Create and Manage AD DS Security Principals



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Overview



Create and manage AD DS users and groups

Manage users and groups in multi-domain and multi-forest scenarios

Implement group managed service accounts (gMSAs)

Join Windows Servers to AD DS, Azure AD DS, and Azure AD



Deploy and Manage Active Directory Domain Services

Deploy and Manage Domain Controllers

Configure Active Directory Forest Environments

Create and Manage AD DS Security Principals

Implement and Manage Hybrid Identities

Manage Windows Server with Group Policy



Manage AD Users and Groups



AD Domain User Account

```
New-ADUser -Name "Beth Workman" -GivenName "Beth" `
```

- -Surname "Workman" -SamAccountName "beth" `
- -AccountPassword "St@rt3rPa\$\$w0rd!" `
- -ChangePasswordAtLogon \$true -Enabled \$true



Group Types

Security: Assign permissions

Distribution: Email recipient

Group Scopes



Local: Standalone servers and workstations



Domain Local: Exist on domain controllers with domain scope



Global: Organize users; forest scope



Universal: Members and visibility is forest scope



Administrator Groups



Administrators: Non-domain servers and workstations



Administrators: Domain local group on DCs



Domain Admins: Global within each domain



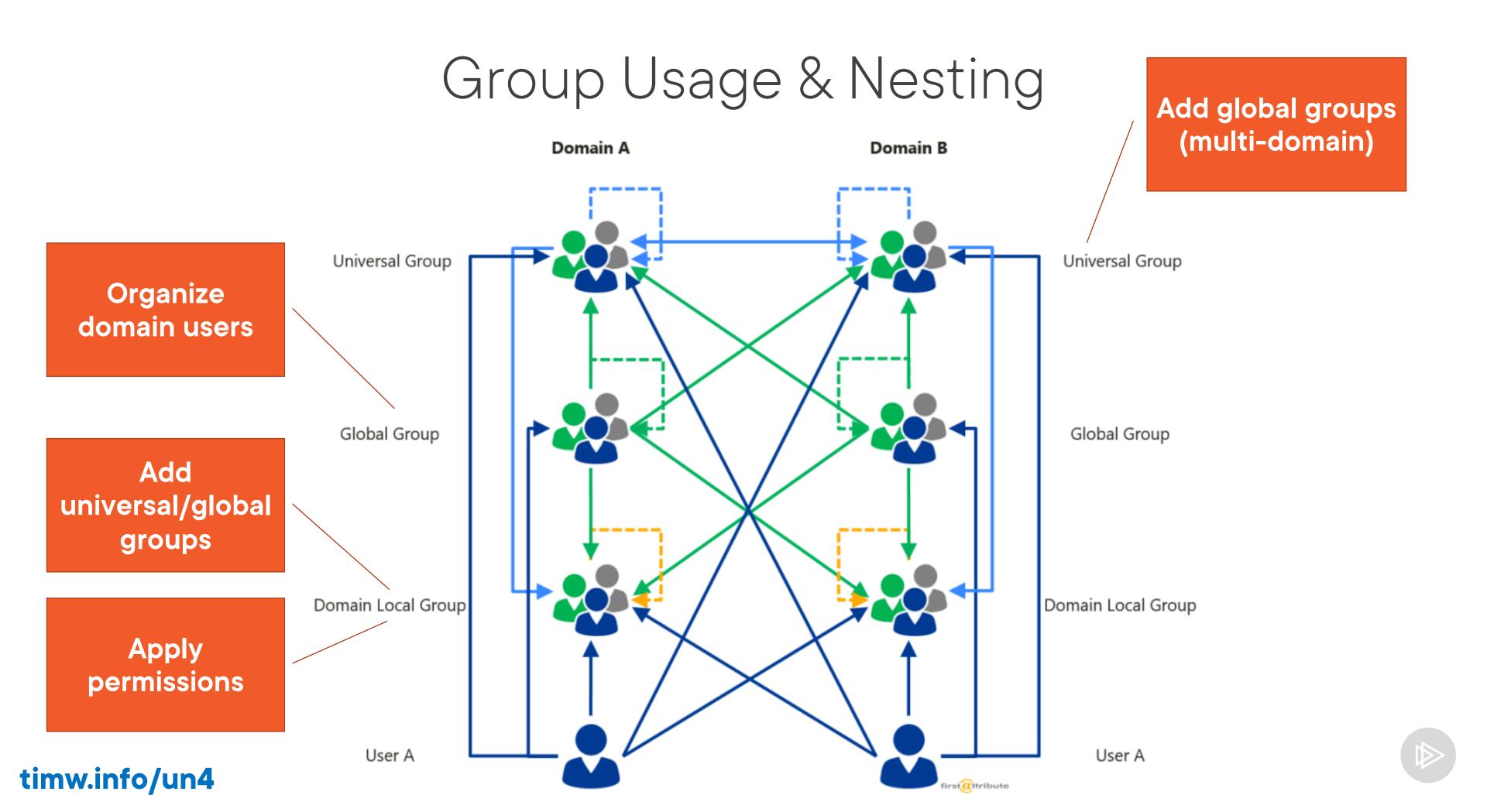
Enterprise Admins: Members of Administrators group in every forest domain



Special Identities

Network Service System Everyone sdf sadf sadf





Group Managed Service Accounts



Automatic password management (240-character passwords)

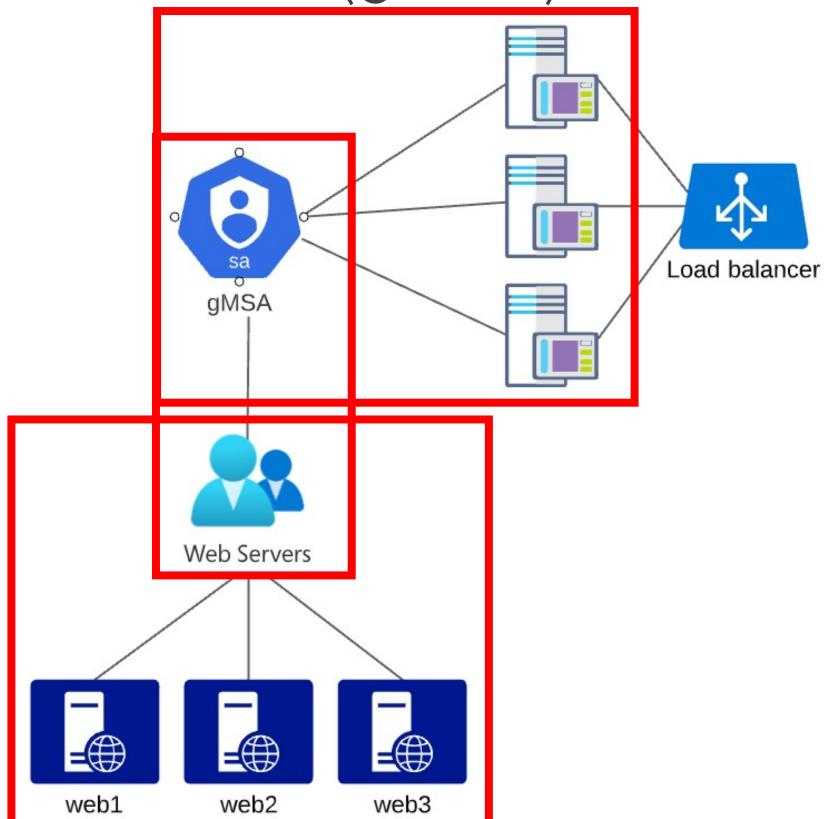
Password is unknown to any person

Password changes automatically on a regular schedule

Password change is automatically picked up by your application

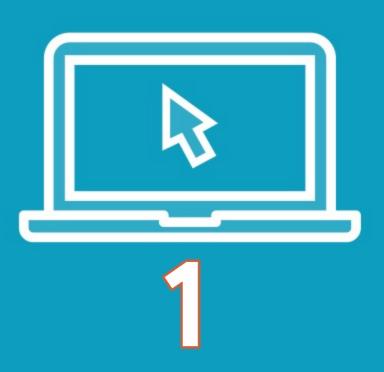
Credential can be used across multiple computers

Group Managed Service Account (gMSA)





Demo



Show default group membership (CLI, ROOTDC1)

Create user, global group, universal group

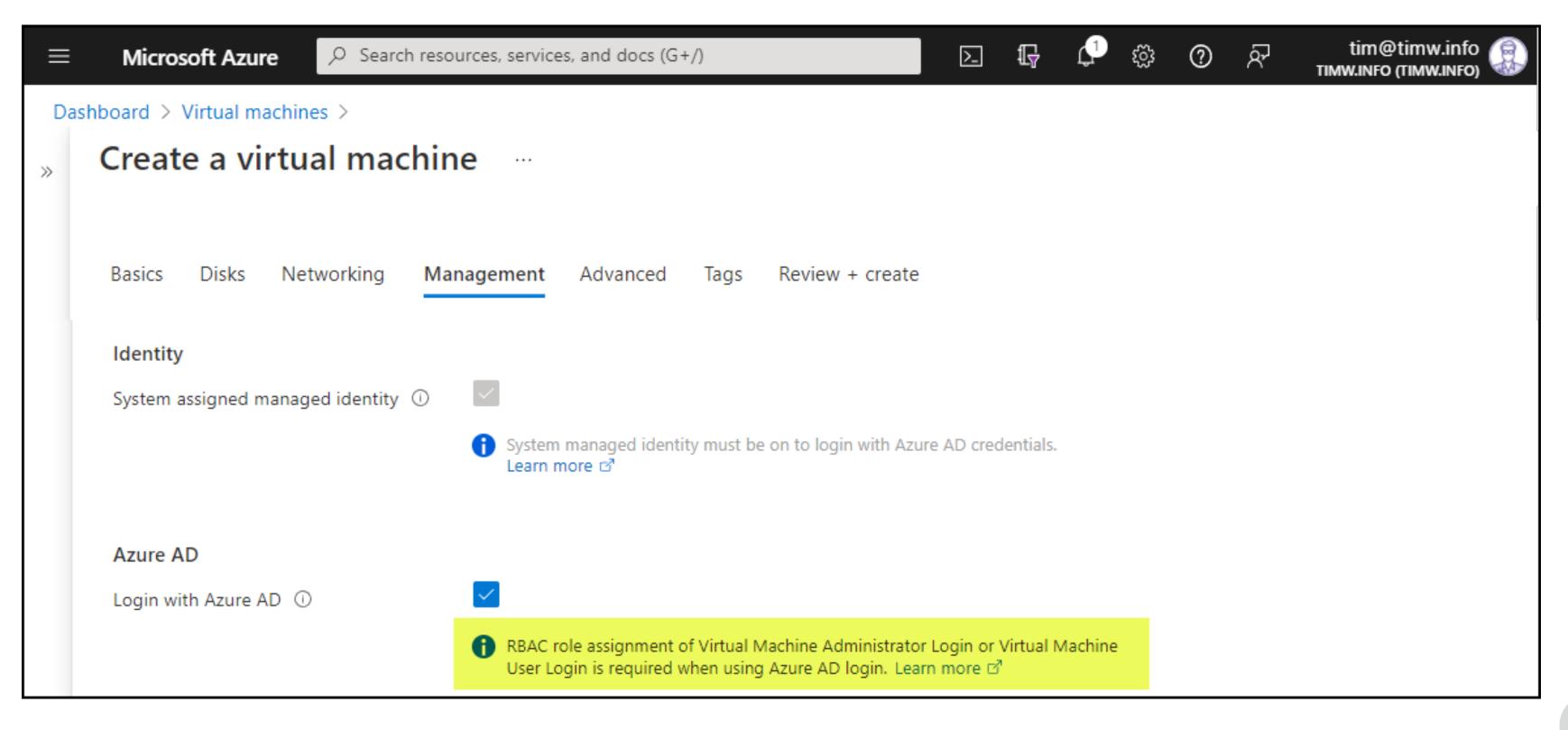
Put in domain local groups in child and remote forest

gMSA

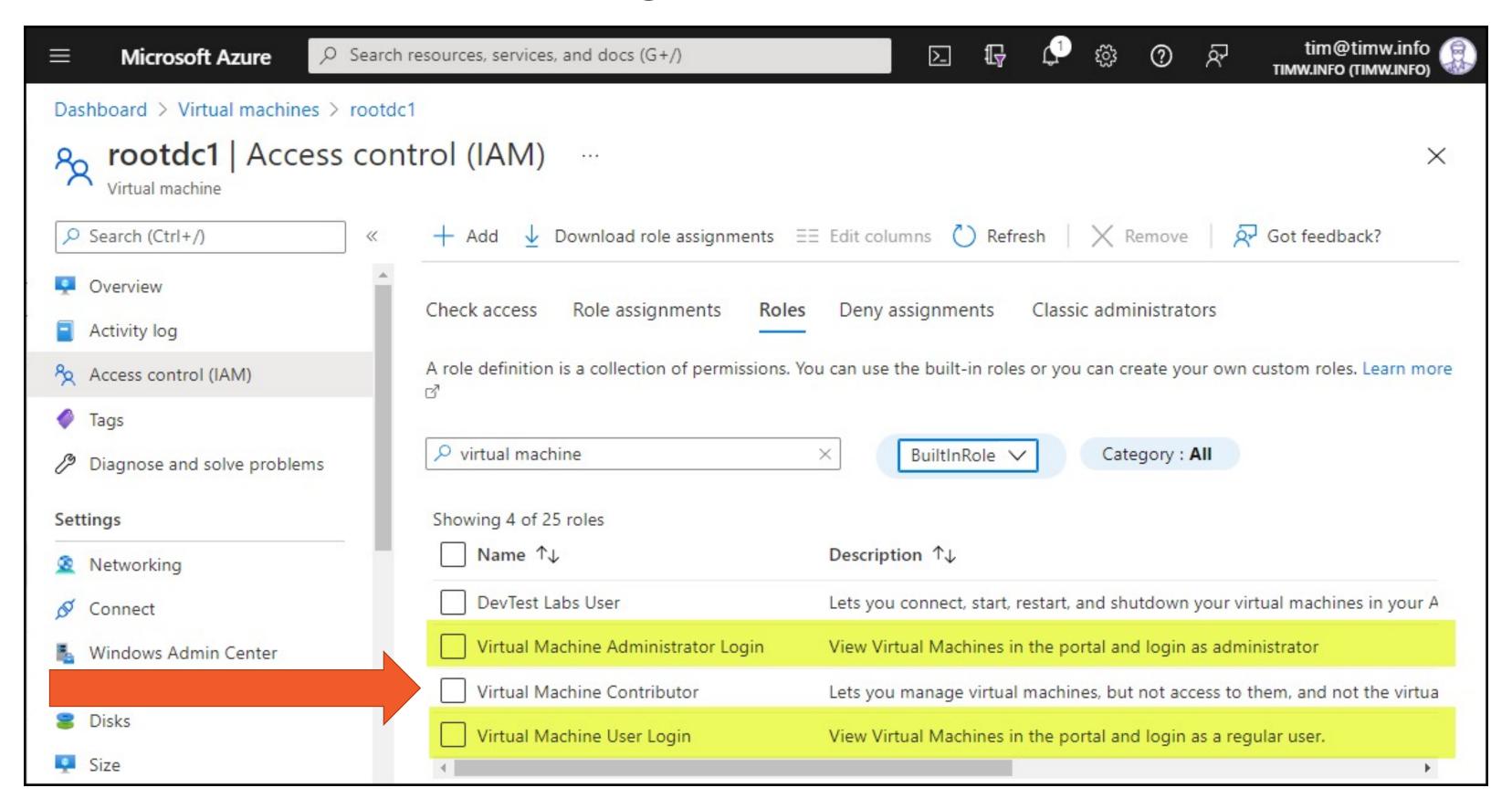
Join Windows Server to AD DS, Azure AD DS, and Azure AD



Azure AD Sign-in for Azure VMs

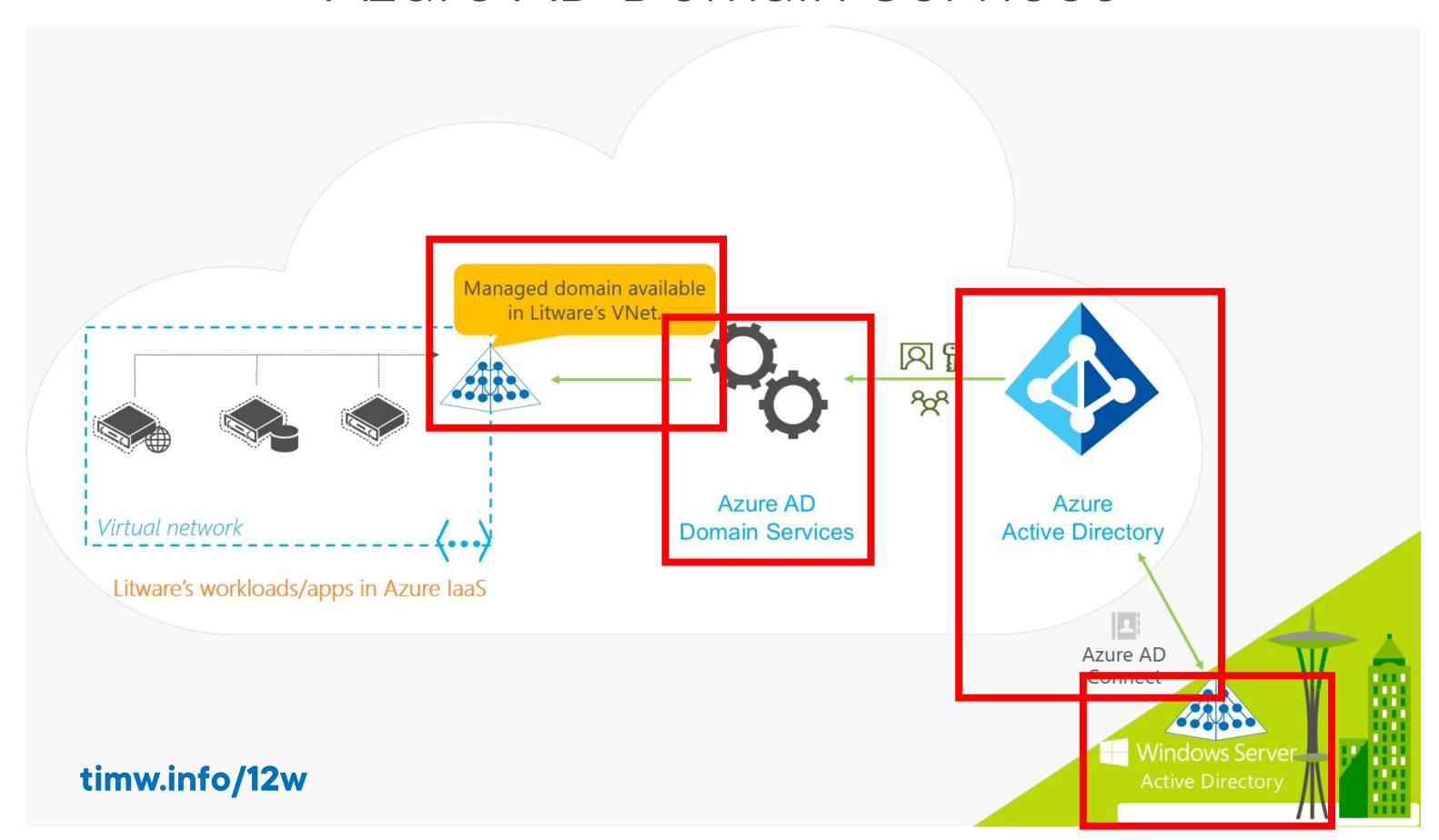


Azure AD Sign-in for Azure VMs





Azure AD Domain Services



Azure AD Domain Services Deployment

Set up Azure AD
Connect
account
synchronization

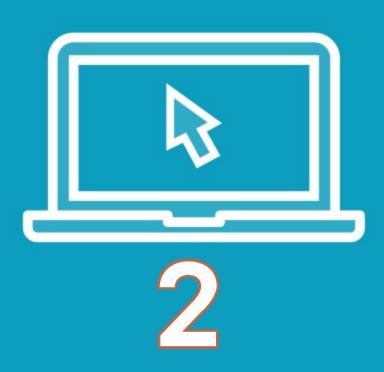
Deploy managed domain to a virtual network

Update VNet DNS settings

Enable user accounts for Azure AD DS



Demo



Azure AD DS deployment

Azure AD join

- Azure AD sign into Azure VM



Summary



AD user and group management hasn't changed much at all over the past 20 years

Keep in mind that Azure AD DS is a special-case product

Think about the local AD accounts you'd like synchronized to Azure AD to facilitate single sign-on (SSO) to cloud apps

Up Next: Implement and Manage Hybrid Identities