

Eric Berg

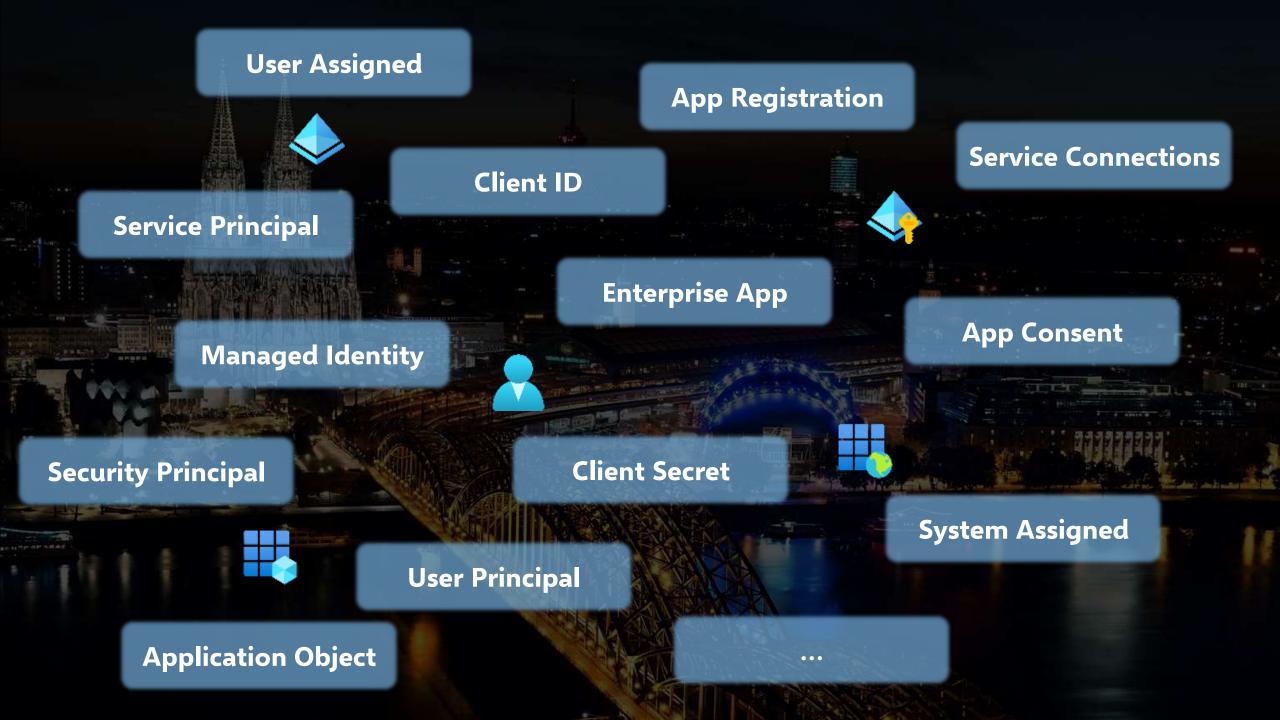
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- MVP Azure & CDM, LinkedIn Learning Trainer
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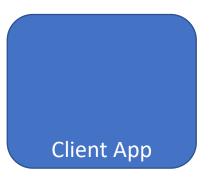








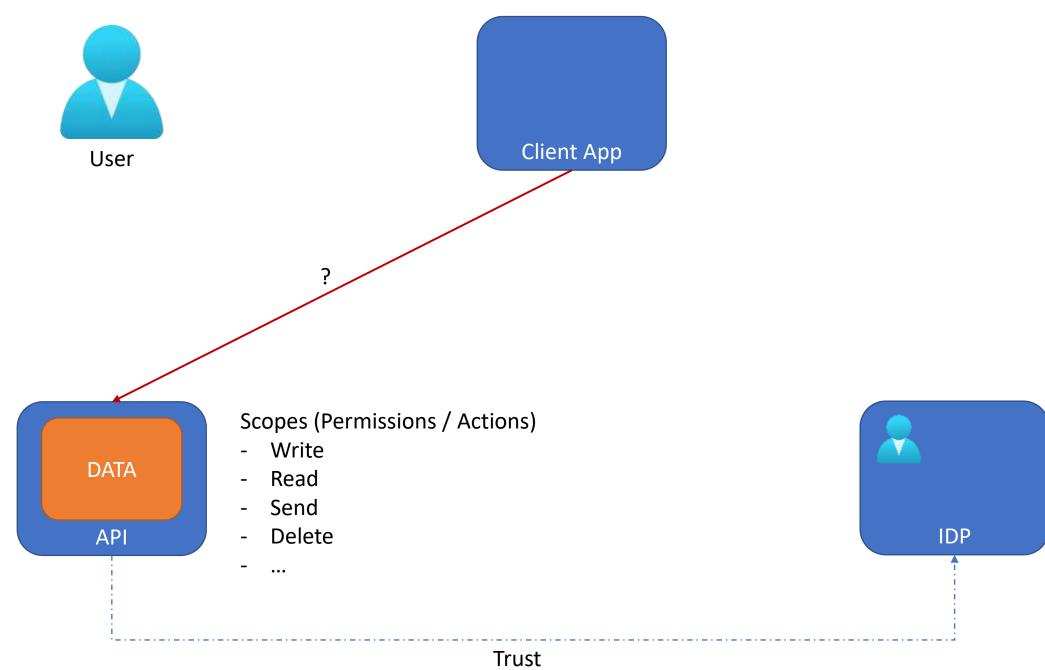


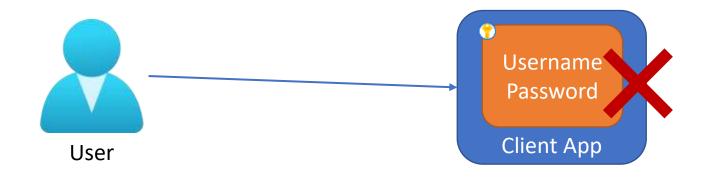


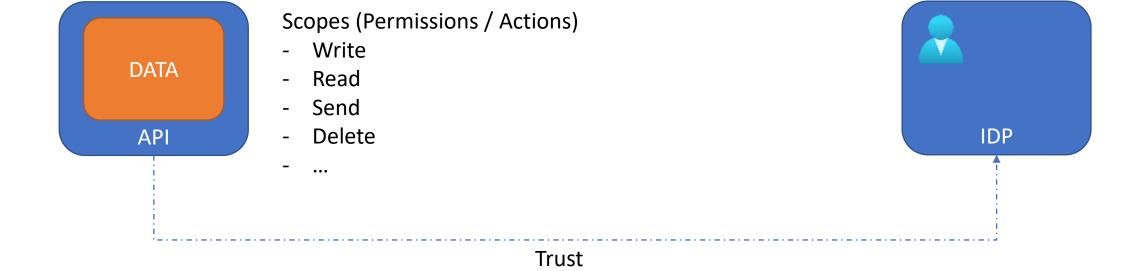
Scopes (Permissions / Actions)

- Write
- Read
- Send
- Delete
- ...







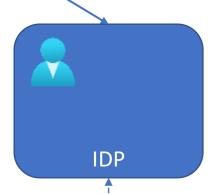






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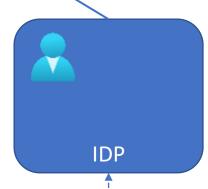


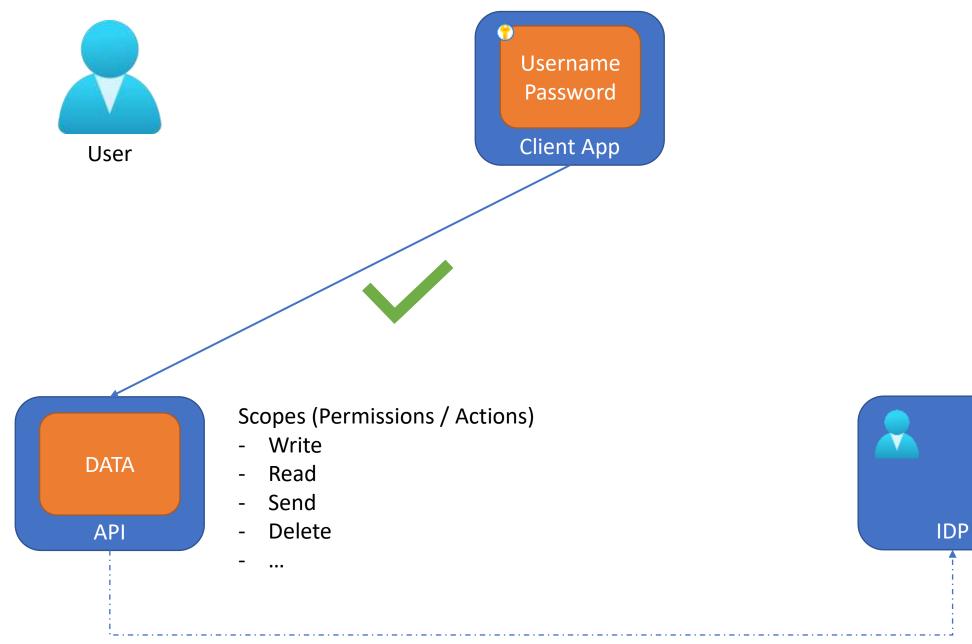




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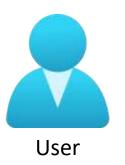


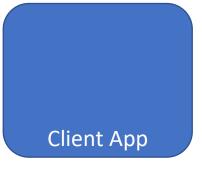


This is how it flows ... in AAD

The following diagram shows the ROPC flow.

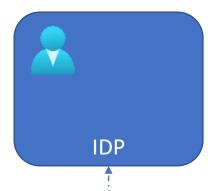






Scopes (Permissions / Actions)

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Client App

DATA

Scopes (Permissions / Actions)

- Write
- Read
- Send
- Delete
- ..



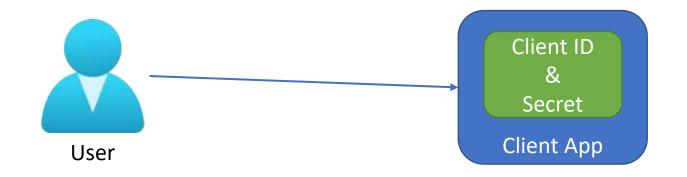


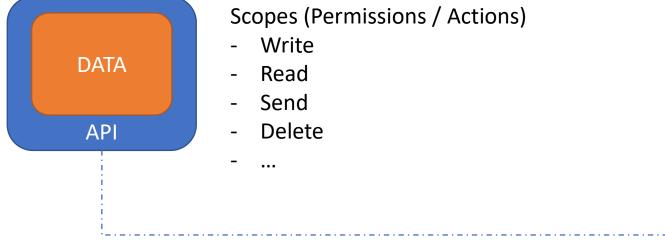
Client ID & Secret Client App

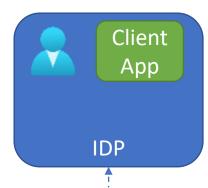
DATA

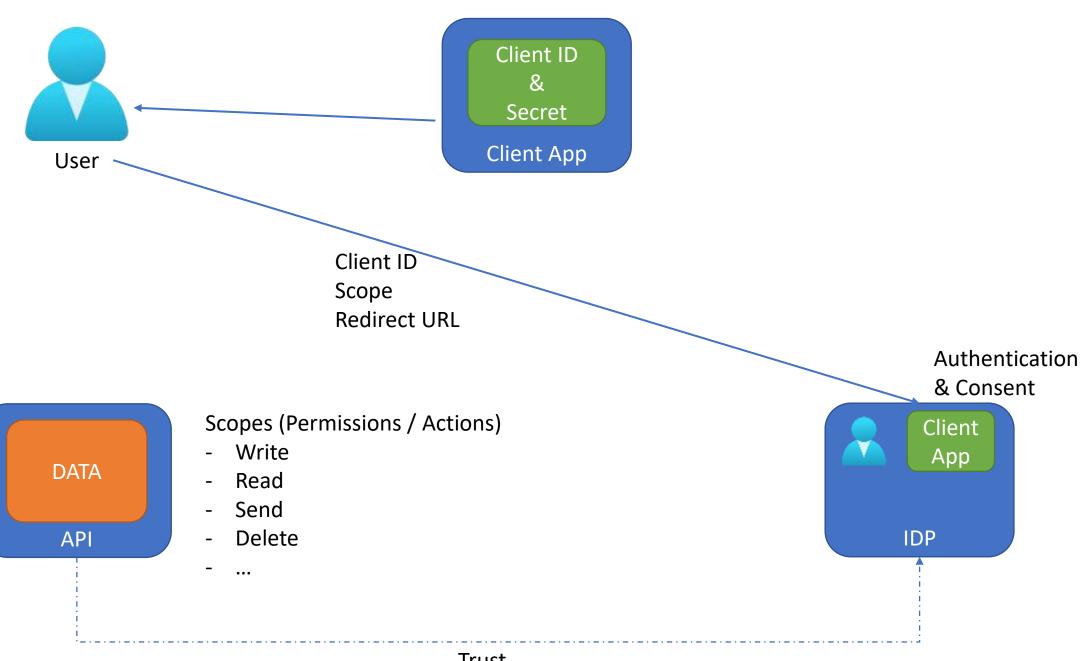
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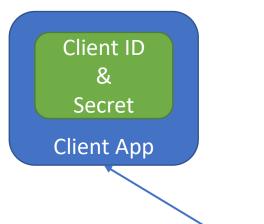






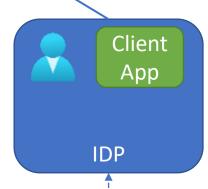






Scopes (Permissions / Actions)

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Authorization

Code



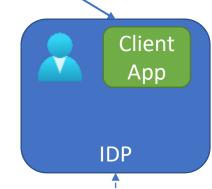
Client ID & Secret Client App

> Authorization Code Client ID (Secret)

DATA

Scopes (Permissions / Actions)

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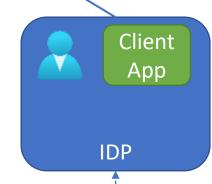


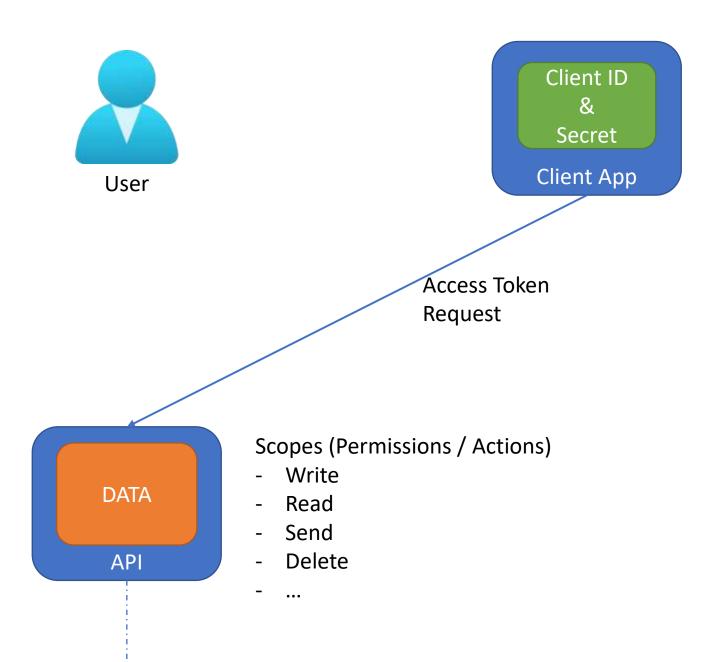


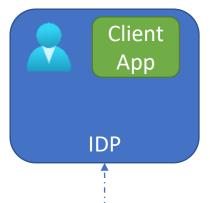
Access Token Refresh Token (Identity Token)

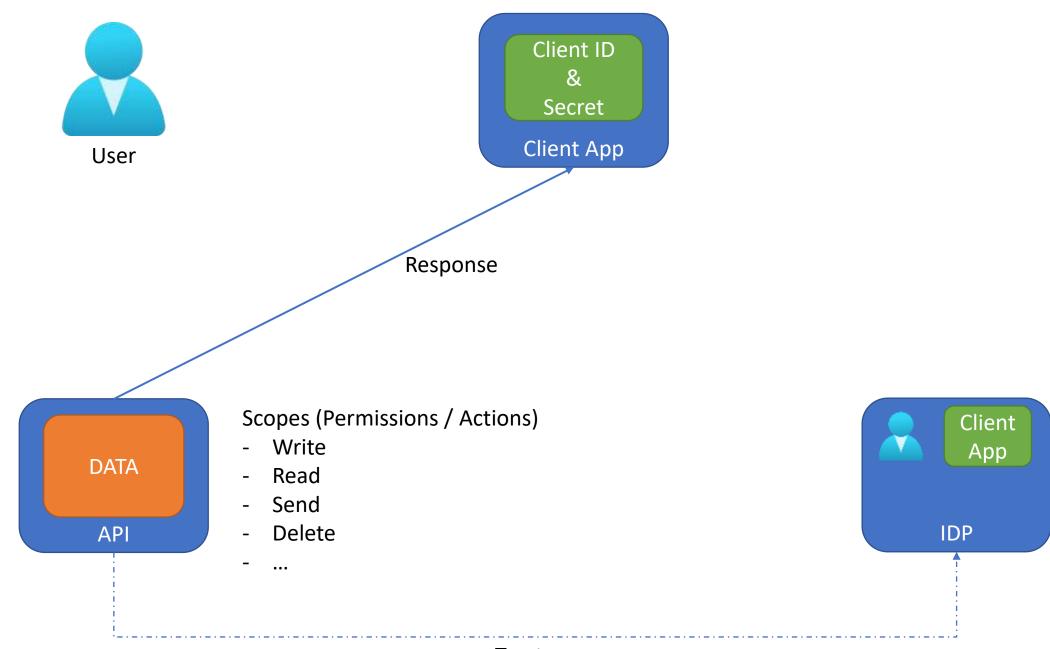
DATA

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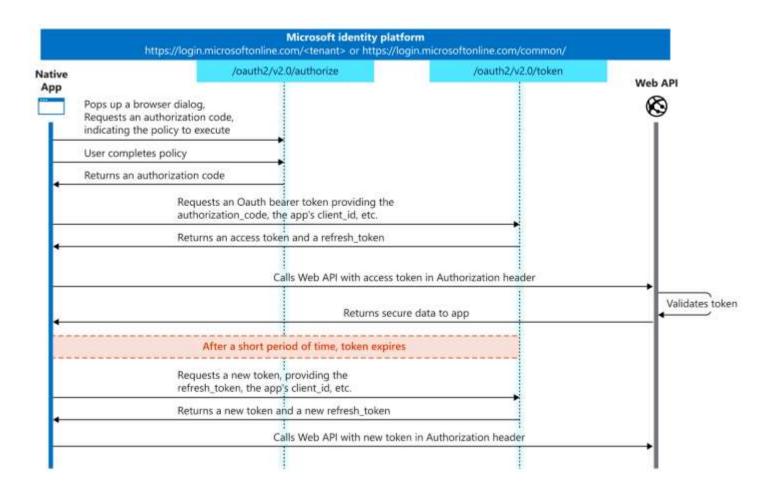


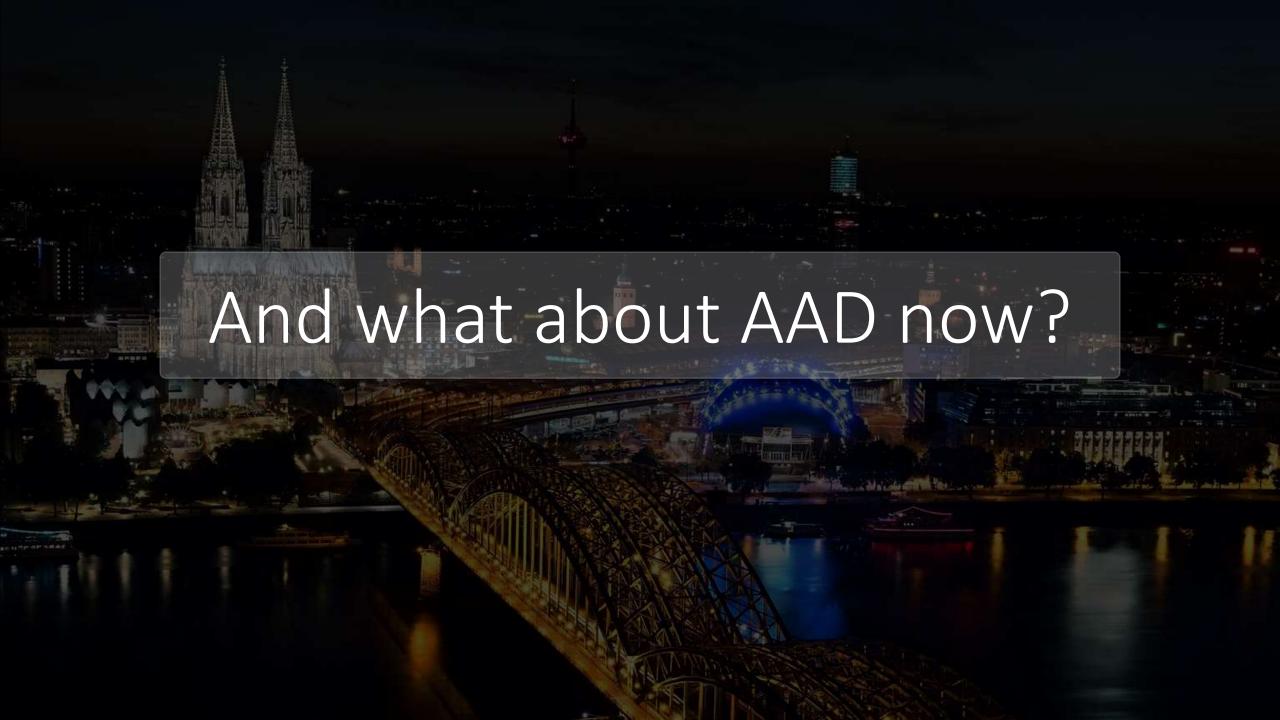


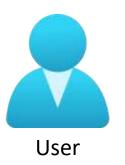


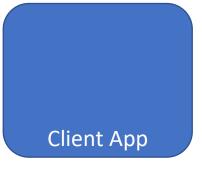


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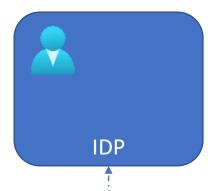






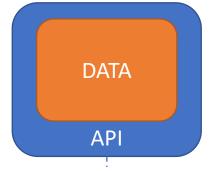
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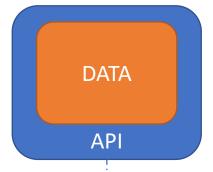


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- Write
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App Registration
Unique ID
Scope
Secret

DATA

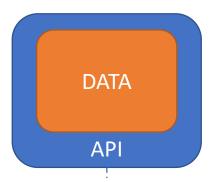
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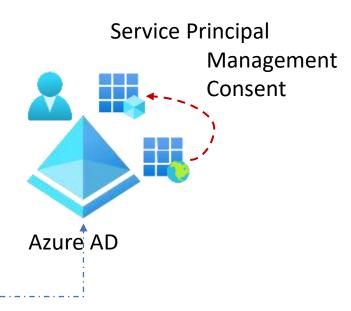








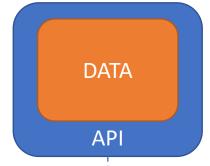
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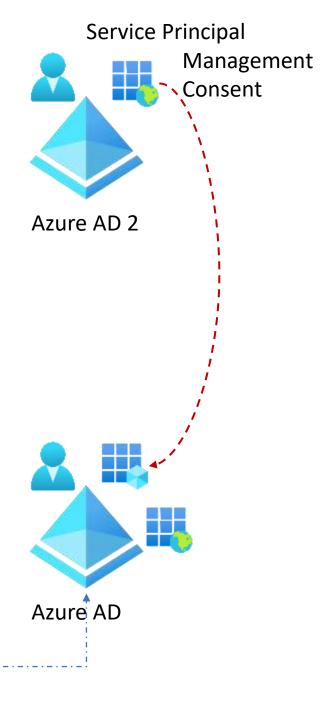








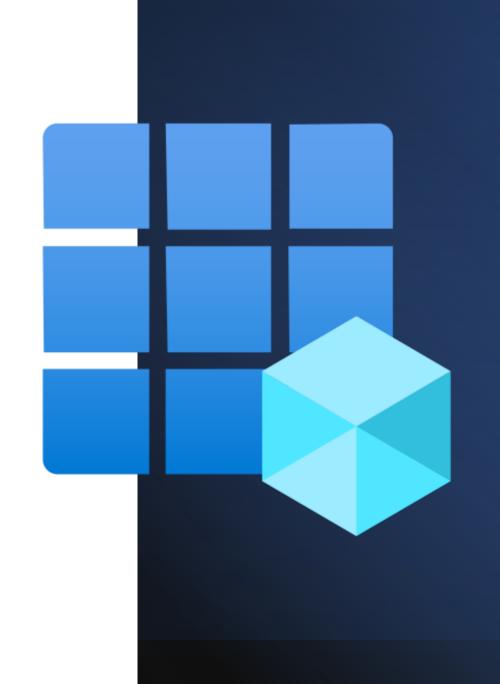
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Application Object – App Registration

- Created in "Home tenant"
- App Registration stays here
- App Object used as blueprint to create service principals in every tenant the app is used
- Defines 3 aspects
 - How to issue tokens
 - Resource access
 - Actions



Service Principal Object – Enterprise App

- To access resources secured by AAD you need entity represented by security principal
 - Users = user principal
 - Applications = service principal
- Security principal defines
 - Access policy
 - Permissions



Service Principal Object – Types

- Application
 - Representation of an app object from a single tenant
 - SPO defines what app can do, who can access, and resource access
- Managed Identity
 - Auto-managed inside Azure
 - Linked to Azure Resource
 - System or User Assigned
- Legacy
 - Legacy was created before app registration
 - Only used in tenant where it was created





Create them

- App registration
 - Create AAD Integration
 - Portal
 - PowerShell / CLI / Graph
- Enterprise App
 - IT Admin
 - Log in to 3rd party app
 - Consent



Use them

- Access 3rd Party Apps
 - e.g. Calendly, Sessionize or others
- Assign roles in Azure
 - e.g. KeyVault Access, Resource Graph or
- Allow graph access
 - e.g. Profile, Mail or Calendar
- Service Connections
 - e.g. Azure DevOps, Management Tools or DevTools



JOIN THE CLOUD IDENTITY LOUNGE AT 8:00 PM (CEST)

Roundtable discussion and Q&A on experiences from the field, current trends and more! Interactive session to bring your questions and use the opportunity to meet the speakers or exchange with members of the community!

