



# Accelerate cloud migration and app modernization with AWS Identity Services

Provide frictionless access and improve time to market for directory-aware workloads

# Agenda

Cloud adoption – business drivers and approaches

Identity-centric security as one of the foundational elements

Enterprise customers dependency on Active Directory

AWS Managed Active Directory as a catalyst in cloud transformation journey

Customer use-cases

Demo – AWS Managed AD integration with different AWS services

Learn more through available resources

# Business is growing



Improve security



Increase agility



Accelerate innovation

## Cloud transformation is accelerating

**59%**

of customers want to optimize existing use of cloud (cost savings)\*

**55%**

Faster time to market for mature cloud adopters vs. on-premises\*\*

## Providing business benefits as seen across thousands of migrations

**31%**

Average infrastructure cost savings

**62%**

IT staff productivity boost

**43%**

Fewer security incidents per year

**3x**

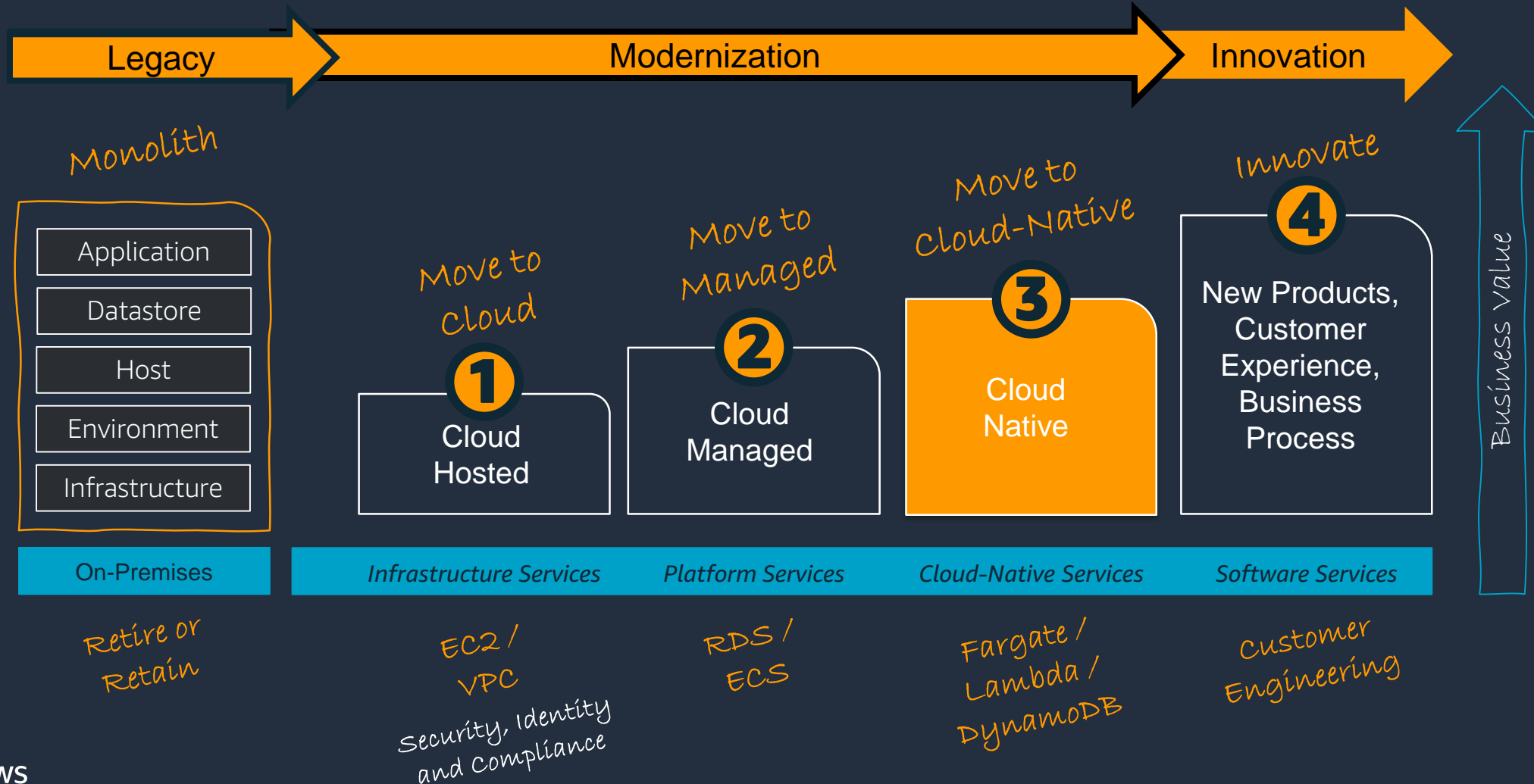
More features delivered per year



# There are many different business drivers

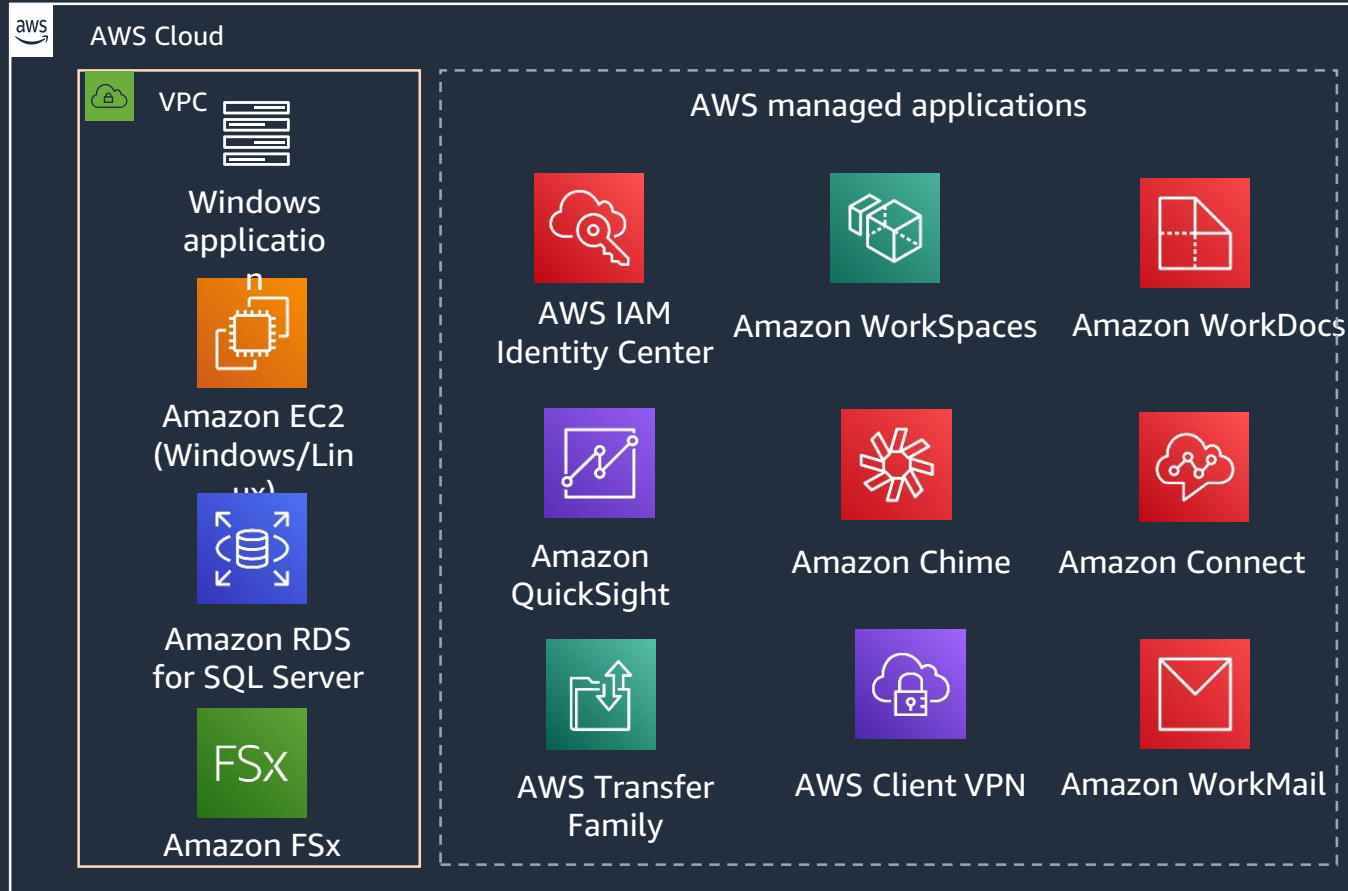


# Both migrating and modernizing are important to fully realize the benefit of cloud



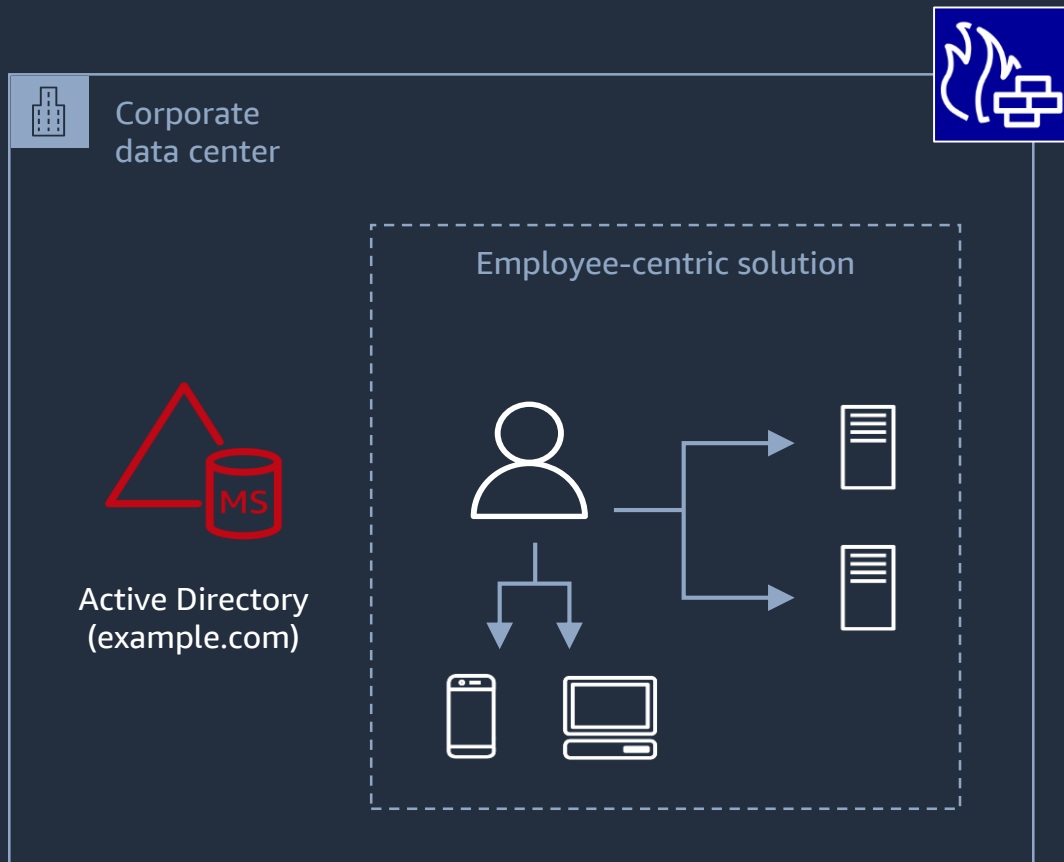
# Migrating and modernizing to cloud native services

## SECURING USER ACCESS



# Modernizing identity store

GAIN OPERATIONAL EFFICIENCY WITH A FRICTIONLESS EXPERIENCE



**aws** **Lift-and-shift** migrations

Three overlapping squares, T3, P4d, R6g, HMI

**aws** **Modernize** directly into the cloud

Two globe icons, server rack icon, Amazon Aurora, Amazon RDS, trash can icon



# Enterprises are still dependent on Active Directory (AD)

EVEN THOUGH AD WAS NOT DESIGNED FOR ANYWHERE COMPUTING



## Domain Services

---

Provides LDAP, Kerberos and NTLM authentication for domain joined users & devices



## Certificate Services

---

On-premises, cost-effective Public Key Infrastructure (PKI) service



## Federation Services

---

Single Sign-On through Active Directory Federation Services (ADFS)



## Rights Management Services

---

file-level protection, encryption and rights to documents



## Workforce identity management

---

Generalized LDAP service for application authentication, authorization

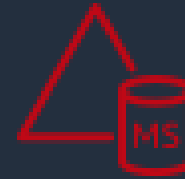
# AWS Directory Service provide scalable, secure and reliable options for cloud migration journey

FOCUSING ON BUSINESS INNOVATION INSTEAD OF MAINTAINING TECHNOLOGY



## AD Connector

- Redirect authentication requests from AWS to on-premises Active Directory
- No AD credential caching in the cloud
- Supports one instance per AWS account
- Highly available across 2 Availability Zones by default

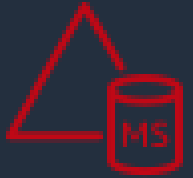


## AWS Managed AD

- Microsoft 2019 Active Directory delivered as a managed service
- Host AD users and groups or connect to on-premises AD
- One instance supports multiple AWS accounts
- Highly-Available with multi-region replication capabilities

# AWS Managed Microsoft AD

## IMPROVING OPERATIONAL EFFICIENCIES



### Fully Managed service for Windows Active Directory

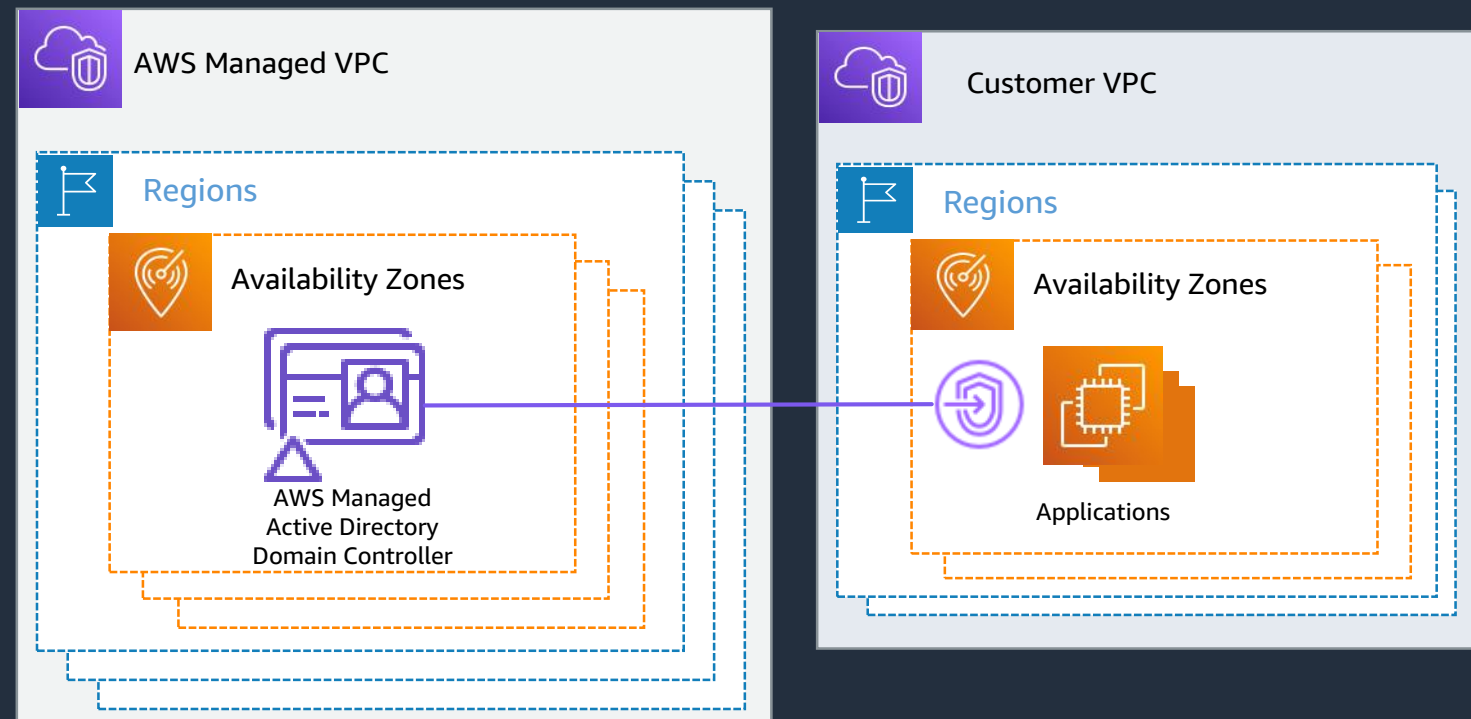
- Single tenant domain (single forest, single domain)
- Highly available across multi-AZ, multi-region
- Default 2x domain controllers, can scale out per Region

### AWS responsibility

- Deployment
- Patch
- Monitor
- Snapshot/Restore

### Customer responsibility

- Administer users, groups, GPOs, etc.
- Password policies
- Trust relationships



# AWS Directory Service fulfils industry standard compliance requirements



SOC 2 Type II  
Audit Report



ISO 27001:2013



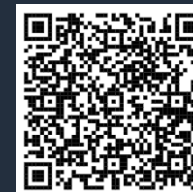
FedRAMP Moderate  
FedRAMP High



PCI DSS version 3.2 at  
Service Provider Level 1

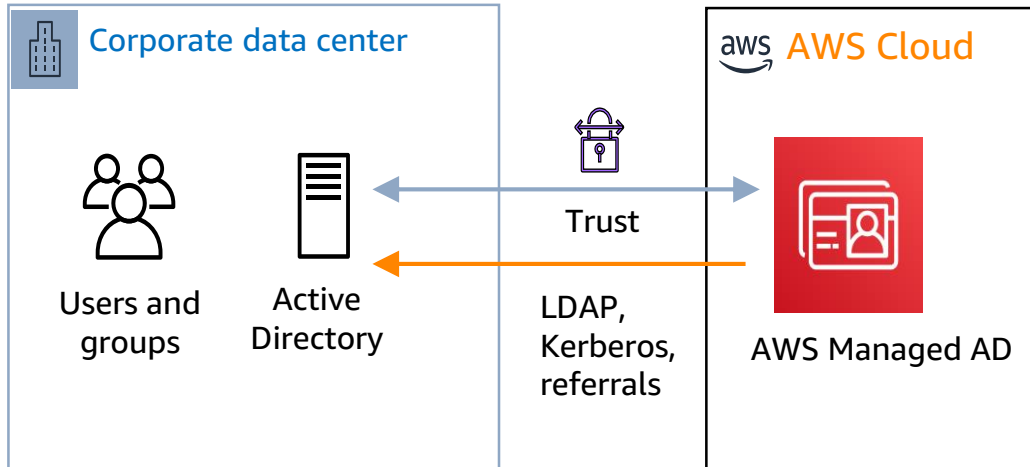


Health Insurance Portability and  
Accountability Act (HIPAA)  
compliance

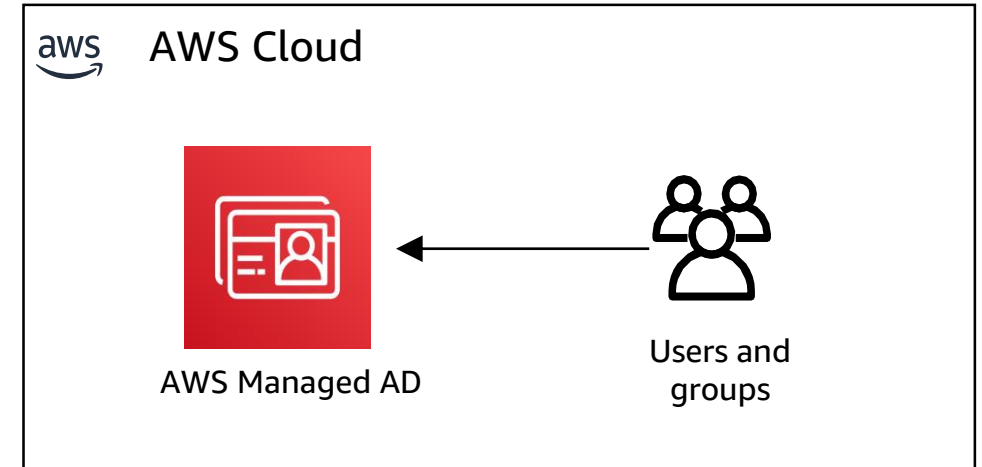


[AWS Services in Scope by Compliance](#)

# AWS Managed AD: Migrate and Modernize



AWS Managed AD with on-premise AD trust



Standalone AWS Managed AD

- Integrate with your existing enterprise AD with one-way or two trust relationships
- Use AWS Managed AD to manage **sub-set of enterprise identities** to eventually migrate off of on-prem AD at your own pace
- Migrate from your existing on-prem / self-managed AD to AWS Managed AD to **gain operational efficiencies**
- Migrate **identities to/from divestiture/acquisitions** to AWS Managed AD for streamlined access and infrastructure consolidation
- Empower dev teams to innovate and build quickly by setting up **ephemeral** non-production environments

# Key Features of AWS Managed Microsoft AD

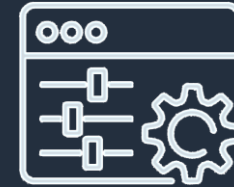
SECURE, FLEXIBLE, CONFIGURABLE AND SCALABLE



Actual  
Microsoft AD  
2019



Trust support with  
on-premises AD to  
avoid synchronizing  
passwords



Configurable  
directory settings  
based on your  
InfoSec policies



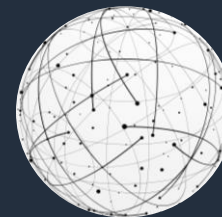
Manage users, groups,  
group policies for  
standalone Managed AD



Seamless domain join for  
your EC2 instances



Support multiple  
accounts and VPCs



Multi-region  
replication support  
including GCR



AWS-managed  
infrastructure

# Customers are using AWS Managed AD for variety of use-cases



## Quickly adopt AWS services

Quickly integrate Amazon EC2 and Amazon RDS instances to their domain for user access across

[Detailed Case Study](#)

## Scale across multiple regions

Integrated Managed AD for global enterprise to manage cross-account access and enable enterprise services

[Detailed Case Study](#)

## Provide frictionless access

Secure log in process using AWS Directory Service to enable scalable, cost-effective Desktop Virtualization Service using Amazon WorkSpaces

[Detailed Case Study](#)

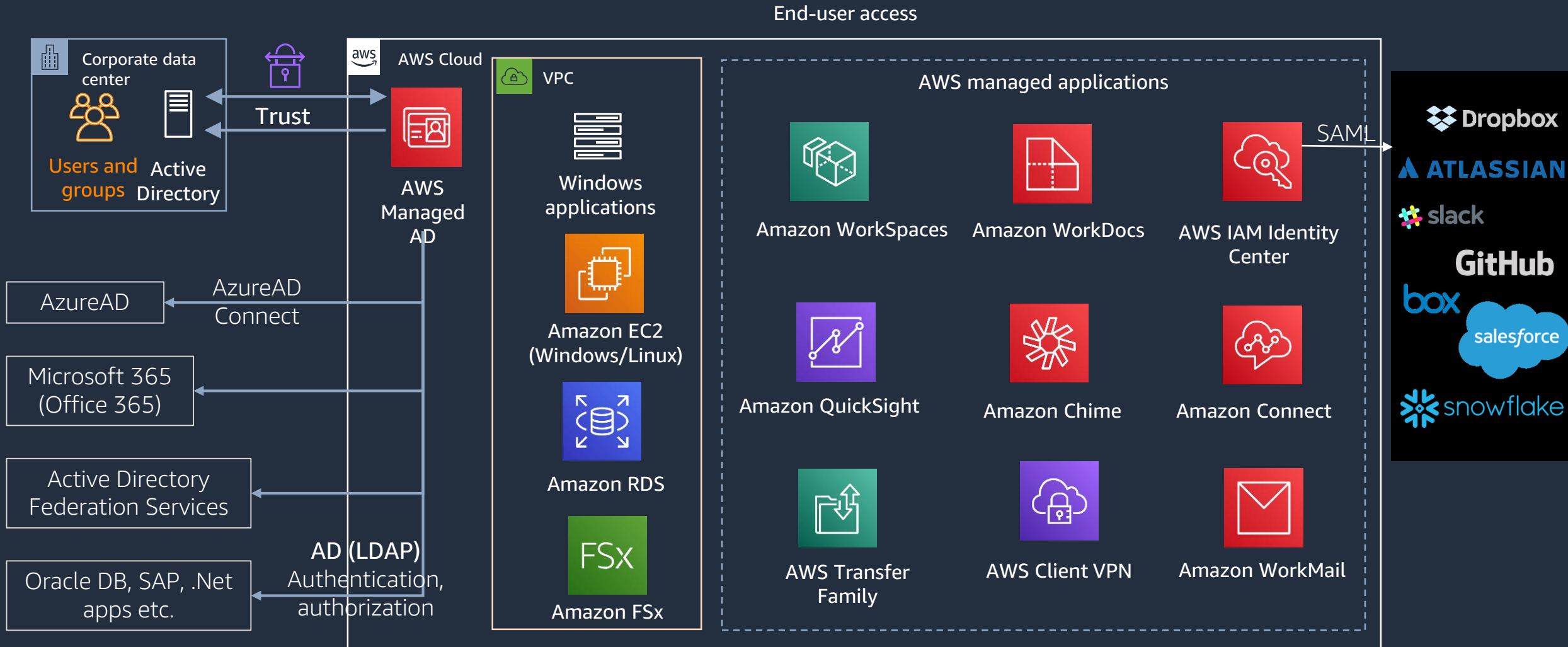
# Customer use-cases

DXC Technologies



# Application integration

INTEGRATE 10+ AWS SERVICES AND MANY MORE DIRECTORY AWARE WORKLOADS IN A SNAP



# Integration use-cases

Demo

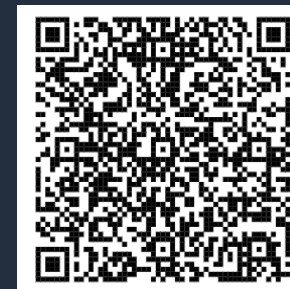
# Get started with AWS Directory Service



[AWS Directory Service](#)



[AWS Managed Microsoft AD](#)



[Learn more about AD Trusts](#)



[Immersion Day](#)



[Quick Start for AD](#)



[AWS Workshop for AD](#)



**Thank you!**