



• Azure AD is the identity provider for the Microsoft clouds • Azure • Microsoft 365 • Dynamics 365 • Azure AD ≠ AD in the cloud • Azure AD SKUs and Licensing



Users
 Groups (Assigned/Dynamic)
 Enterprise Applications/Azure Resources (Service Principals)
 Devices
 Stuff
 Users and groups will often come from AD



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Process And Administrative Units Many built-in roles related to Azure AD and Microsoft SaaS solutions Roles can be given to users and a special type of group (cloud) Custom roles can be created if built-in do not meet requirements Always think least privilege Scope is normally global however Administrative Units can limit scope of roles to subset of users https://mystaff.microsoft.com/ may be useful for simple management

PRIVILEGED IDENTITY MANAGEMENT • Enables elevation of Azure AD (and ARM) roles when needed for limited time • Roles must be pre-assigned to be available for users • Users then elevate on-demand or for a future time • Azure AD P2 feature!

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Passwords on their own are not good!

MFA blocks 99.9% of attacks

What is MFA?
Something we know (pin/gesture)
Something we are (biometric)
Something we have (phone, token, laptop)

Should be used sparingly or responding will become muscle memory!

Azure AD P1 OR use Security Defaults (or be a Global Admin)
Hello for Business is strong authentication!

• It is evolving
• Today there are custom controls that integrate with Conditional Access
• New implementation will bring better integration including step-up authentication
• To use Azure MFA from on-premise such as RADIUS there is an extension for NPS

SECURING REGISTRATION AND SSPR

• MFA registration is combined with SSPR
• https://aka.ms/SSPRsetup

• There is a chicken & egg problem

• Users must initially setup their security registration which would authenticate with password only

• Conditional Access – User actions – Register security information can lock down

• https://passwordreset.microsoftonline.com

ONDITIONAL ACCESS

 Is triggered for any authorization regardless of authentication method
 Provides rich controls around users, roles, apps, environment etc
 AAD P1+

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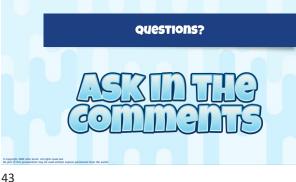
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Often we will have people in other companies we want to collaborate with They can be invited into our AAD as a B2B guest B2C is aimed at our customers as a separate type and tenant instance that is fully customizable with other types of social identity support Changes coming in future to more unification



Good old AD DS is likely not going anywhere
 Azure AD DS provides a managed AD with objects replicated from AAD (requires password hash sync)
 If have existing AD typically extend that to Azure
 VMs can be auto-joined to AD through extension (store creds in Key Vault!)



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