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Session Code: IDA306

Connecting Active Directory To Cloud Services

Jorgen Thelin

Senior Program Manager

Microsoft Corporation

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Agenda

Connecting Active Directory To Cloud Services

- Identity Challenges from Cloud Services
- Microsoft Services Connector
- Microsoft Federation Gateway
- Next Steps

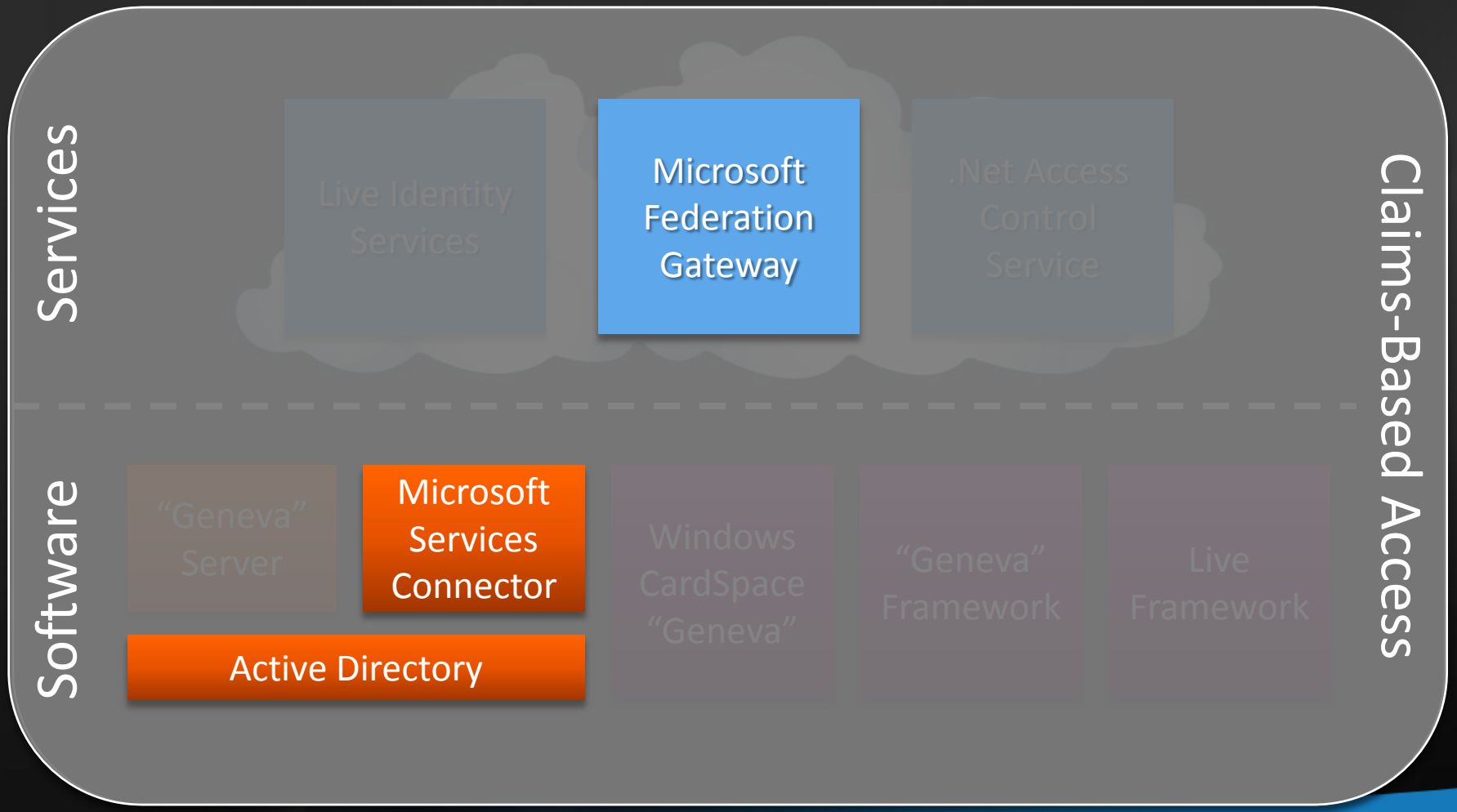
Microsoft Identity Software + Services

One identity model that puts users in control of their identities

Flexibility via Choice

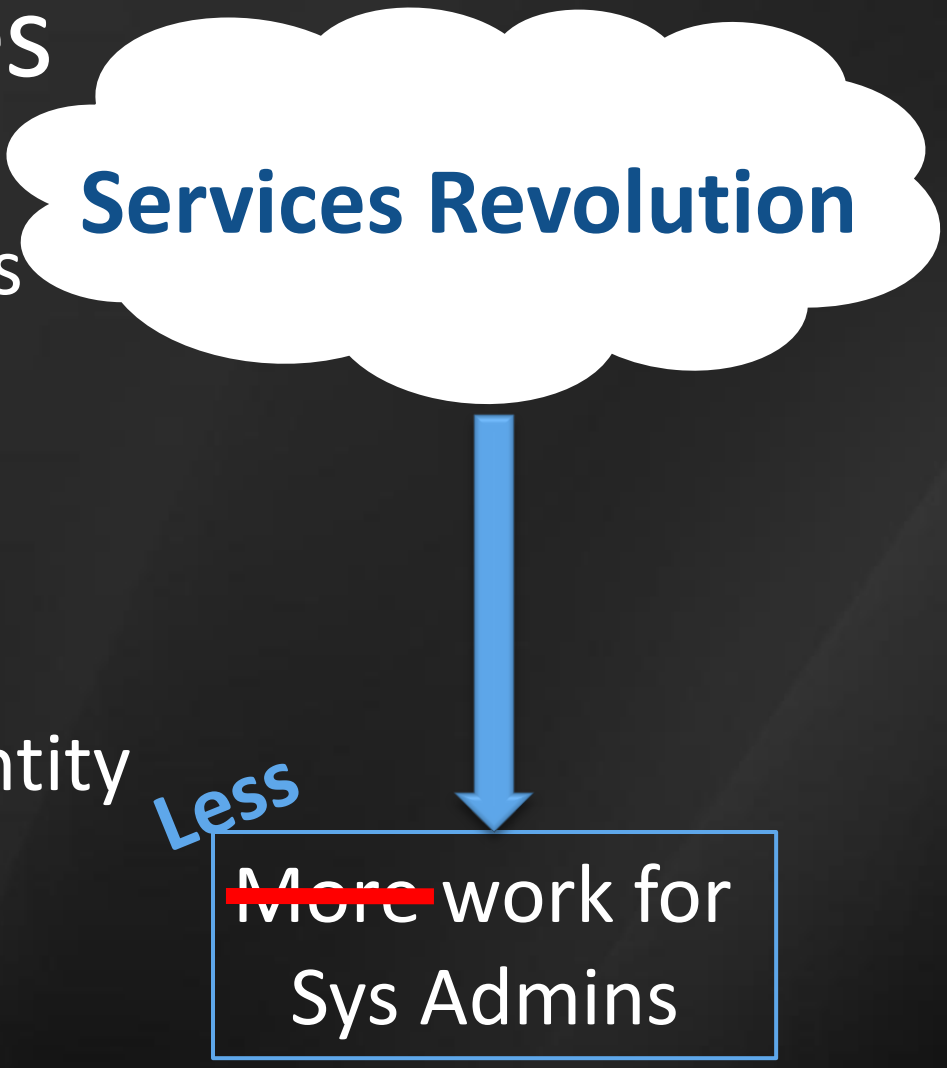
Enhances Productivity

Standards Based



Identity Challenges

- Different security zones
  - Intranet
  - Traveling employees
  - Partner extranet
  - Internet
- Multiple islands of identity
  - Your organization
  - Partners
  - Customers
- Identity can be a ~~barrier~~ **enabler** with **federation**

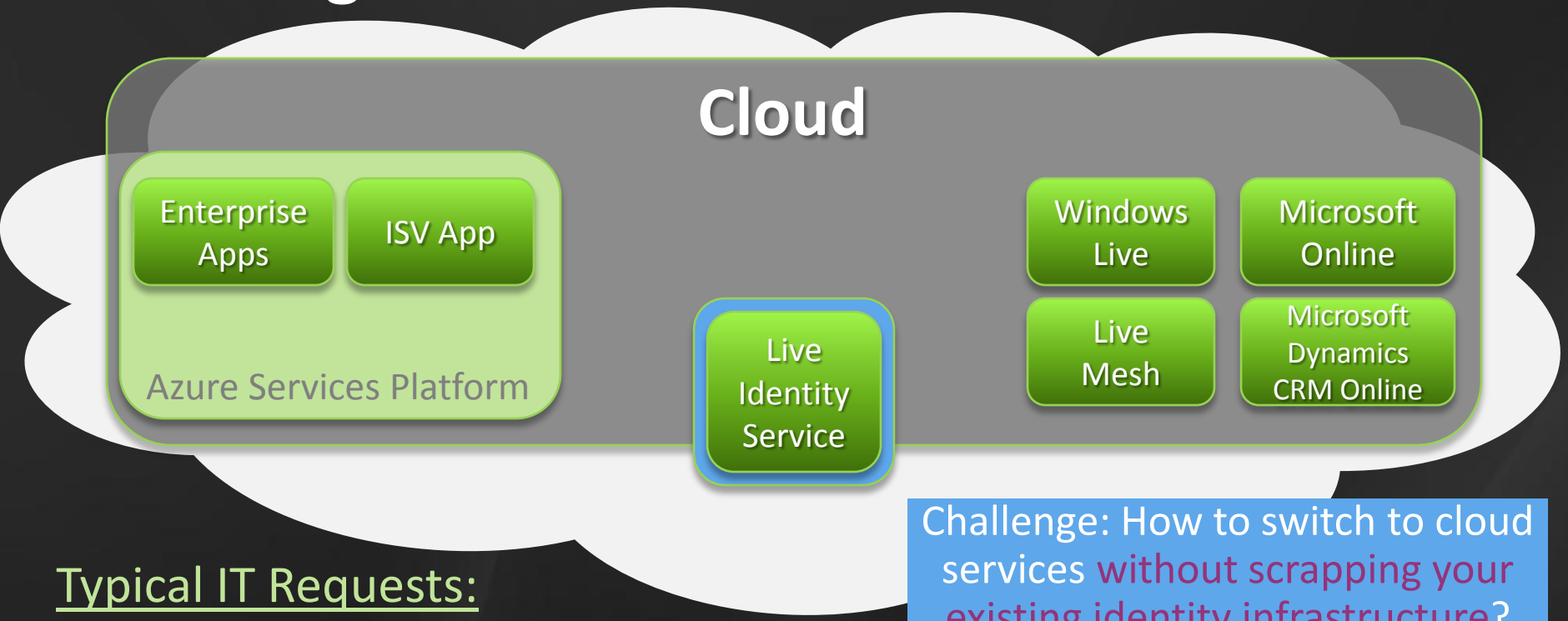


Federated Ecosystem

Benefits from making federated identity work

- Open participation -- based on industry standards
  - WS-Federation / SAML
- Linking service providers and service consumers
- Access to more customers:
  - Windows Live ID users
  - Other organizations using federated identity
- Access to more service / application providers:
  - Microsoft cloud applications
  - Developers using Azure Services Platform
  - Developers using other hosting platforms

Switching to Cloud Services



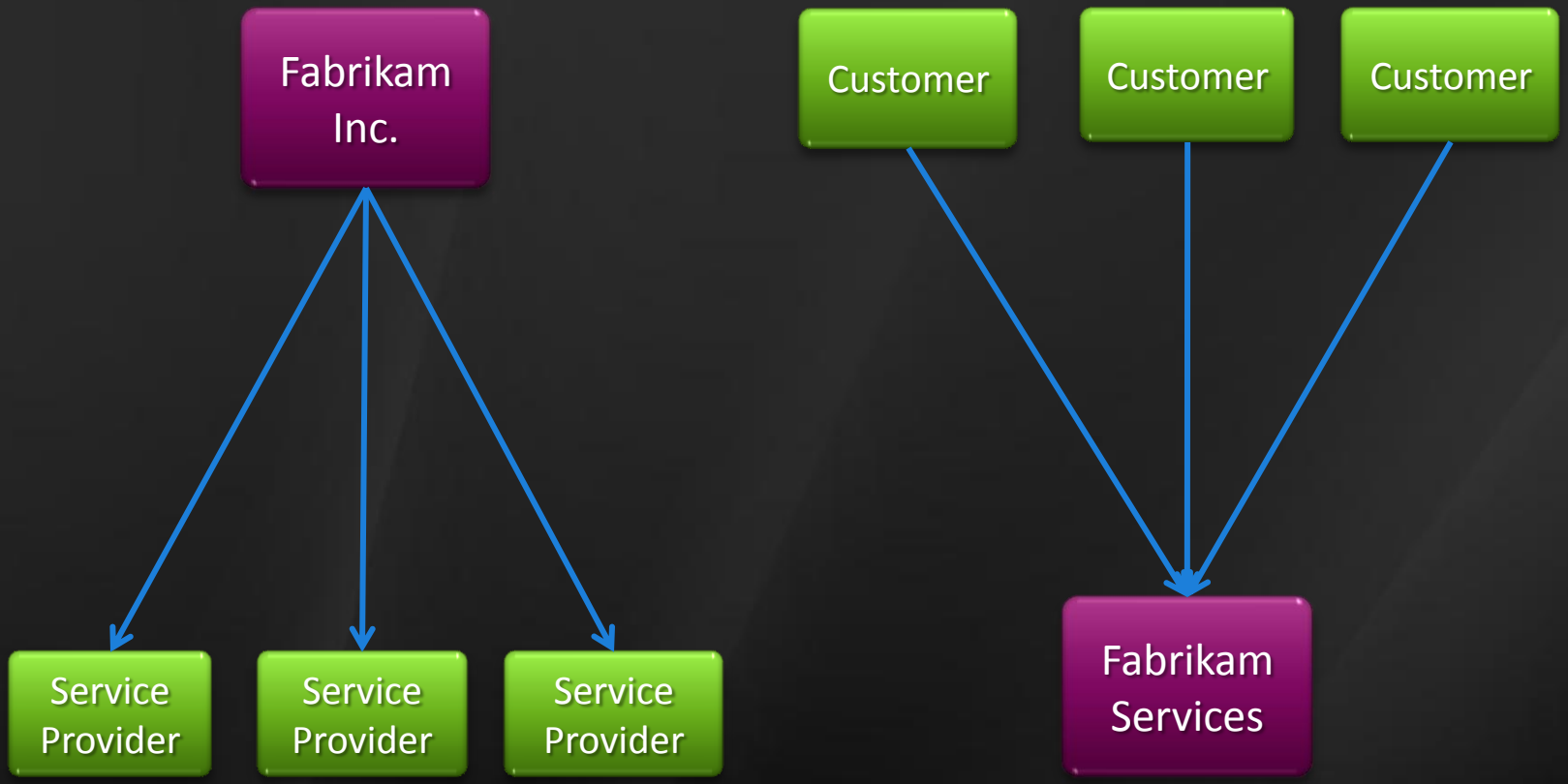
Challenge: How to switch to cloud services without scrapping your existing identity infrastructure?

Typical IT Requests:

1) Outsource service to cloud-based delivery
2) Move application to cloud hosting
3) Use a new cloud-service

Federated Identity Relationships

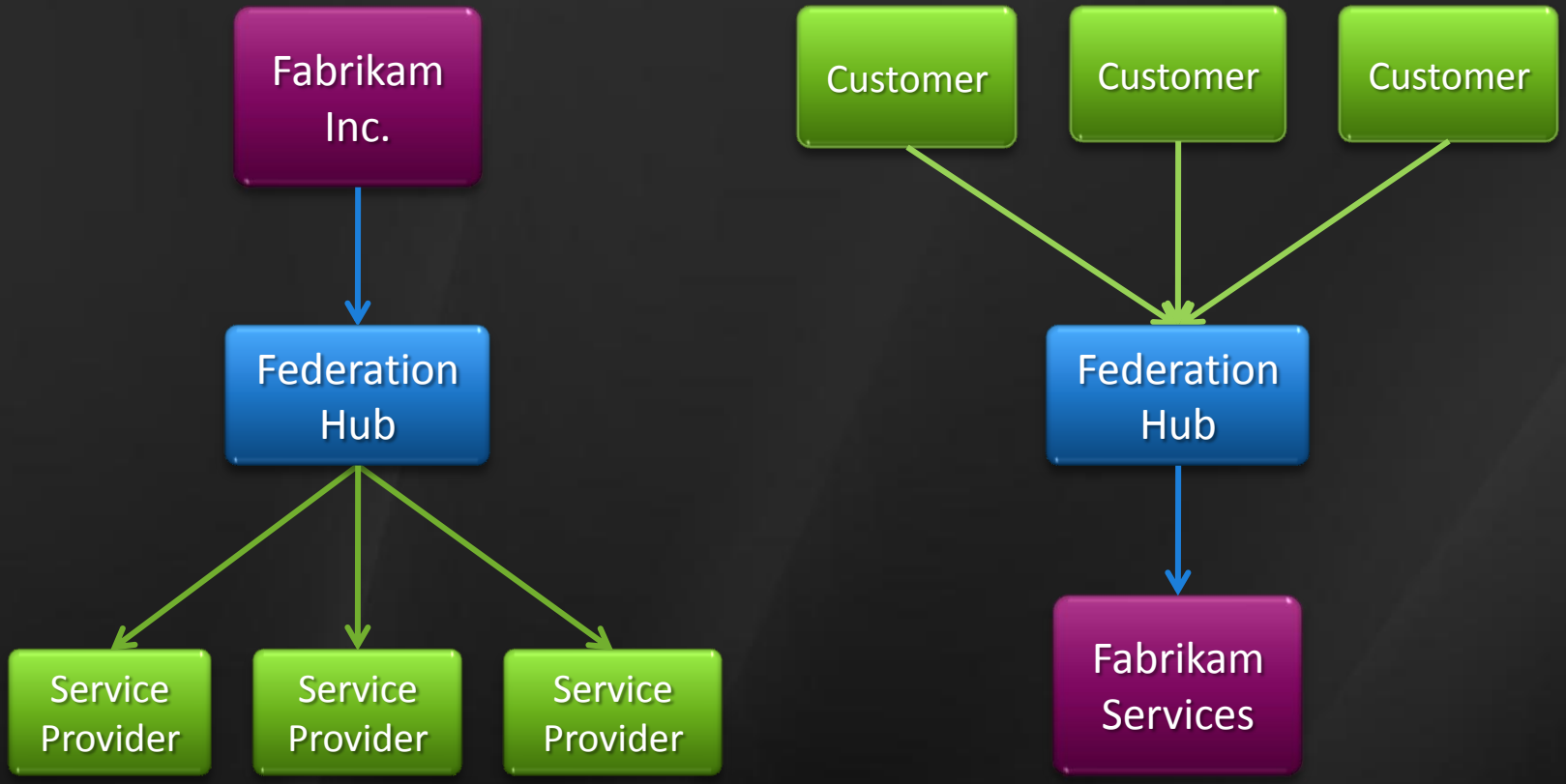
Point-to-Point



Work, work, work! Work, work, work!

Federated Identity Relationships

Hub and Spoke



- Businesses federate once to connect to any service
- Services providers federate once to connect to any business

Solution: Easy Federated Identity

Microsoft Federation Gateway

- Hub and spoke model

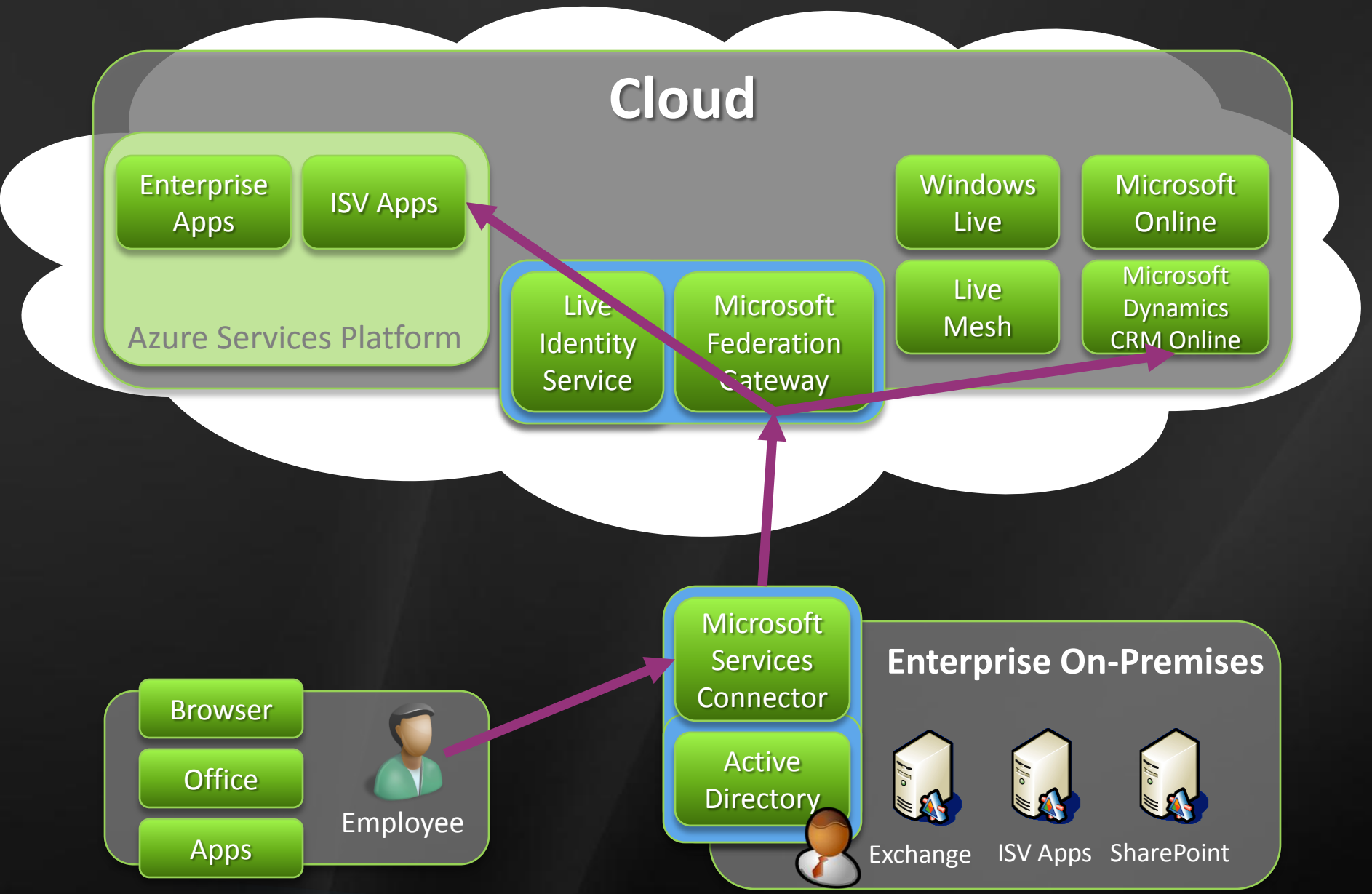
  → simplified trust management for enterprises & service providers
- Production deployment since 2006
- Now supports self-service federation provisioning

Microsoft Services Connection

- Connects Active Directory to Federation Gateway and Cloud services / applications
- Simple 1-time federation setup – auto-provisioning
- Flexible and customizable end -user experience
- Free download

Objective: Switch to cloud services without changing your existing identity infrastructure

Federated Enterprise Software & Service Topology



Microsoft Services Connector

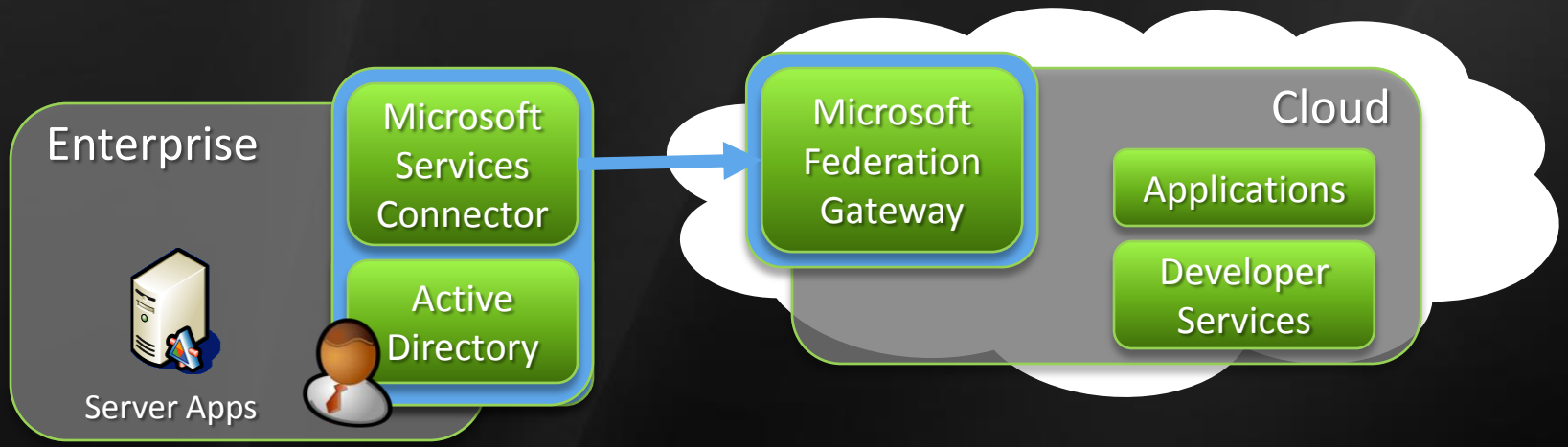
demo

Installation & Setup

Microsoft Services Connector

Setup

- Connects Active Directory to Federation Gateway and Cloud services / applications
- One-time federation setup – auto-provisioning
  - Domain ownership proved with SSL certificate from trusted CA
  - Registers enterprise domain, sign-in endpoint, and signing key(s)
- On-going federation management tasks automated



Microsoft Services Connector

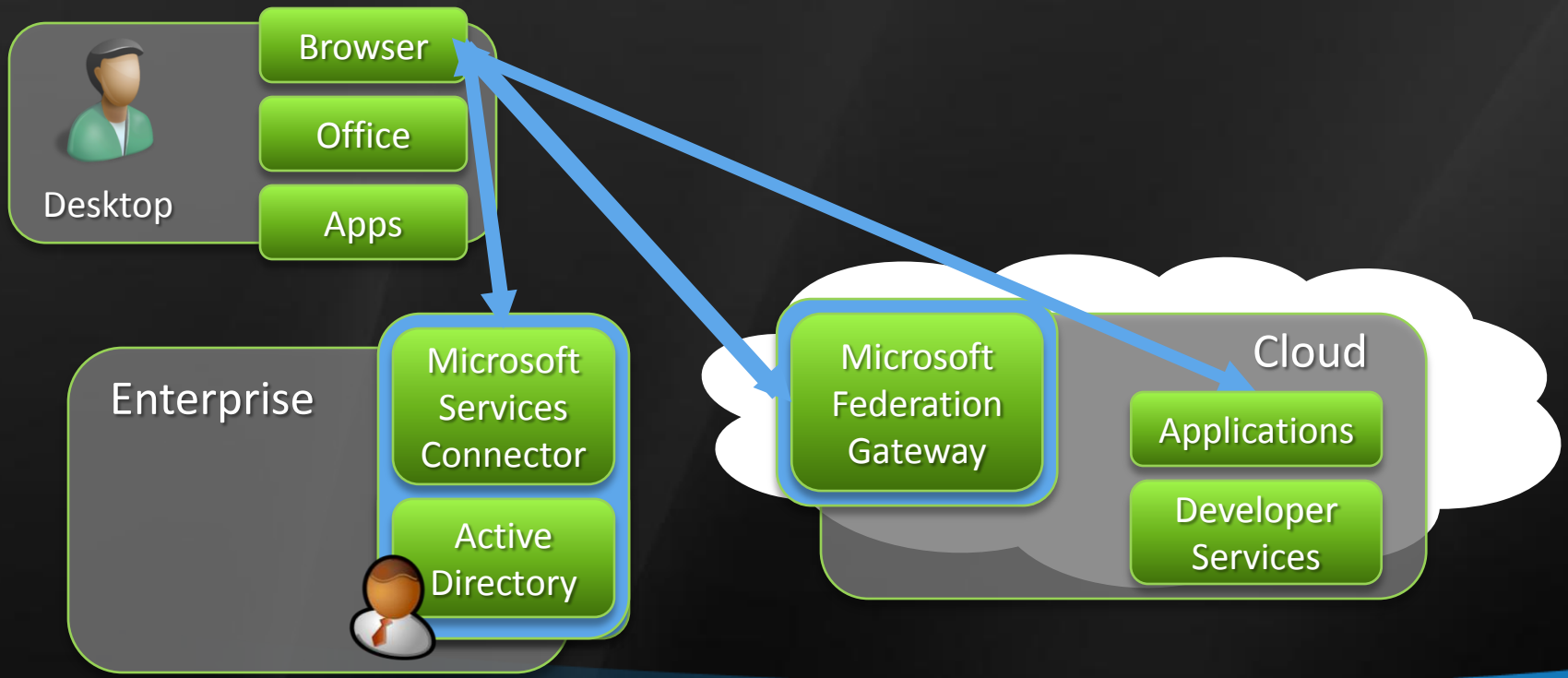
demo

Accessing federated resources
from inside corporate network

Microsoft Federation Gateway

Accessing Services

- User clicks link -- taken to Microsoft Services Connector for authentication
- Services Connector validates credentials with Active Directory
- Services Connector issues login token and redirects to Federation Gateway
- Federation Gateway validates token and transforms claims
- Federation Gateway issues service token and redirects to service
- User accesses service



Microsoft Federation Gateway

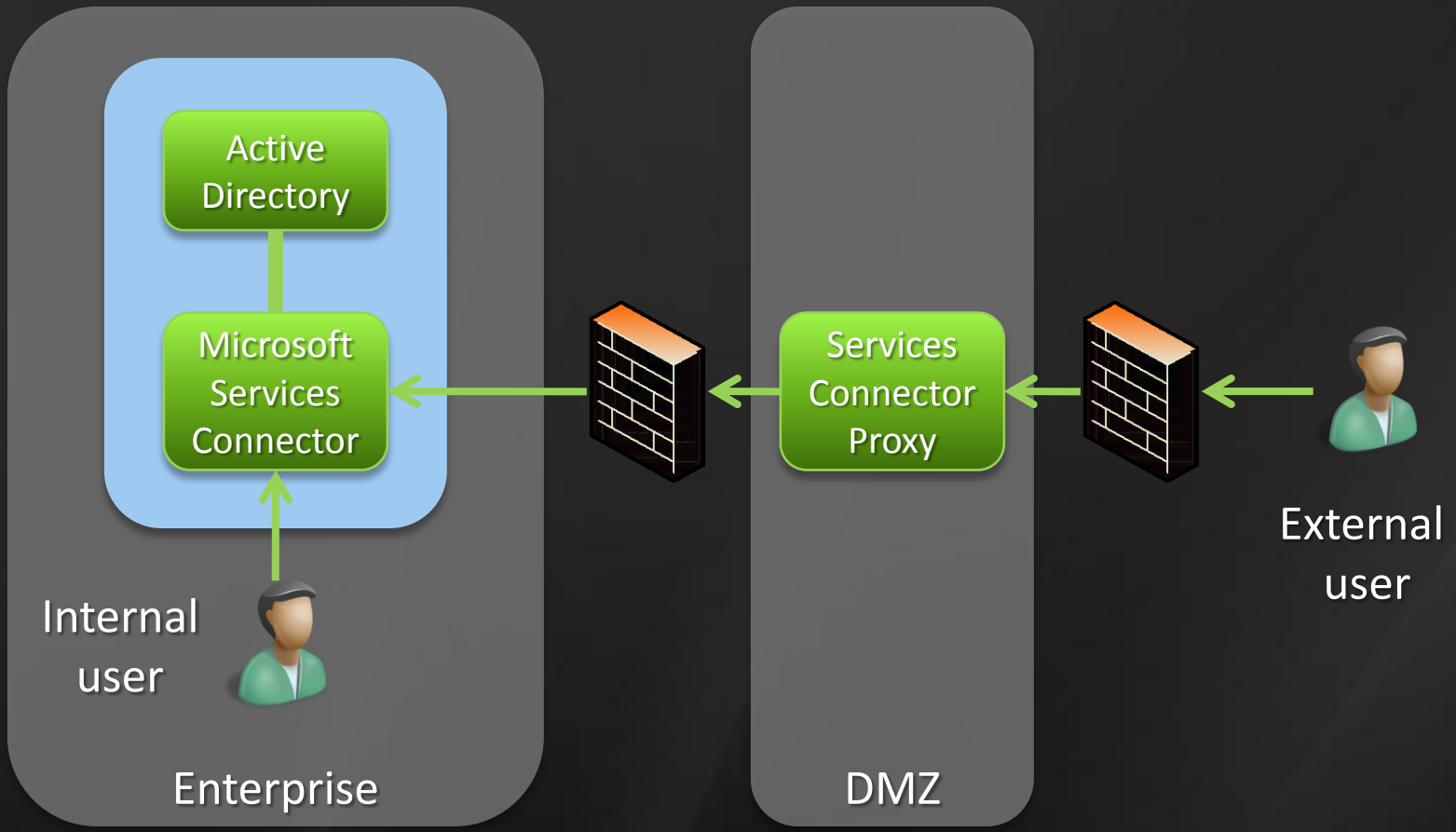
- Info for enterprises:
  - Microsoft Services Connector
    - Built on core “Geneva” technology
    - Upgrade path to “Geneva” Server
  - Works for businesses without AD – BYO (Bring Your Own)
  - Protocols: WS-*, SAML later
  - Tokens: SAML
- Info for relying services:
  - Frameworks: .NET, “Geneva”, Live
  - Messaging: WS-*, SAML , Live
  - Tokens: SAML, Live

Microsoft Services Connector

demo

Accessing federated resources
from outside corporate network

Deployment Options



- Range of network infrastructures:
  Single server, Server farm, Proxy server
- Active Directory: Single domain, Single forest, Multiple forests

Benefit: Reduced Federation Costs

- Federation Gateway & Services Connector provides:
  - Fewer federation relationships to configure
  - Protects corporate account security
  - No new user accounts needed
  - No extra passwords for users to forget!
- → Happier systems administrators! ☺

How You Get It

- Microsoft Services Connector
  - Community Tech Preview (CTP) available now: http://www.microsoft.com/servicesconnector
  - Beta in early 2009
- Microsoft Federation Gateway
  - Already in Production since 2006
  - Whitepaper: http://go.microsoft.com/fwlink/?LinkID=111692
  - Easy 2-step on-boarding with Microsoft Services Connector
  - BYI on-boarding document: http://go.microsoft.com/fwlink/?LinkID=131673
- We want your feedback!
  - CTP Feedback Forum: http://connect.microsoft.com/servicesconnector

Summary
Call-to-action

- Federated identity makes switching to Cloud services easier:
  - Microsoft Federation Gateway for federation of both enterprises and services
  - Microsoft Services Connector extends AD into the Cloud - just a 2-step on-boarding process
- Try the Microsoft Services Connector CTP now & sign up for early 2009 Beta release

Q & A

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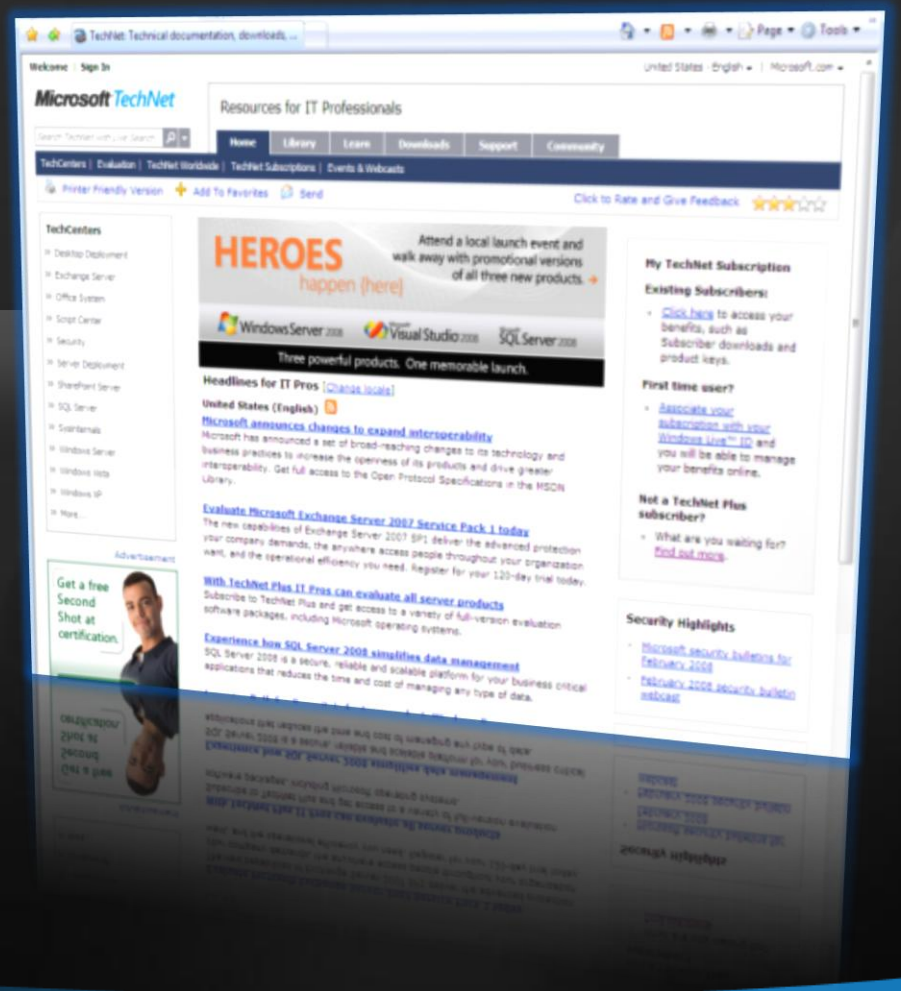

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