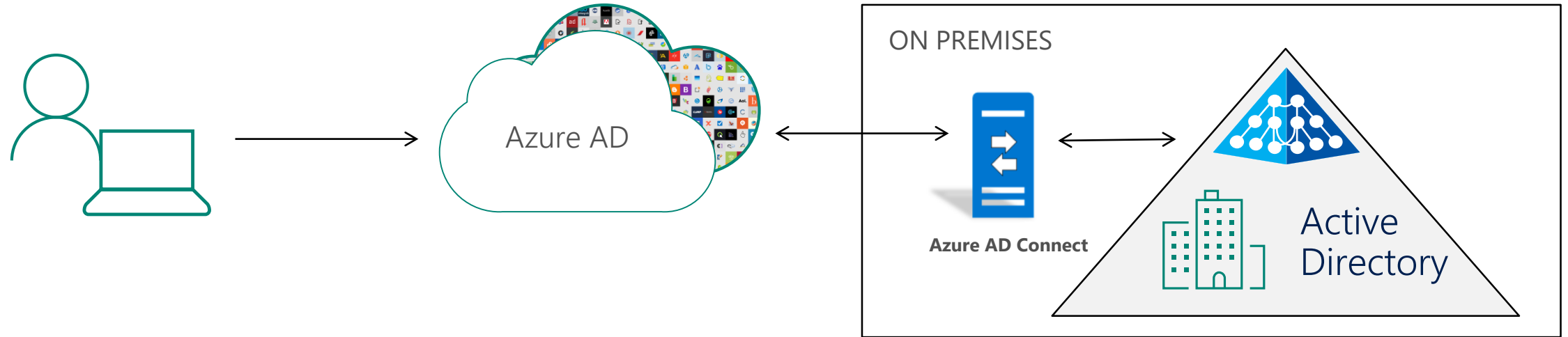
Azure AD Connect authentication options

Password Hash synchronization



Password Hash Sync

Overview



Great user experience

- Same passwords for cloud-based and on-premises apps
- Disaster recovery option incase other authN methods are unavailable

Secure and compliant

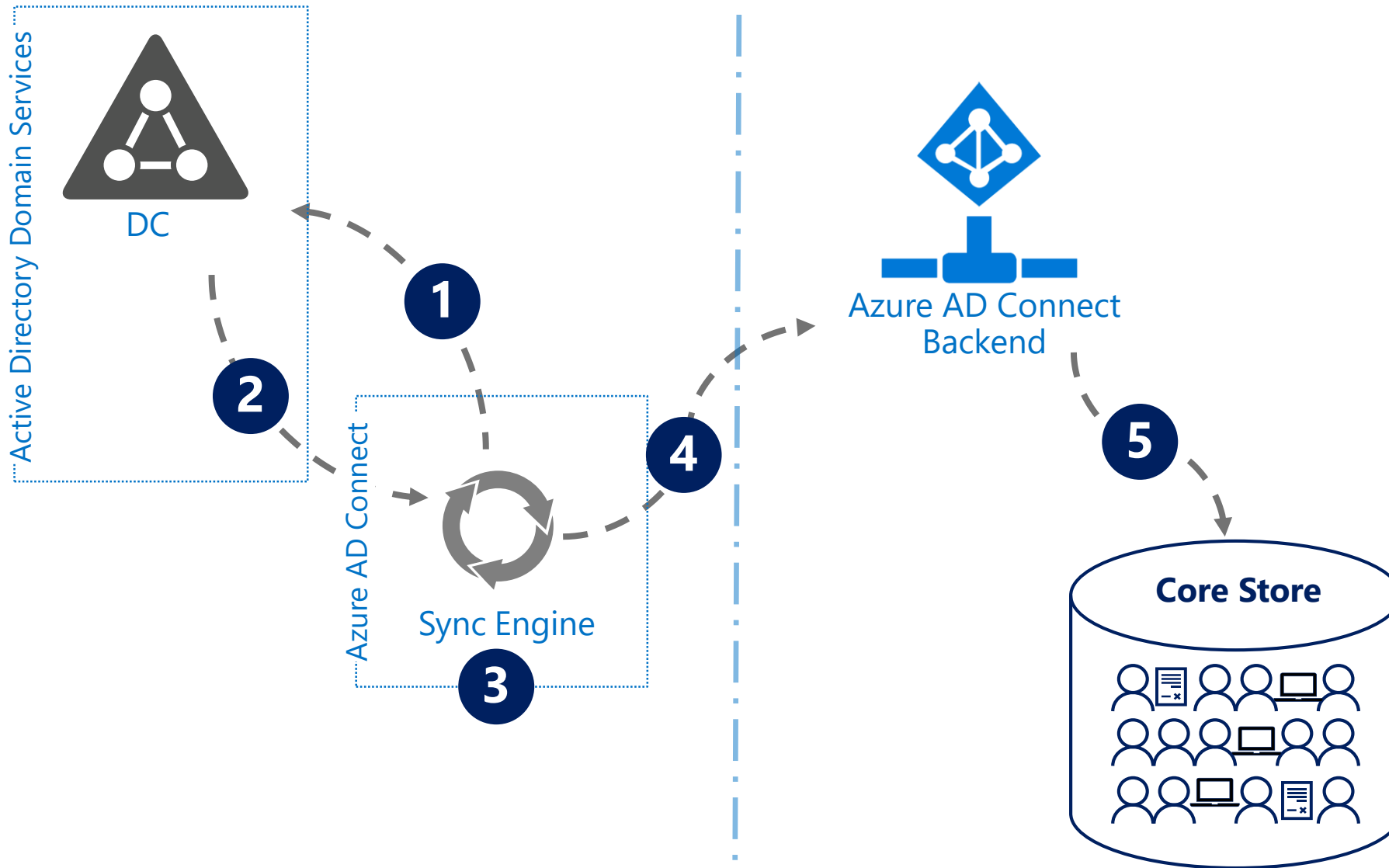
- Only non-reversible hashes are stored in the cloud
- Leaked credential report available
- Integrated with Smart Lockout, Identity Protection and Conditional Access

Easy to deploy & administer

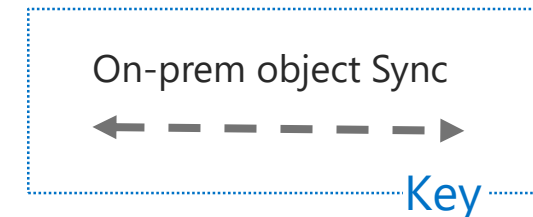
- No on-premises agent needed
- Small on-premises footprint

On-premises

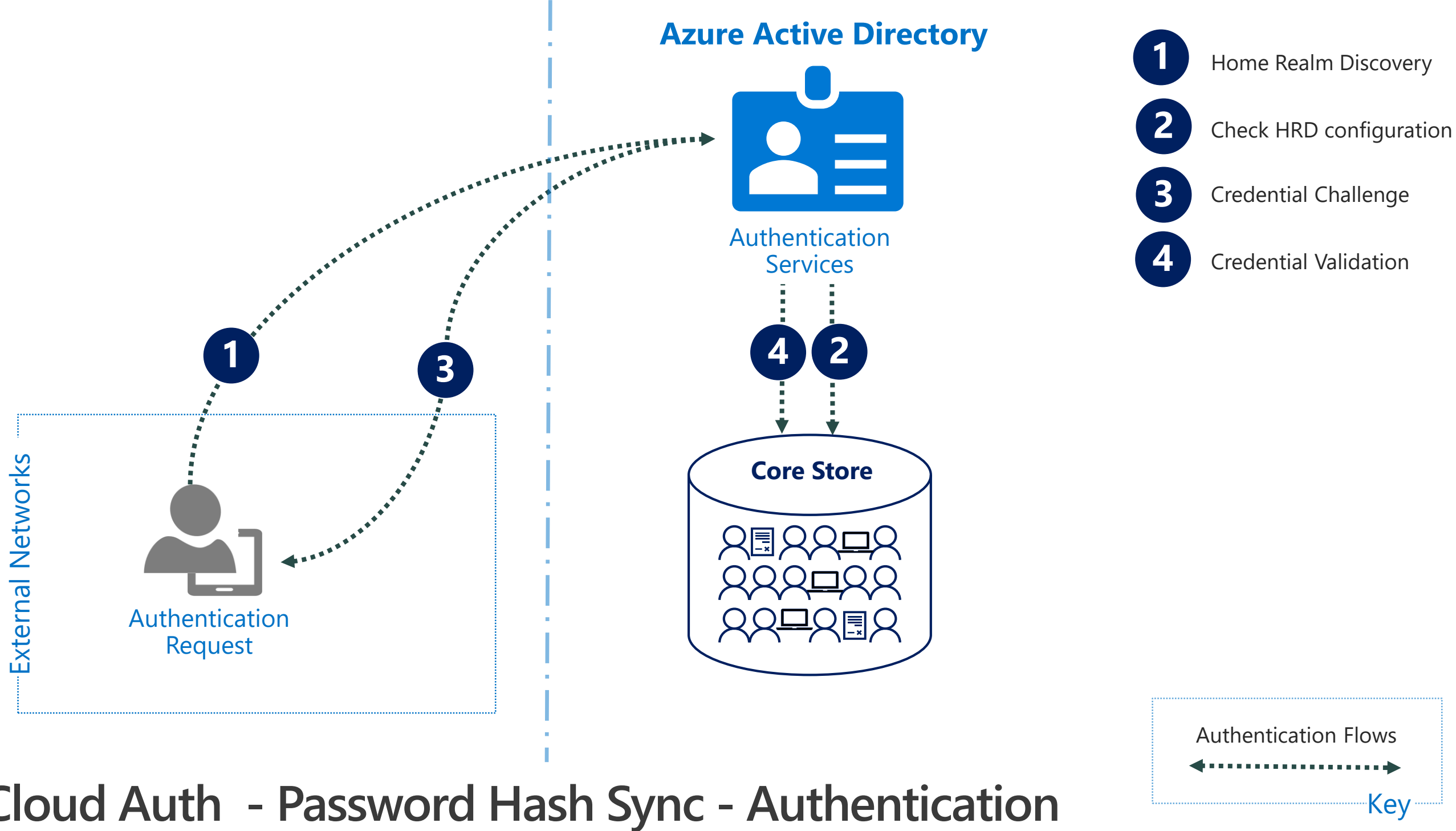
Azure Active Directory



- 1 UnicodePwd replication request
- 2 DC Sends Encrypted MD4 Hash
- 3 Rehash: MD4 Hash + User Salt + PBKDF2 @ 1000 Iterations + HMAC SHA 256
- 4 Send to Azure AD over SSL.
- 5 Writes computed value + user salt + Iteration count encrypted at rest



Cloud Auth - Password Hash Sync - Synchronization





Making it real!

AAD Connect



Welcome

Express Settings

Express Settings

If you have a **single** Windows Server Active Directory forest, we will do the following:

- Configure synchronization of identities in the current AD forest of **FABRIKAM**
- Configure password hash synchronization from on-premises AD to Azure AD
- Start an initial synchronization
- Synchronize all attributes
- Enable Auto Upgrade

[Learn more about express settings](#)

If you would like different settings, click Customize.

[Customize](#)[Use express settings](#)

Welcome

Express Settings

Connect to Azure AD

Connect to AD DS

Configure

Connect to Azure AD


Enter your Azure AD global administrator credentials. ?

USERNAME

PASSWORD

Previous

Next

 Microsoft Azure Active Directory Connect

WelcomeExpress SettingsConnect to Azure ADConnect to AD DS (selected)Configure

Connect to AD DS

Enter the Active Directory Domain Services enterprise administrator credentials: ?

USERNAME

CONTOSO\username

PASSWORD

Previous

Next

[Welcome](#)[Express Settings](#)[Connect to Azure AD](#)[Connect to AD DS](#)[Azure AD sign-in](#)[Configure](#)

Azure AD sign-in configuration

To use on-premises credentials for Azure AD sign-in, UPN suffixes should match one of the verified custom domains in Azure AD. The following table lists the UPN suffixes defined in your on-premises environment, along with the matching custom domain in Azure. [?](#)

Active Directory UPN Suffix	Azure AD Domain
fabrikam.com	Not Added ?
fabrikamonline.eu	Not Verified ?
fabrikamonline.com	Verified



☐ Continue without matching all UPN suffixes to verified domains

Users will not be able to sign-in to Azure AD with on-premises credentials if the UPN suffix does not match a verified domain. [Learn more](#)

[Previous](#)[Next](#)

Welcome

Express Settings

Connect to Azure AD

Connect to AD DS

Configure

Ready to configure

Once you click Install, we will do the following:

- Install the synchronization engine
- Configure Azure AD Connector
- Configure fabrikamonline.com Connector
- Enable Password hash synchronization
- Enable Auto Upgrade
- Configure synchronization services on this computer

☒ Start the synchronization process when configuration completes.

☐ Exchange hybrid deployment ?

Previous

Install

Microsoft Azure Active Directory Connect

Express Settings

User Sign-In

Connect to Azure AD

Sync

Connect Directories

Azure AD sign-in

Domain/OU Filtering

Identifying users

Filtering

Optional Features

Configure

Optional features

Select enhanced functionality if required by your organization.

☐ Exchange hybrid deployment ?

☐ Azure AD app and attribute filtering ?

☒ Password synchronization ?

☐ Password writeback ?

☐ Group writeback (Preview) ?

☐ Device writeback ?

☐ Directory extension attribute sync ?

[Learn more](#) about optional features

Previous

Next



Build your expertise

<https://docs.microsoft.com/en-us/azure/active-directory>



More details

- <https://aka.ms/auth-options>
- <https://aka.ms/deploymentplans>
- <https://aka.ms/migrateapps>
- <https://aka.ms/passwordguidance>
- <https://aka.ms/aaddatawhitepaper>

Open Q & A

Please ask any question in the Q&A

We will read your questions and answer them in this meeting , or a next meeting.



Poll



Which Topics should we cover next week ?

Planned Sessions	Main Topics
Wednesday, April 01, 2020	<ul style="list-style-type: none">• Basic Networking Office 365• Identity & Access Management
Friday, April 03, 2020	<ul style="list-style-type: none">• Windows Virtual Desktop
Thursday, April 09, 2020	<ul style="list-style-type: none">• Microsoft Teams Governance, Compliance and Security (Information Protection)
Wednesday, April 15, 2020	<ul style="list-style-type: none">• Microsoft Teams Hybrid Environments• Interoperability with external systems
Friday, April 17, 2020	<ul style="list-style-type: none">• Skype for Business to Microsoft Teams Migration• Guest access & external access in Microsoft Teams

- 1) Teams for Healthcare
- 2) Teams for Education
- 3) Power Platform (how to leverage, deep dive on Crisis Communication App,...)
- 4) Security
- 5) Information Protection
- 6) Any Other Suggestions?

Partner Support Resources

WE Weekly Technical Office Hours

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NEXT WEEK

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<https://aka.ms/WE-TechOfficeHours-Materials>

Get help now

- Check out the [Technical Support Options](#) for Microsoft Partners
- If you have a **dedicated Partner Development Manager / Partner Technology Strategist** – reach out to them [directly](#) with your query
- If you do not have a dedicated Partner Development Manager / Partner Technology Strategist, and you need **guidance on a specific customer scenario** (pre-sales technical or deployment assistance) – make use of your [advisory hours](#) and reach out to [Partner Technical Services](#)

Other Partner Resources

- **Best practices and discussion for remote work**
 - [Best practices](#), based on Microsoft internal learnings
 - (new) [Microsoft Tech Community](#) forum for discussing / sharing best practices
- **Enabling Microsoft Teams**
 - We recommend that partners lead with the [CSP Trial](#). See details in our [news article](#).
 - For customers who **don't align to the CSP Trial**, partners can get access to the **Office 365 E1 Trial** for them.
Go to [Partner Center Support](#) and click on *CSP > Cannot find an offer in the catalog*.
- **Resources for Education Partners**
 - Check out the [EDU Partner Flash on Yammer](#)
 - [Office 365 A1](#) – **Free** versions to **all educational institutions**: unlimited chat, built-in group and one-on-one audio or video calling, 10 GB of team file storage, and 2 GB of personal file storage per user. You also get real-time collaboration with the Office apps for web, including Word, Excel, PowerPoint, and OneNote. No restrictions for # of users.
 - [Microsoft Teams for Free](#) (**Individuals** and **IT roll-out** – in Office 365 A1 above): unlimited chat, built-in group and one-on-one audio or video calling, 10 GB of team file storage, and 2 GB of personal file storage per user.
 - [Minecraft: Education Edition](#): We've extended access to Minecraft: Education Edition to all free and paid O365 Education accounts through the end of June 2020 and published a [M:EE remote learning toolkit](#) with links to >100 Minecraft lessons and STEM curriculum.

Thank You!

