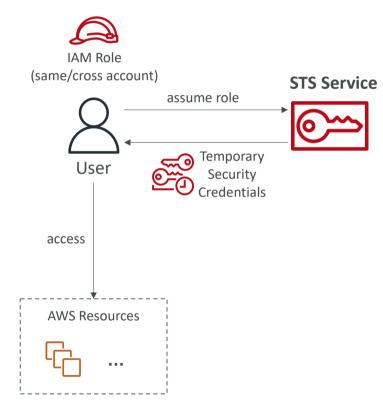
# Advanced Identity Section

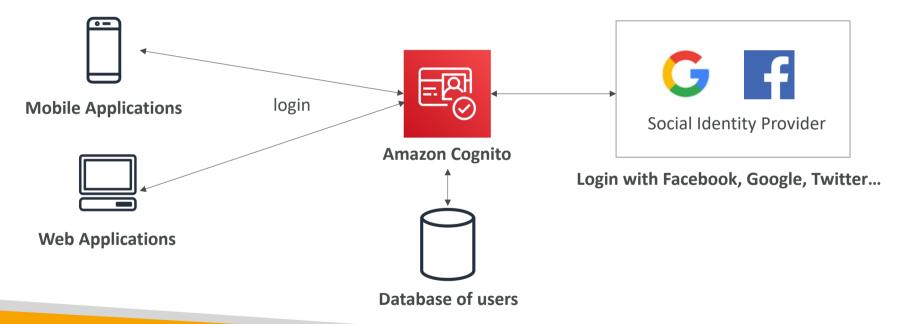
### AWS STS (Security Token Service)

- Enables you to create temporary, limitedprivileges credentials to access your AWS resources
- Short-term credentials: you configure expiration period
- Use cases
  - Identity federation: manage user identities in external systems, and provide them with STS tokens to access AWS resources
  - IAM Roles for cross/same account access
  - IAM Roles for Amazon EC2: provide temporary credentials for EC2 instances to access AWS resources



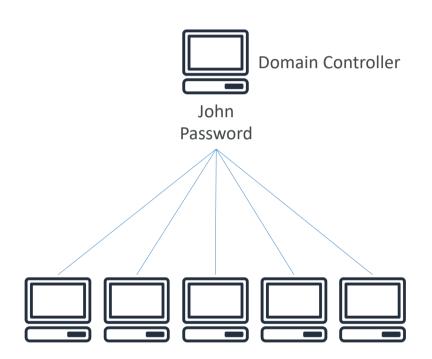
### Amazon Cognito (simplified)

- Identity for your Web and Mobile applications users (potentially millions)
- Instead of creating them an IAM user, you create a user in Cognito



## What is Microsoft Active Directory (AD)?

- Found on any Windows Server with AD Domain Services
- Database of objects: User Accounts, Computers, Printers, File Shares, Security Groups
- Centralized security
  management, create account,
  assign permissions



### AWS Directory Services

### AWS Managed Microsoft AD

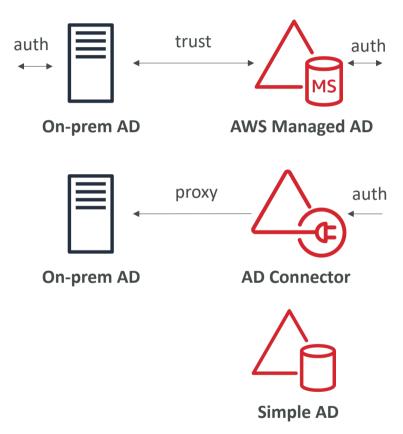
- Create your own AD in AWS, manage users locally, supports MFA
- Establish "trust" connections with your onpremise AD

#### AD Connector

- Directory Gateway (proxy) to redirect to onpremise AD, supports MFA
- Users are managed on the on-premise AD

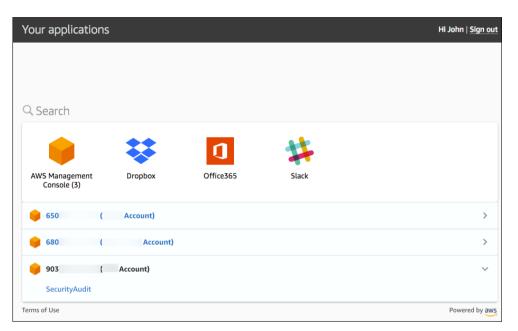
### • Simple AD

- AD-compatible managed directory on AWS
- Cannot be joined with on-premise AD



### AWS Single Sign-On (SSO)

- Centrally manage Single Sign-On to access multiple accounts and 3<sup>rd</sup>-party business applications.
- Integrated with AWS Organizations
- Supports SAML 2.0 markup
- Integration with on-premise
  Active Directory



https://aws.amazon.com/blogs/security/introducing-aws-single-sign-on/

# AWS Single Sign-On (SSO) - Setup with AD

#### **AWS SSO Use Cases**



### Advanced Identity - Summary

- IAM
  - Identity and Access Management inside your AWS account
  - For users that you trust and belong to your company
- Organizations: manage multiple AWS accounts
- Security Token Service (STS): temporary, limited-privileges credentials to access AWS resources
- Cognito: create a database of users for your mobile & web applications
- Directory Services: integrate Microsoft Active Directory in AWS
- Single Sign-On (SSO): one login for multiple AWS accounts & applications