

AWS
re:Invent

WIN405-R

Active Directory design patterns on AWS

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Active Directory in AWS



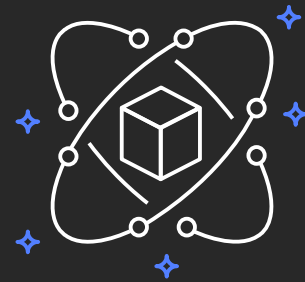
Amazon FSx

Managed
File System



SSO

AWS Single Sign-On
and
Azure AD



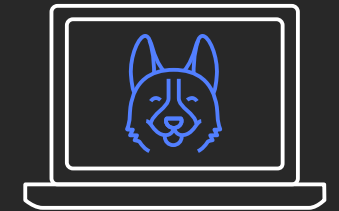
Domain Join

Automatic and
Manual



Amazon RDS

Database Security



Amazon Workspaces

VDI

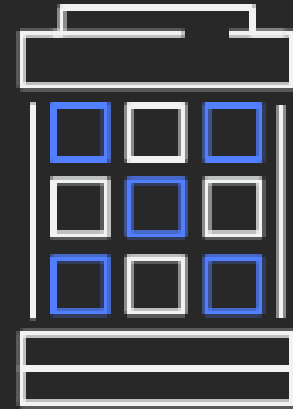
Three major patterns

- AWS Managed Microsoft AD
 - Active Directory on EC2
 - Active Directory on-premises or external
-
- For many clients this will be a combination of all three patterns



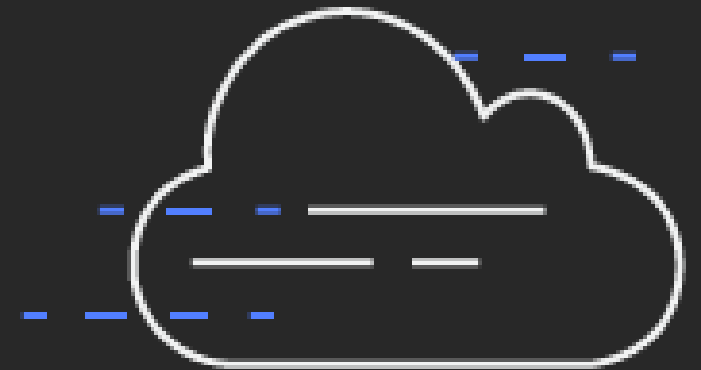
Enterprise example

- Single sign-on using Azure AD
 - Console access
- AWS Managed Microsoft AD for Amazon RDS SQL
 - One AWS Managed Microsoft AD per region (private preview)
- Domain controller on-premises connected with AWS Direct Connect
 - Domain controllers are in locations near AWS Regions
 - Microsoft dedicated subnets



DNS is critical for hybrid

- Resolution from AWS to on-premises
 - Needed to access internal resources
- Resolution from on-premises to AWS
 - Private resources will not be visible unless this is set up
- Internet resolution
 - Use forwarders to choose the path of internet resolution



Demo

- Set up AWS Managed Microsoft AD
 - Size considerations
 - Show issue with contacting on-premises resources
- Show exiting on-premises domain configuration
 - Show issue with accessing AWS resources
- Set up Amazon Route 53 Resolver
 - Show working bidirectional DNS



Demo

Questions?

Thank you!

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