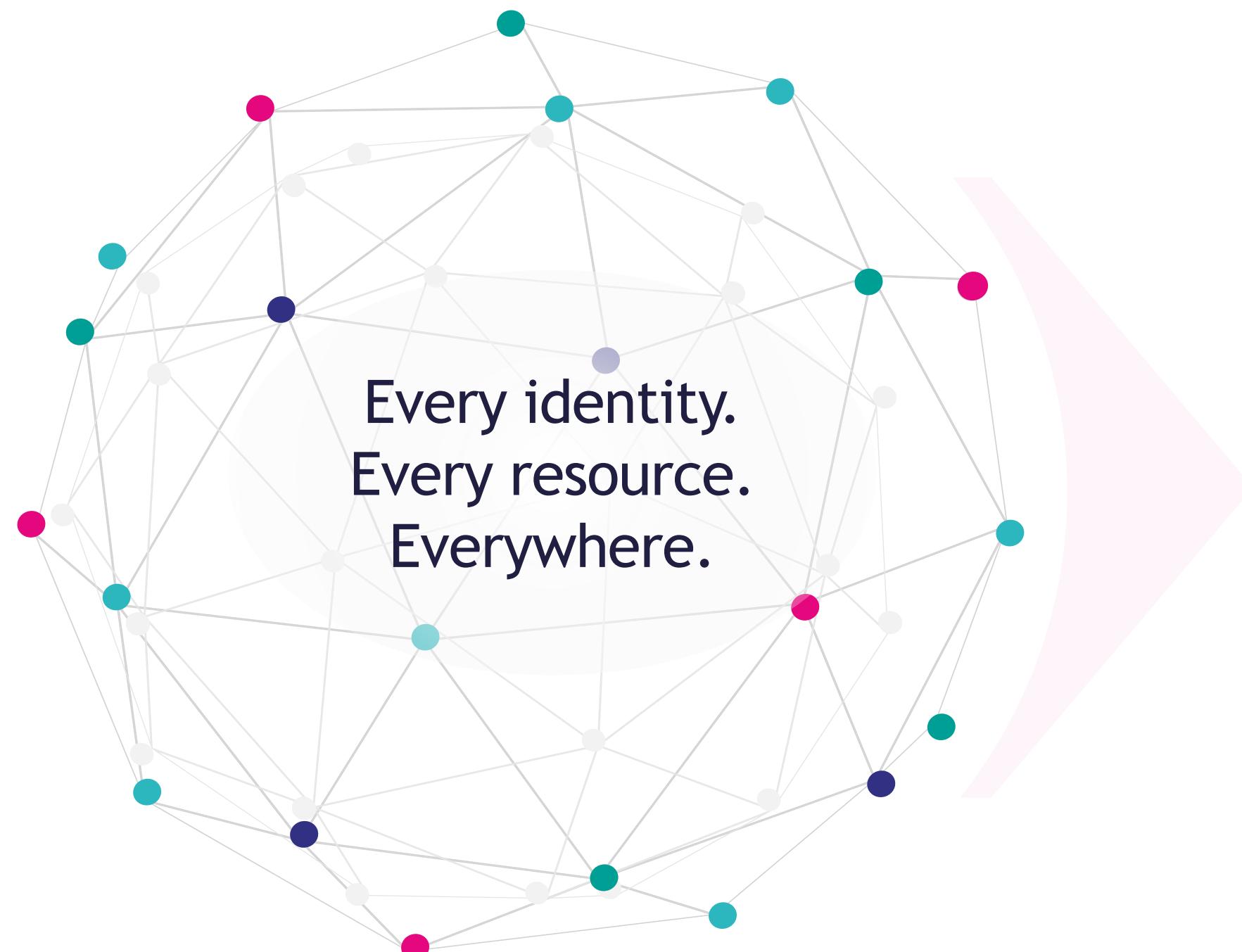


A black and white photograph of four people in an office setting. In the foreground, a man with glasses and a beard is looking down at a tablet device held by another person. Behind them, two more men are looking on. The background is slightly blurred. A large, semi-transparent teal overlay covers the right side of the image. On the right side of this overlay, there is a graphic of a cloud containing various white icons, including a gear, a person, a lock, and a key.

**Secure & govern  
your applications  
with Entra ID**

# Identity has become the perimeter..



Accelerated growth of identities and apps, on and off the corporate network, requiring secure, user-friendly access



Massive rise in identity attacks—more than 4,000 password attacks per second—increasing risk of compromised accounts



Evolving regulations and compliance requirements for protecting identities and auditing access rights

- Guus van Berge
- Amsterdam
- Consultant at InSpark
- 20 years+ experience in IT
- Strong focus on Identity
- Identity Governance connoisseur

“I help organizations embrace proactive security  
with Zero Trust Identity implementations”



“Automatically ensure that the right people have the right access to the right resources at the right time”

### Identity lifecycle

Source of truth

JML

### Access lifecycle

Delegate access

Review access

### Privileged access lifecycle

Entra/Azure roles

Other scenarios

“Automatically ensure that the right people have the right access to the right resources at the right time”

## Identity lifecycle

Source of truth

JML

## Access lifecycle

Delegate access

Review access

## Privileged access lifecycle

Entra/Azure roles

Other scenarios

## What to expect today

App provisioning

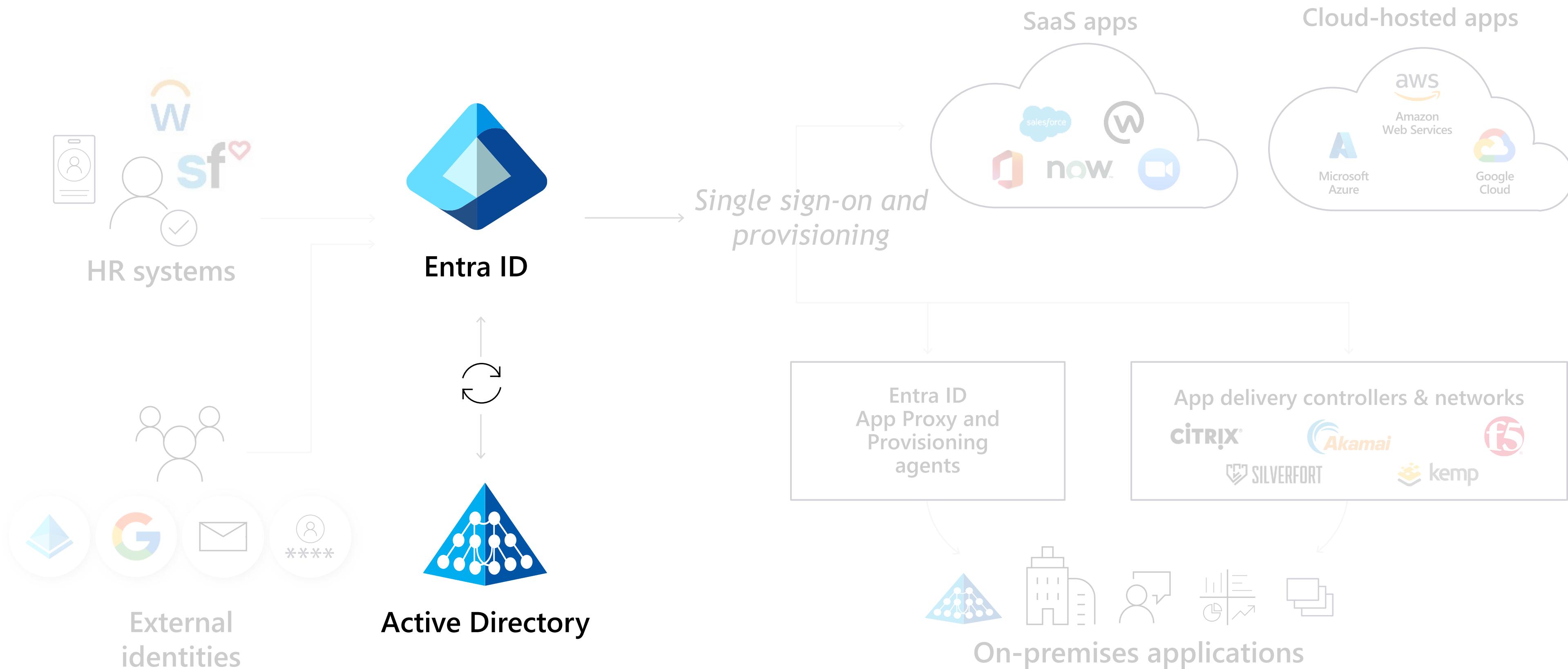
Access Packages

Access reviews

PIM

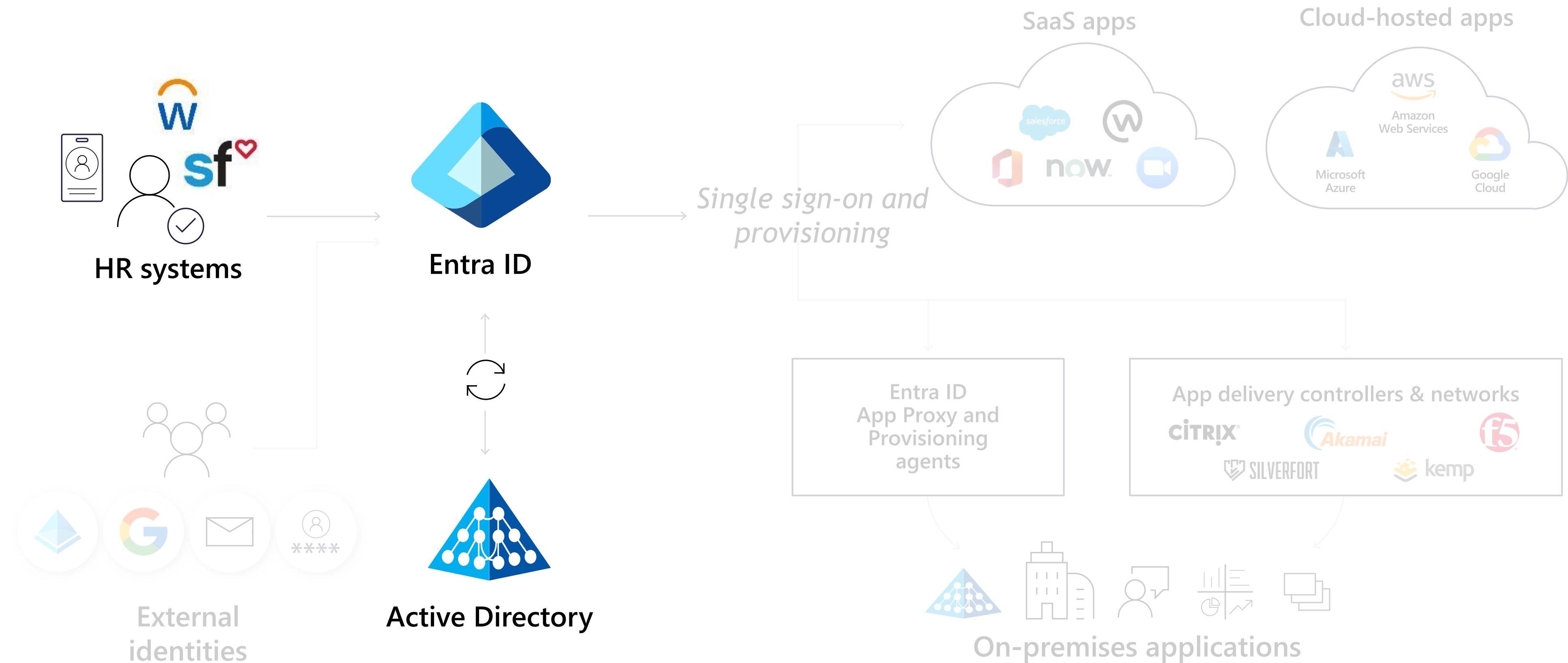
Provisioning

# Provisioning



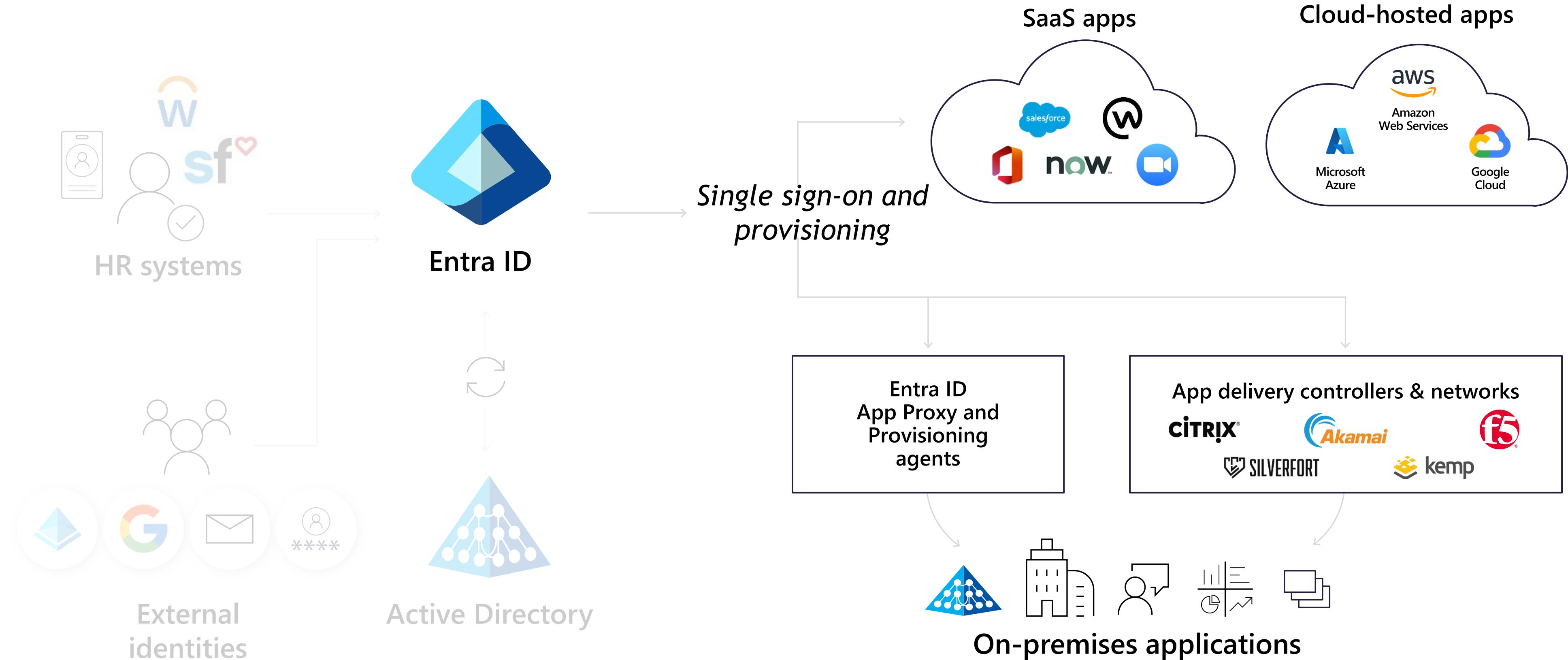
Provisioning

# Inbound provisioning



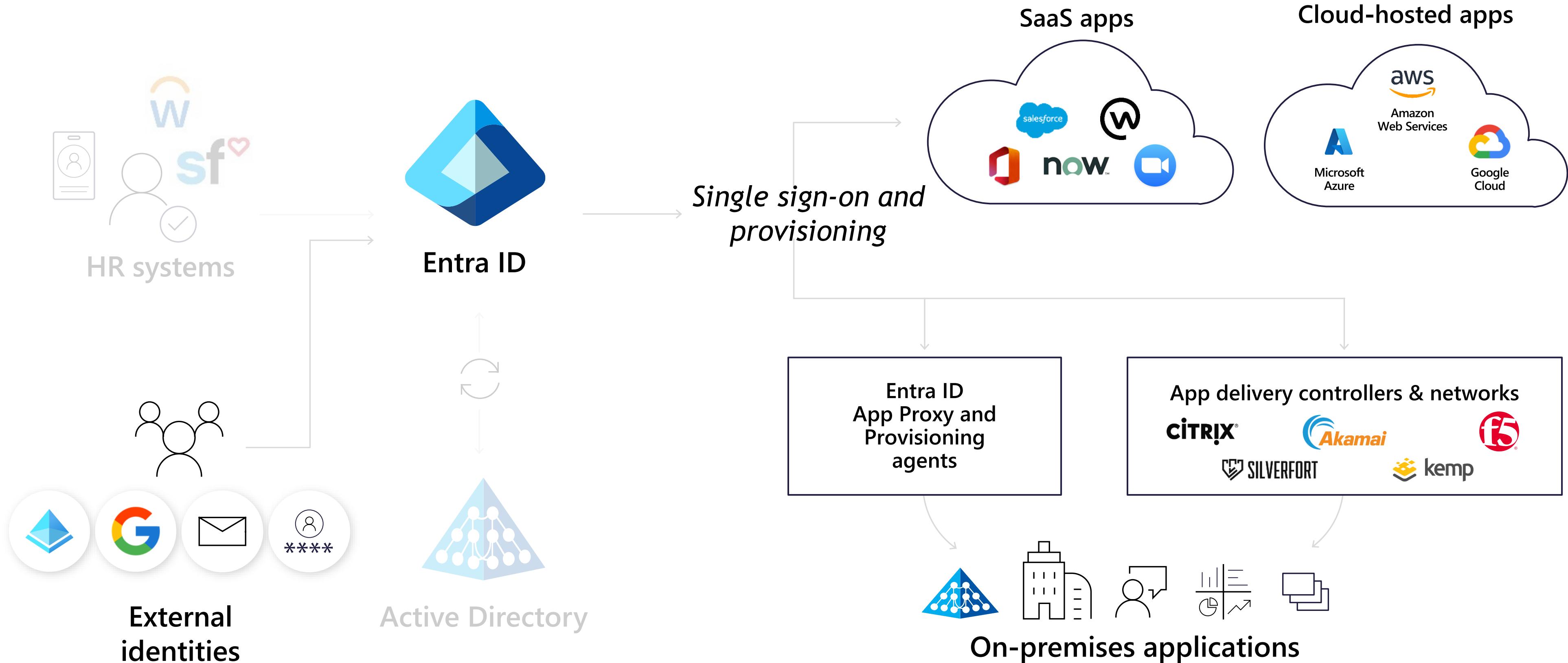
Provisioning

# App provisioning



Provisioning

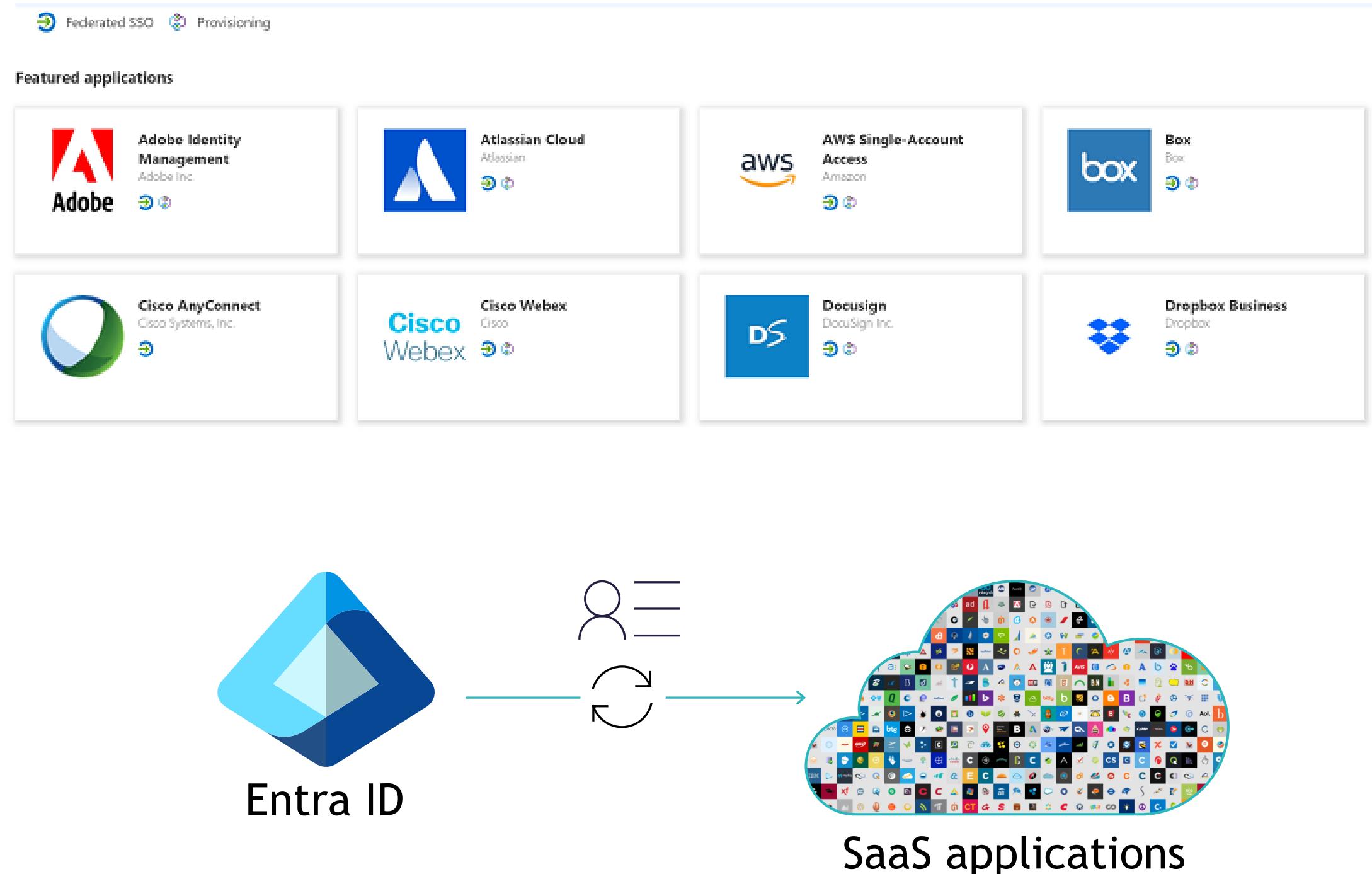
# App provisioning



# What Is SCM

# Provisioning to SaaS Apps

- Selected apps support provisioning of groups.
- Customizable attribute mappings.
- Out of the box tools for monitoring and auditing.
- Custom alerts using Log Analytics.
- Easily implemented in a brown field scenario!



## Browse Microsoft Entra Gallery

+ Create your own application

Got feedback?

The Microsoft Entra App Gallery is a catalog of thousands of apps that make it easy to...  
app from the App Gallery, you leverage prebuilt templates to connect your users more...  
application you have developed into the Microsoft Entra Gallery for other organizations.

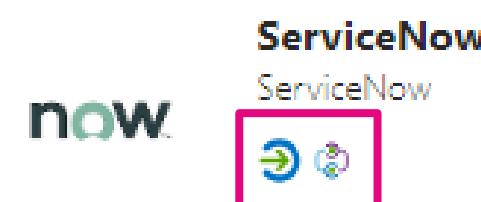
servicenow

Single Sign-on : All

User

Federated SSO Provisioning

Showing 4 of 4 results



## ServiceNow

Got feedback?

Logo

Name \* ⓘ

ServiceNow

Publisher ⓘ

ServiceNow

Provisioning ⓘ

Automatic provisioning supported

Single Sign-On Mode ⓘ

SAML-based Sign-on

Linked Sign-on

URL ⓘ

<http://www.servicenow.com/>

[Read our step-by-step ServiceNow integration tutorial](#)

Create

## ServiceNow - TEST | Provisioning

«  Save  Discard

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 Expression builder

 Monitor

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### Provisioning Mode

Automatic

Use Microsoft Entra to manage the creation and synchronization of user accounts in ServiceNow - TEST based on user and group assignment.

### Admin Credentials

### Mappings

#### Mappings

Mappings allow you to define how data should flow between Microsoft Entra ID and ServiceNow.

Name	Enabled
Provision Azure Active Directory Users	Yes
Provision Azure Active Directory Groups	Yes

Restore default mappings

### Settings

Send an email notification when a failure occurs

Prevent accidental deletion 

Provisioning Status 

 On  Off

## Attribute Mapping

X

Save Discard

## Name

Provision Azure Active Directory Users

## Enabled

 Yes  No

## Source Object

User

## Source Object Scope

All records

## Source Object

sys\_user

## Target Object Actions

- Create
- Update
- Delete

## Attribute Mappings

Attribute mappings define how attributes are synchronized between Microsoft Entra ID and ServiceNow

Microsoft Entra ID Attribute	ServiceNow Attribute	Matching precedence	Remove
userPrincipalName	user_name	1	
Switch([IsSoftDeleted], , "False", "1", "True", "0")	active		
userPrincipalName	email		
givenName	first_name		
surname	last_name		
telephoneNumber	phone		
jobTitle	title		
city	city		
mobile	mobile_phone		
state	state		
streetAddress	street		
postalCode	zip		
<a href="#">Add New Mapping</a>			

Home > Attribute Mapping > Enterprise applications | All applications > ServiceNow - TEST | Provisioning > ServiceNow - TEST | Provisioning > ...

## Edit Attribute

A mapping lets you define how the attributes in one class of Microsoft Entra object (e.g. Users) should flow to and from this application.

Mapping type ⓘ

Source application:

Target application:

Source attribute \* ⓘ

manager

Default value if null (optional) ⓘ

Target attribute \* ⓘ

- company
- cost\_center
- country
- department
- employee\_number
- home\_phone
- location
- locked\_out
- manager
- preferred\_language
- sys\_id

## Edit Attribute

A mapping lets you define how the attributes in one class of Microsoft Entra object (e.g. Users) should flow to and from this application.

### Mapping type i

Direct

### Source attribute \* i

manager

### Default value if null (optional) i

### Target attribute \* i

manager

### Match objects using this attribute

No

### Matching precedence i

0

### Apply this mapping i

Always

postalcode

zip

Delete

Add New Mapping

Home > Attribute Mapping > Enterprise applications | All applications > ServiceNow - TEST | Provisioning > ServiceNow - TEST | Provisioning > ...

## Edit Attribute

A mapping lets you define how the attributes in one class of Microsoft Entra object (e.g. Users) should flow to and from this application.

Mapping type ⓘ

Source attribute: manager

Default value if null (optional)

Target attribute: company

Attributes:

- company
- cost\_center
- country
- department
- employee\_number
- home\_phone
- location
- locked\_out
- manager
- preferred\_language
- sys\_id

## Edit Attribute List ...

Save Discard

### ServiceNow sys\_user Attributes

Name	Type	Primary Key?	Required?	Multi-Value?	Exact case?	API Expression	Referenced Object Att...
sys_id	String	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
active	String	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
email	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
first_name	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
last_name	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
locked_out	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
phone	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
user_name	String	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
title	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
manager	Reference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	sys_user	
city	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
country	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
company	Reference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	core_company	
cost_center	Reference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	cmn_cost_center	
department	Reference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	cmn_department	
employee_number	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
home_phone	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
location	Reference	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	cmn_location	
mobile_phone	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
preferred_language	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
state	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
street	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
zip	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Add New Mapping

## Edit Attribute

...

A mapping lets you define how the attributes in one class of Microsoft Entra object (e.g. Users) should flow to and from this application.

Mapping type [\(i\)](#)

Direct

Source attribute [\\*](#) [\(i\)](#)

preferredLanguage

Default value if null (optional) [\(i\)](#)

Target attribute [\\*](#) [\(i\)](#)

notes

Match objects using this attribute

No

Matching precedence [\(i\)](#)

0

Apply this mapping [\(i\)](#)

Always

streetAddress

street

Delete

postalCode

zip

Delete

Add New Mapping

## Attribute Mapping

X

Save Discard

## Name

Provision Azure Active Directory Users

## Enabled

 Yes  No

## Source Object

User

## Source Object Scope

All records

## Source Object

sys\_user

## Target Object Actions

- Create
- Update
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givenName	first_name		
surname	last_name		
telephoneNumber	phone		
jobTitle	title		
city	city		
mobile	mobile_phone		
state	state		
streetAddress	street		
postalCode	zip		
<a href="#">Add New Mapping</a>			

## ServiceNow - TEST | Provisioning

«  Save  Discard

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 Provisioning

 Users and groups

 Expression builder

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 Provisioning logs

 Audit logs

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Troubleshoot

 New support request

### Provisioning Mode

Automatic

Use Microsoft Entra to manage the creation and synchronization of user accounts in ServiceNow - TEST based on user and group assignment.

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#### Mappings

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Name	Enabled
Provision Azure Active Directory Users	Yes
Provision Azure Active Directory Groups	Yes

Restore default mappings

### Settings

Send an email notification when a failure occurs

Prevent accidental deletion ⓘ

### Provisioning Status ⓘ

On  Off

## ServiceNow - TEST | Users and groups

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New support request

« Add user/group | Edit assignment | Remove | Update credentials | Columns | Got feedback?

The application will appear for assigned users within My Apps. Set 'visible to users?' to no in properties to prevent this. →

Assign users and groups to app-roles for your application here. To create new app-roles for this application, use the [application registration](#).

First 200 shown, to search all users & gro...

	Display Name	Object Type	Role assigned
<input type="checkbox"/>	AG Ari Gold	User	User
<input type="checkbox"/>	EM Eric Murphy	User	User
<input type="checkbox"/>	S ServiceNow-SuperUser	Group	User
<input type="checkbox"/>	VC Vincent Chase	User	User

## ServiceNow - TEST | Provision on demand

«

[Learn More](#)

[Got feedback?](#)

[Overview](#)

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[Users and groups](#)

[Expression builder](#)

**Monitor**

[Provisioning logs](#)

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[Insights](#)

**Troubleshoot**

[New support request](#)

Provision on-demand for a subset of users or groups before rolling it out broadly to your organization. When provisioning a group you can select 5 members at a time.

**i** No user or group will be provisioned on-demand that would not have been provisioned through the regular provisioning cycles.

Selected user

 Ari Gold



# ServiceNow - TEST | Provision on demand

...

&lt;



Learn More



Technical details



Got feedback?



Overview

## Provisioning Logs

[Download](#) [Learn more](#) [Refresh](#) [Columns](#) [Got feedback?](#)

1/26/2024, 7:11:05 PM	Source ID 1db5c7ca-b2f4-4632-8ae2-1d0be4fc	Create
1/26/2024, 5:36:44 PM	Source ID 59cbe194-eb07-4df2-8d27-64850d6 Target ID cd7073dc87804610b12942a9cebb351	Create
1/26/2024, 5:33:20 PM	Source ID 9d4125de-5991-46d7-aec2-1894134 Target ID 454b2f57873fb910b230113e3fbb35c	Update
1/26/2024, 5:33:20 PM	Source ID e1e87142-bdfe-4b51-886e-729f124 Target ID ba546f1787f73910b12942a9cebb352	Other
1/26/2024, 5:33:20 PM	Source ID 59cbe194-eb07-4df2-8d27-64850d6 Target ID 47221c6787bb3910b12942a9cebb35	Other
1/26/2024, 5:33:20 PM	Source ID 4a4ae9f8-5a8b-4856-aa5b-3b0138ff Target ID 401aa6848704c210b12942a9cebb35(	Other
1/26/2024, 5:32:57 PM	Source ID 59cbe194-eb07-4df2-8d27-64850d6 Target ID 47221c6787bb3910b12942a9cebb35	Other
1/26/2024, 5:11:04 PM	Source ID 9d4125de-5991-46d7-aec2-1894134 Target ID 454b2f57873fb910b230113e3fbb35c	Other
1/26/2024, 5:11:03 PM	Source ID e1e87142-bdfe-4b51-886e-729f124 Target ID ba546f1787f73910b12942a9cebb352	Other
1/26/2024, 5:11:03 PM	Source ID 59cbe194-eb07-4df2-8d27-64850d6 Target ID 47221c6787bb3910b12942a9cebb35	Other
1/26/2024, 5:11:03 PM	Source ID 4a4ae9f8-5a8b-4856-aa5b-3b0138ff Target ID 401aa6848704c210b12942a9cebb35(	Other
1/25/2024, 7:32:39 PM	Source ID f05160b4-1375-4470-b756-1eeaab9	Create
1/25/2024, 7:10:43 PM	Source ID d06db5b3-4fae-4559-9814-ee85e44	Delete
1/25/2024, 6:52:39 PM	Source ID d9d62e0b-2f74-4a12-b8e6-496c3ec	Update
1/25/2024, 6:12:38 PM	Source ID 5638ebd5-c623-4f69-bfec-4c039617	Create
1/25/2024, 5:50:42 PM	Source ID 4a4ae9f8-5a8b-4856-aa5b-3b0138ff Target ID 401aa6848704c210b12942a9cebb35(	Create

## Provisioning log details

[Steps](#) [Troubleshooting & Recommendations](#) [Modified Properties](#) [Summary](#)

- ▽ 1. Import sys\_user from Microsoft Entra ID ✓
- ▽ 2. Determine if sys\_user is in scope ✓
- ▽ 3. Match sys\_user between Microsoft Entra ID and ServiceNow ✓
- ^ 4. Provision sys\_user in ServiceNow ✓

### EntryExportAdd

Result	Success
Description	User 'arigold@' was created in ServiceNow
Active	1
Email	arigold@
First_name	Ari
Last_name	Gold
User_name	arigold@
Title	Marketing Lead
City	
Street	
Zip	
ReportableIdentifier	arigold@

### 4. Perform action

This step shows the action that was performed in the target application, such as creating a user or updating a user.

Success | [View details](#)

Test Environment

Filter navigator

User Administration

Role Attributes

Users

Groups

Roles

Logged in users

Active Transactions

All Active Transactions

Departments

Locations

Companies

Location Map

Countries

Users New Search Name Search

All > Name contains ari > User ID starts with arigold

	User ID	Name	Email	Active	Created	Updated
<input type="checkbox"/>	<a href="#">arigold@</a>	Ari Gold	arigold@	true	2024-01-26 16:36:44	2024-01-26 16:36:44
<input type="checkbox"/>	Actions on selected rows...					

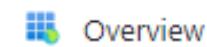


## ServiceNow - TEST | Users and groups

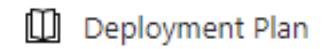
Enterprise Application



« [Add user/group](#) | [Edit assignment](#) | [Remove](#) | [Update credentials](#) | [Columns](#) | [Got feedback?](#)

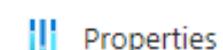


Overview



Diagnose and solve problems

### Manage



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Users and groups

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Provisioning

Self-service

Custom security attributes

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Conditional Access

Permissions

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### Activity

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Usage & insights

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### Troubleshooting + Support

New support request

The application will appear for assigned users within My Apps. Set 'visible to users?' to no in properties to prevent this. →

Assign users and groups to app-roles for your application here. To create new app-roles for this application, use the [application registration](#).

First 200 shown, to search all users & gro...

	Display Name	Object Type	Role assigned
<input type="checkbox"/>	AG Ari Gold	User	User
<input type="checkbox"/>	EM Eric Murphy	User	User
<input type="checkbox"/>	S ServiceNow-SuperUser	Group	User
<input type="checkbox"/>	TM Terrance McQuewick	User	User
<input type="checkbox"/>	VC Vincent Chase	User	User

The screenshot shows the ServiceNow ITSS Home Page interface. The top navigation bar includes 'Test Environment', 'ITSS Home Page', 'EA Entra Test Service Account', and various system icons. The left sidebar contains a 'Filter navigator' and a list of modules: Targeted Communications, Task Relationships, Team Development, Upgrade Center, User Administration, Role Attributes, Users, Groups, Roles, Logged in users, Active Transactions, All Active Transactions, Departments, Locations, Companies, Location Map, Countries, Normalization Data Services, Role Delegation, Developer Preferences, User Preferences, User Presence, Delegates, User Roles, Group Roles, Workflow, and Workspace Experience. The main content area is titled 'Group' and shows details for 'ServiceNow-SuperUser'. It includes sections for 'Active' status (checked), 'PagerDuty escalation' (highlighted with a blue border), 'Group Dependency' (with a rich text editor), 'Group capacity (points)' (0), 'Product Area' (with a search icon), 'Team Location' (empty), 'FindIT ID' (empty), and 'Jira Project for Escalation' (empty). Below this is a 'PagerDuty' section with fields for 'PagerDuty escalation', 'PagerDuty webhook', 'PagerDuty service', 'PagerDuty schedule', 'PagerDuty team', and a checkbox for 'Sync Group Members with PagerDuty'. At the bottom are 'Update', 'Save', 'Check Dependency', and 'Delete' buttons. The footer features a navigation bar with tabs: Roles, Group members (highlighted with a pink border), Groups, Group member history (2), Service Desk Locations, Change Requests, Change Tasks, Incidents, Incident Tasks, Catalog Tasks, Group approvals, and Requested Items. The 'Group members' tab is also highlighted with a pink border. The footer also includes a 'Group' filter, a 'User' search bar, and an 'Active' status indicator. A message 'No records to display' is shown at the bottom of the footer panel.

## ServiceNow-SuperUser | Privileged Identity Management

Group

[Add assignments](#) [Settings](#) [Refresh](#) [Export](#) [Got feedback?](#)

[Overview](#)

[Diagnose and solve problems](#)

**Manage**

[Properties](#)

[Members](#)

[Owners](#)

[Roles and administrators](#)

[Administrative units](#)

[Group memberships](#)

[Applications](#)

[Licenses](#)

[Azure role assignments](#)

**Activity**

[Privileged Identity Management](#) (selected)

[Access reviews](#)

[Audit logs](#)

[Bulk operation results](#)

**Troubleshooting + Support**

[New support request](#)

**Eligible assignments** [Active assignments](#) [Expired assignments](#)

Search by member name or principal name

Name	Principal name	Type	Membership	Start time	End time	Action
Vincent Chase	vincentchase@	User	Direct	1/23/2024, 2:18:08 PM	1/22/2025, 2:17:46 PM	<a href="#">Remove</a>   <a href="#">Update</a>   <a href="#">Extend</a>

Showing 1 - 1 of 1 results.

## Role setting details - Member

X

Privileged Identity Management | Groups

 Edit

### Activation

Setting	State
Activation maximum duration (hours)	8 hour(s)
On activation, require	None
Require justification on activation	Yes
Require ticket information on activation	No
Require approval to activate	No
Approvers	None

### Assignment

Setting	State
Allow permanent eligible assignment	No
Expire eligible assignments after	1 year(s)
Allow permanent active assignment	No
Expire active assignments after	6 month(s)
Require Azure Multi-Factor Authentication on active assignment	No
Require justification on active assignment	Yes

### Send notifications when members are assigned as eligible to this role:

Type	Default recipients	Additional recipients	Critical emails only
Role assignment alert	-	None	False
Notification to the assigned user (assignee)	-	None	False
Request to approve a role assignment renewal/extens...	-	None	False

### Send notifications when members are assigned as active to this role:

Type	Default recipients	Additional recipients	Critical emails only
Role assignment alert	-	None	False
Notification to the assigned user (assignee)	-	None	False
Request to approve a role assignment renewal/extens...	-	None	False

## ServiceNow-SuperUser | Privileged Identity Management

X



Group

«

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i Overview

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Administrative units

Group memberships

Applications

Licenses

Azure role assignments

Activity

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Audit logs

Bulk operation results

Troubleshooting + Support

New support request

Eligible assignments    Active assignments    Expired assignments

Search by member name or principal name

Name	Principal name	Type	Membership	Start time	End time	Action
Member						
Vincent Chase	vincentchase@	User	Direct	1/23/2024, 2:18:08 PM	1/22/2025, 2:17:46 PM	Remove   Update   Extend

Showing 1 - 1 of 1 results.

Home > Identity Governance | Groups > Privileged Identity Management | My roles > My roles

## My roles | Groups

Privileged Identity Management | My roles

Activate

- Microsoft Entra roles
- Groups**
- Azure resources

Troubleshooting + Support

- Troubleshoot
- New support request

Refresh | Got feedback?

Eligible assignments   Active assignments   Expired assignments

Search by role or group

Role	Group	Group type	Membership
Member	ServiceNow-SuperUser	Security	Direct

**Activate - Member**

Privileged Identity Management | Groups

Roles   **Activate**   Status

Custom activation start time

Duration (hours)

Reason (max 500 characters) \*

I want to do super cool changes with my super user role!

**Activate**   Cancel

## Provisioning Logs

Download *Learn more* Refresh Columns Got feed

Date	Identity	Action
2/1/2024, 1:02:34 AM	Source ID 9d4125de-5991-46d7-aec; Target ID 454b2f57873fb910b230113	Other
2/1/2024, 1:02:34 AM	Source ID 1db5c7ca-b2f4-4632-8ae2	Create
2/1/2024, 1:02:34 AM	Source ID 185d447a-383b-4386-83d	Create
2/1/2024, 1:02:34 AM	Source ID 7b7417af-c55f-44be-9a55; Target ID 4d484d4687488e50b23011	Create
2/1/2024, 12:56:21 AM	Source ID 9d4125de-5991-46d7-aec; Target ID 454b2f57873fb910b230113	Update
2/1/2024, 12:56:20 AM	Source ID 9d4125de-5991-46d7-aec; Target ID 454b2f57873fb910b230113	Other
2/1/2024, 12:56:20 AM	Source ID e1e87142-bdfe-4b51-886e Target ID ba546f1787f73910b12942a	Other
2/1/2024, 12:56:19 AM	Source ID 9d4125de-5991-46d7-aec; Target ID 454b2f57873fb910b230113	Other
1/31/2024, 5:02:13 PM	Source ID 9d4125de-5991-46d7-aec; Target ID 454b2f57873fb910b230113	Other
1/31/2024, 5:02:13 PM	Source ID 1db5c7ca-b2f4-4632-8ae2	Create

## Provisioning log details

Steps Troubleshooting & Recommendations Modified Properties Summary

1. Import sys\_user\_group from Microsoft Entra ID ✓

2. Match sys\_user\_group between Microsoft Entra ID and ServiceNow ✓

3. Determine if sys\_user\_group is in scope ✓

4. Provision sys\_user\_group in ServiceNow ✓

### EntryExportUpdate

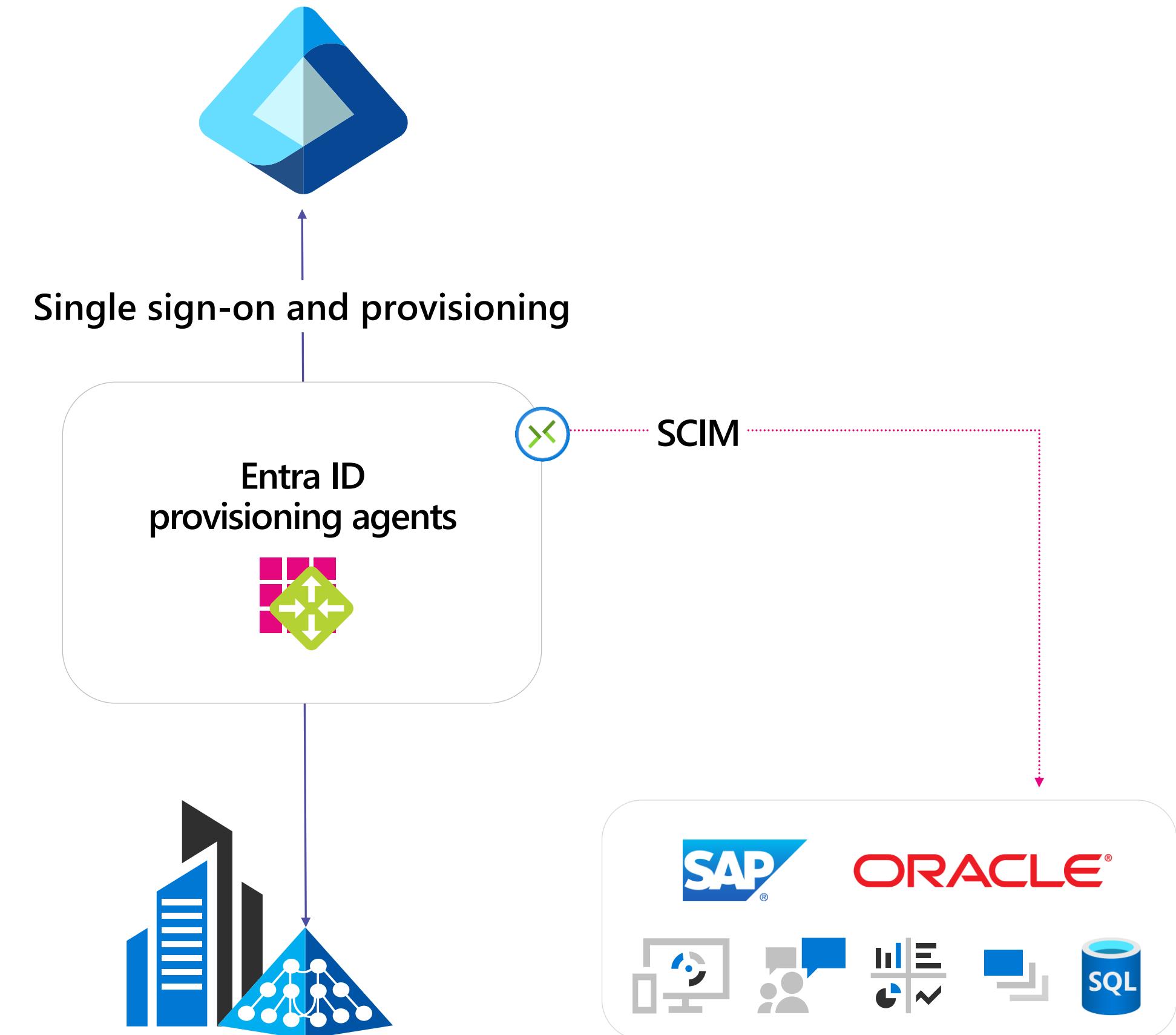
Result	Success
Description	Group 'ServiceNow-SuperUser' was updated in ServiceNow
ReportableIdentifier	ServiceNow-SuperUser



Provisioning

# On-premises Apps

The Entra provisioning service supports SCIM enabled apps to provision users into applications hosted on-premises or in a virtual machine.



Provisioning

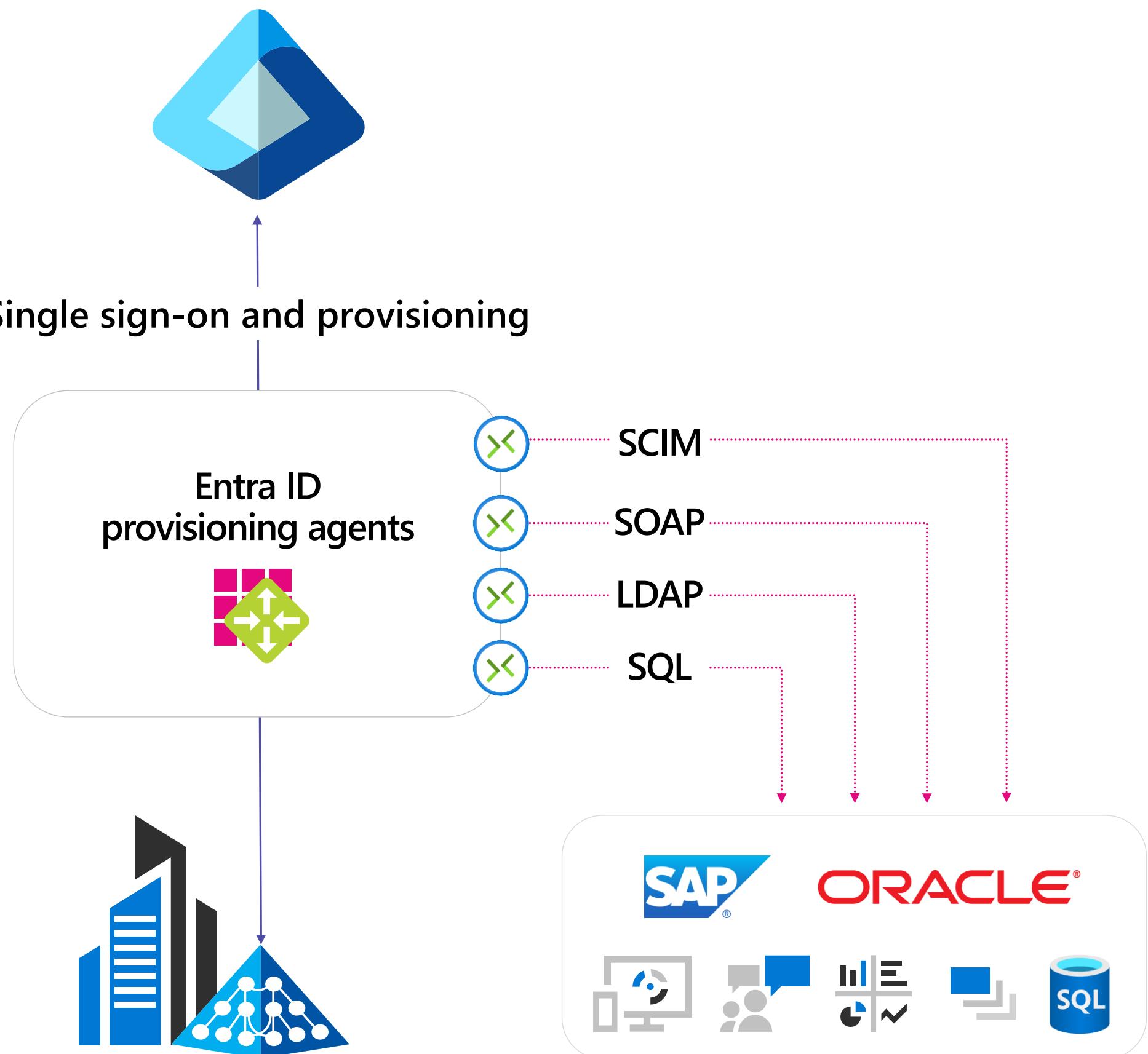
# Legacy Apps

The **ECMA Connector** host converts provisioning requests from Entra ID to requests into legacy applications.

Microsoft-delivered connectors:

- **LDAP**
- **SQL** (MS SQL, Azure SQL, IBM DB2 9/10, Oracle 10g/11g/12c/18c, MsQL 5/8, Postgres)
- **Web** (REST/SOAP)
- **PowerShell** (Flat-file)

Re-use your existing MIM configuration!



## Browse Microsoft Entra Gallery

[Create your own application](#) | [Got feedback?](#)

The Microsoft Entra App Gallery is a catalog of thousands of apps that make it easy to deploy and configure single sign-on (SSO) and automated to connect your users more securely to their apps. Browse or create your own application here. If you are wanting to publish an application you can file a request using the process described in [this article](#).

 X

Single Sign-on : All

User Account Management : All

Categories : All

[Federated SSO](#) [Provisioning](#)**Showing 10 of 10 results**

**CMA**  
William Raveis

**On-premises ECMA app**  
Microsoft  


**tesma**  
CHG-MEI  


**MCM**  
ABa Quality Monitoring Ltd.  


**Encompass**  
Vox Mobile, Inc.  


**Cleanm**  
Alinto  

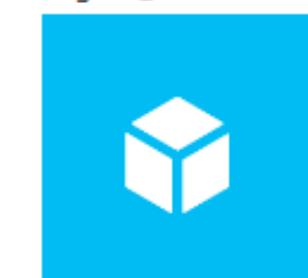

**Clarity**  
CA  


**TeamsChamp**  
ENCAMINA  


## On-premises ECMA app

[Got feedback?](#)Logo 

Name *	<input type="text" value="On-premises ECMA app"/>
Publisher 	Microsoft
Provisioning 	Automatic provisioning supported
Single Sign-On Mode 	<input type="checkbox"/>
URL 	<a href="https://www.microsoft.com">https://www.microsoft.com</a>
Linked Sign-on	<input type="checkbox"/>



 Name \* 

 On-premises ECMA app

 Publisher 

 Microsoft

 Provisioning 

 Automatic provisioning supported

 Single Sign-On Mode 



 URL 

 <https://www.microsoft.com>

 Linked Sign-on

## OnPremises App (ECMA) - SQL | Provisioning

«



Save



Discard

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### Provisioning Mode

Automatic

Use Microsoft Entra to manage the creation and synchronization of user accounts in OnPremises App (ECMA) - SQL based on user and group assignment.

### On-Premises Connectivity

#### On-Premises Connectivity

Step 1: Download and install the on-premises provisioning wizard and the provisioning agent.

Step 2: Assign agents and agent groups to your application.

Agent(s)

**Assign Agent(s)**

Step 3: Restart the provisioning agent service or wait 10 minutes before testing connection.

### Admin Credentials

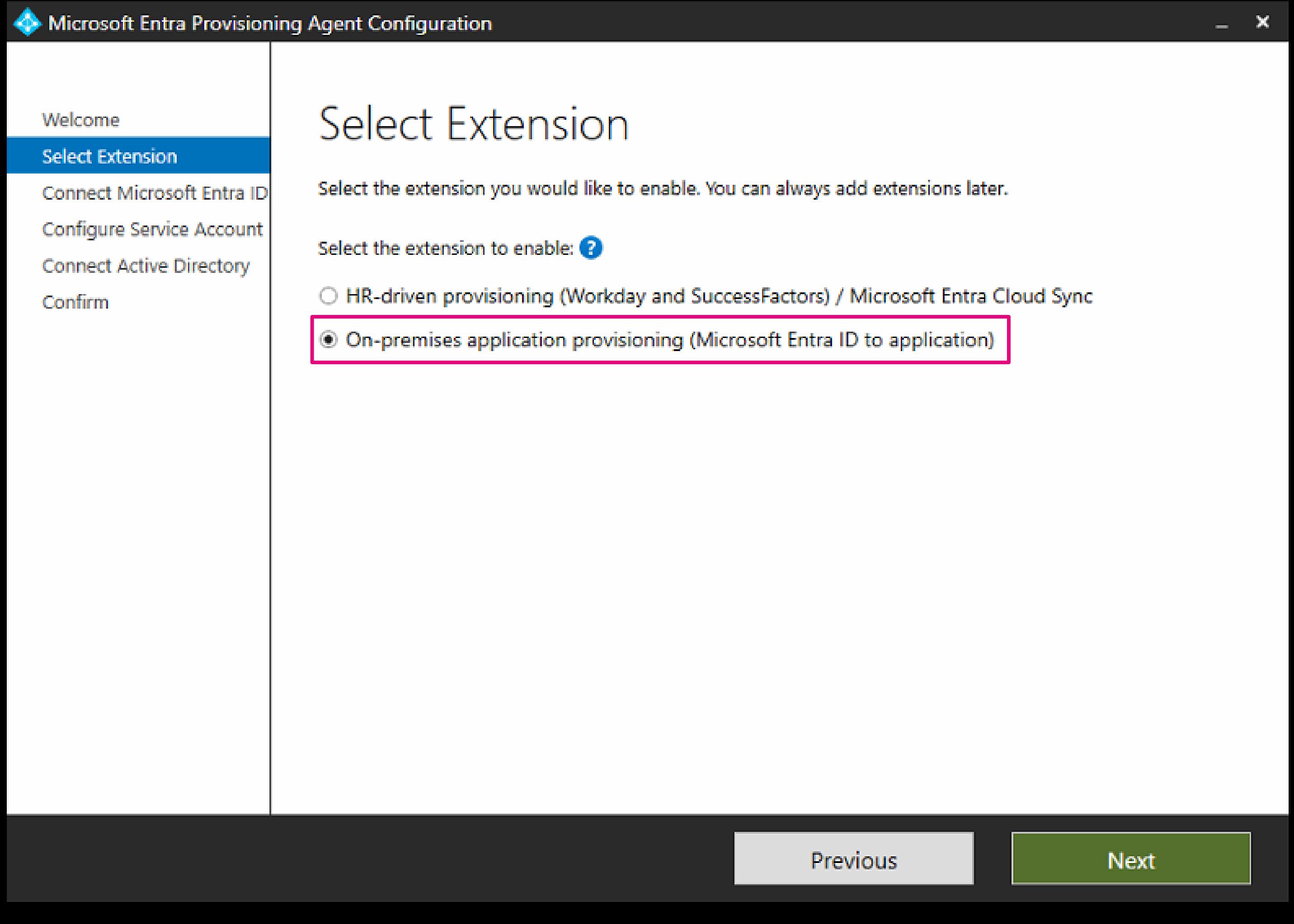
### Mappings

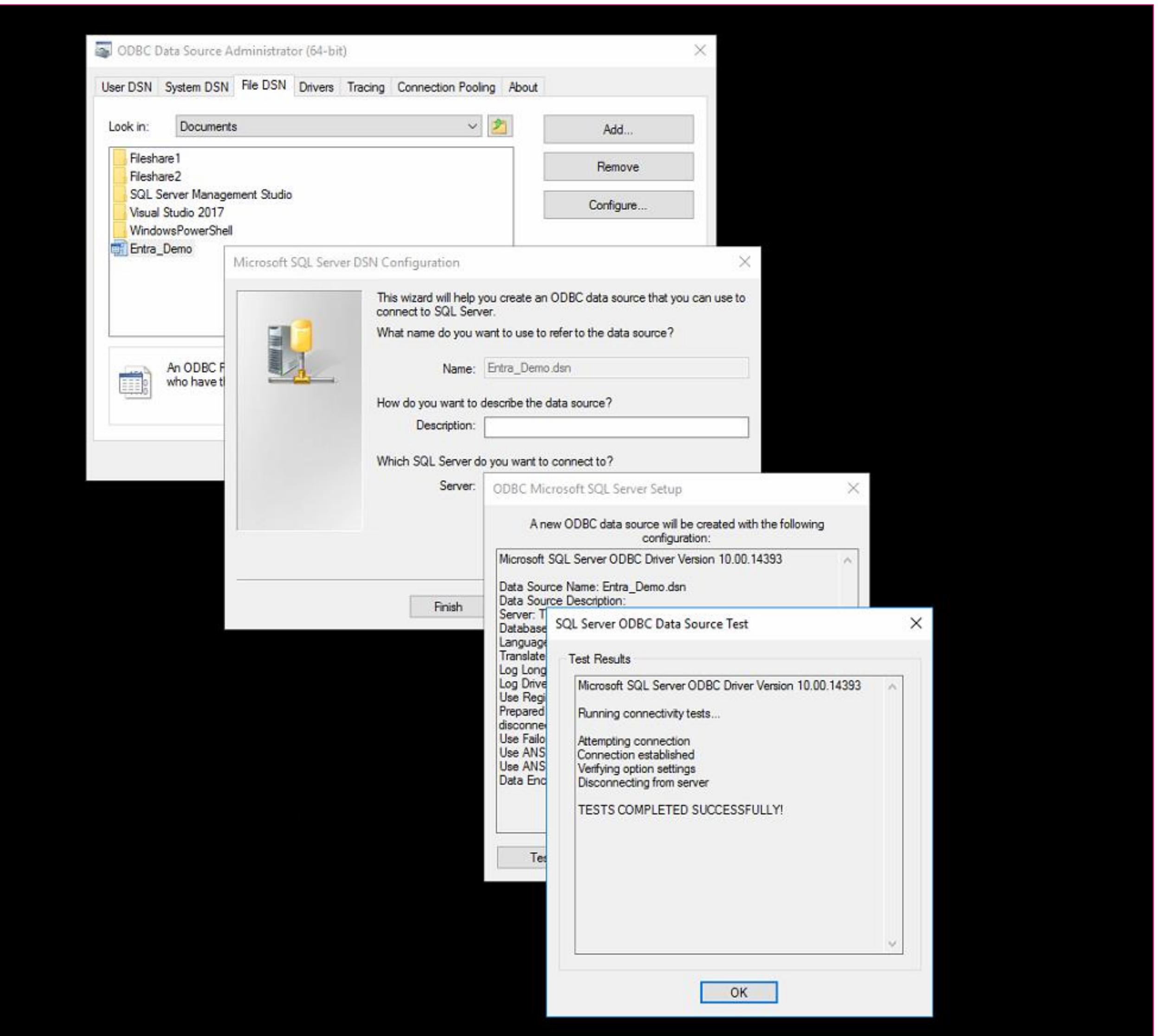
### Settings

Provisioning Status

On

Off





## Microsoft ECMA Connector Host Configuration

+ New Connector

→ Export → Import  Settings  Help

NAME	TYPE	DESCRIPTION	 Edit	 Export	 Delete
CSV	PowerShell				

Microsoft ECMA Connector Host Configuration

Home Settings Help

**Properties**

Partitions  
Run Profiles  
Object Types  
Select Attributes  
Deprovisioning

**Properties**

Name \* ⓘ SQL-App1

Creation time vrijdag 26 januari 2024 19:35:55

Last modified vrijdag 26 januari 2024 19:35:55

Autosync timer (minutes) \* ⓘ 120

Secret token \* ⓘ \*\*\*\*\*

Description

Import connector

**Select Extension DLL**

This field is mandatory

Extension DLL \*

Microsoft.IAM.Connector.GenericLdap.dll  
Microsoft.IAM.Connector.GenericSql.dll  
Microsoft.IAM.Connector.PowerShell.dll  
Microsoft.IdentityManagement.MA.LotusDomino.dll  
Microsoft.IdentityManagement.MA.WebServices.dll

Previous Next Cancel

Microsoft ECMA Connector Host Configuration

Microsoft ECMA Connector Host Configuration

Home Properties

Connectivity

Schema 1

Schema 2

Schema 3

Schema 4

Global

Partitions

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Export

FullImport

Object Types

Select Attributes

Deprovisioning

Settings Help

## Connectivity

To create a connector for ODBC connected SQL database, provide the DSN file and its credentials to connect to the database.

Connect to database:

DSN File: Content is present

User Name: TEST\

Password: \*\*\*\*\*

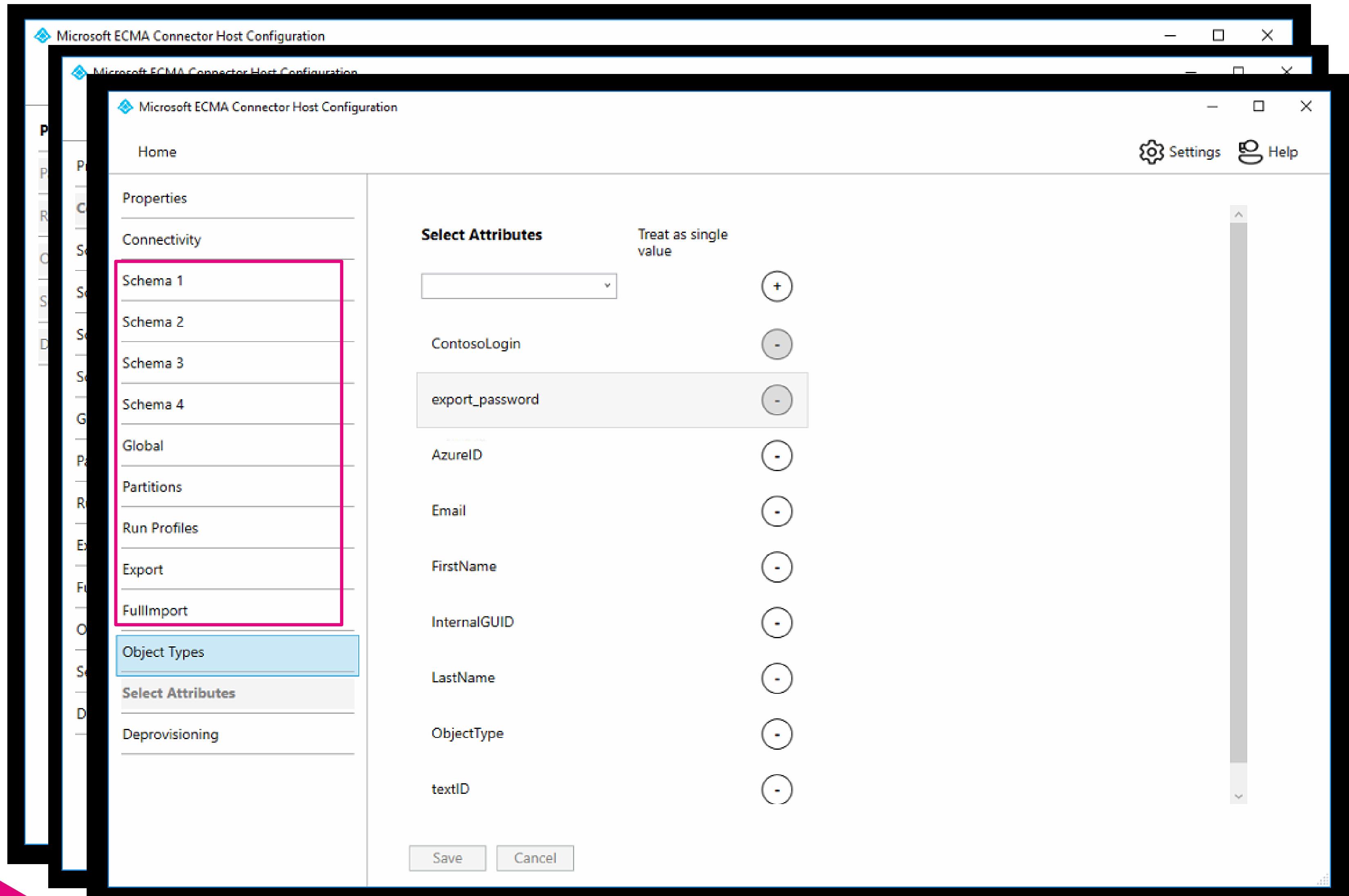
DN is Anchor

Export Type:Object Replace

Command Timeout (Seconds): 30

Save Cancel

The image shows two windows of the Microsoft ECMA Connector Host Configuration application. The top window is the main configuration interface with various tabs on the left: Home, Properties, Connectivity, Schema 1, Schema 2, Schema 3, Schema 4, Global, Partitions, Run Profiles, Export, FullImport, Object Types, Select Attributes, and Deprovisioning. The 'Connectivity' tab is selected. The bottom window is a modal dialog titled 'Connect to database:' with fields for 'DSN File' (containing 'Content is present' with 'Browse' and 'Clear' buttons), 'User Name' (containing 'TEST\'), 'Password' (containing '\*\*\*\*\*'), and checkboxes for 'DN is Anchor' and 'Export Type:Object Replace'. Both windows have a pink border around the central content area.



Home

Settings

Properties

Connectivity

**Schema 1**

Partitions

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Object Types

Select Attributes

Deprovisioning

**Schema Detection Step-1: Object Type Detection**

Object type detection method

Fixed Value

Fixed value list/Table/View/SP

User

Column Name for Table/View/SP

Provide required stored procedure parameters in the format [name]:[direction]:[value]. Enter each parameter on separate lines (use Ctrl + Enter to get a new line).

Store Procedure Parameters

Provide SQL query for detecting object types

Previous

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Cancel

[Properties](#)[Connectivity](#)[Schema 1](#)[Schema 2](#)[Partitions](#)[Run Profiles](#)[Object Types](#)[Select Attributes](#)[Deprovisioning](#)

### Schema Detection Step-2: Attribute Type Detection

Found object types:User

User:Attribute Detection

Table

User:Table/View/SP

Employees

User:Name of Multi-valued Table/Views

Provide required stored procedure parameters in the format [name]:[direction]:[value]. Enter each parameter on separate lines (use Ctrl + Enter to get a new line).

User:Store Procedure Parameters

User:Provide SQL query for detecting attributes

[Previous](#)[Next](#)[Cancel](#)

 Microsoft ECMA Connector Host Configuration

 Microsoft ECMA Connector Host Configuration

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Schema 2  
**Schema 3**  
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Object Types  
Select Attributes  
Deprovisioning

Schema Detection Step-3: Define Anchor and DN

Select Anchor for :User

User:ContosoLogin  
 User:FirstName  
 User:LastName  
 User:Email  
 User:InternalGUID  
 User:AzureID  
 User:textID

Select DN attribute for User

Previous Next Cancel

Save Cancel



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Schema 2

Schema 3

**Schema 4**

Partitions

Run Profiles

Object Types

Select Attributes

Deprovisioning

## Schema Detection Step-4: Set attributes data type and direction

## Reference Attribute Selection for User

User:FirstName DataType

String

User:FirstName Direction

ImportExport

User:LastName DataType

String

User:LastName Direction

ImportExport

User:Email DataType

String

User:Email Direction

ImportExport

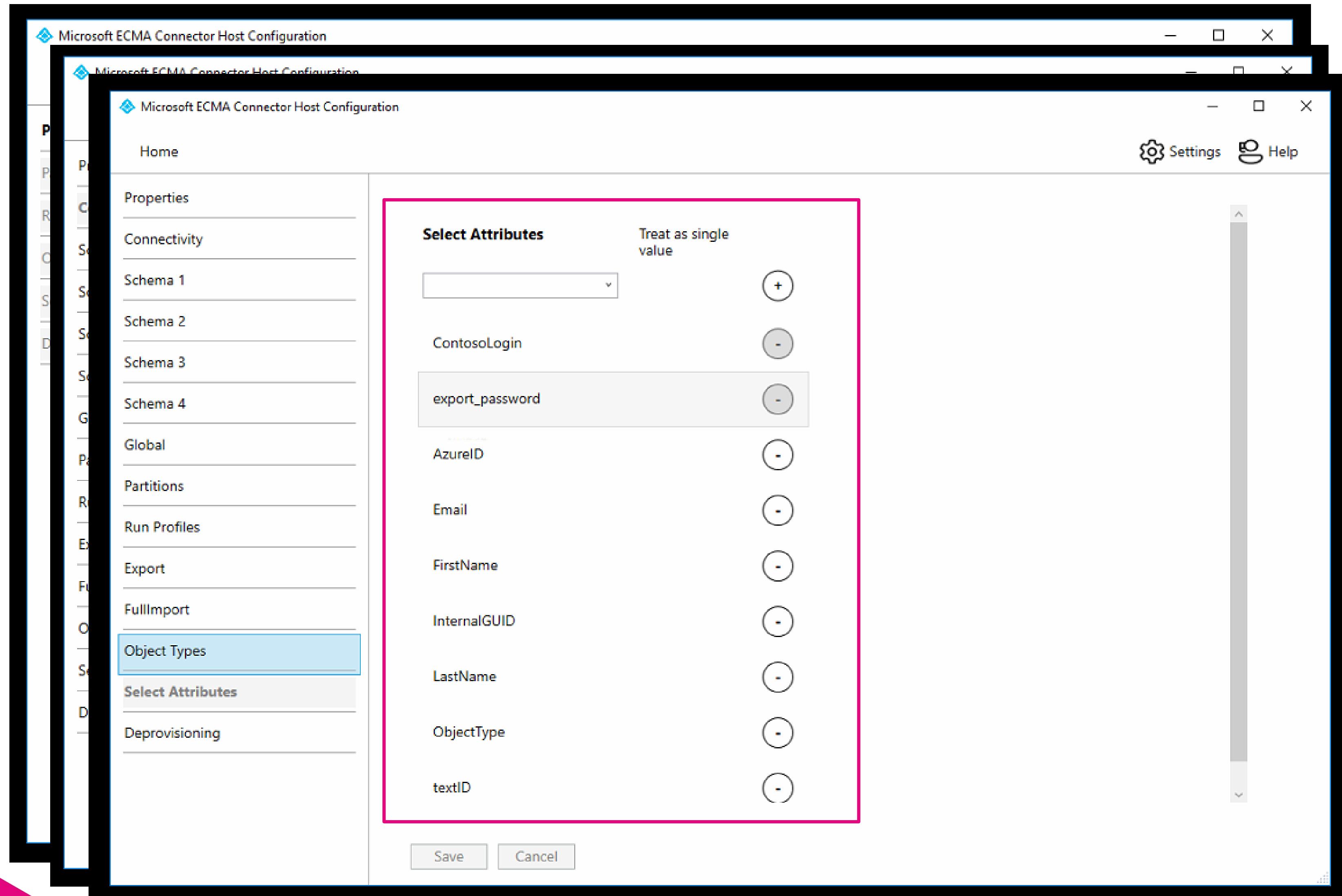
User:InternalGUID DataType

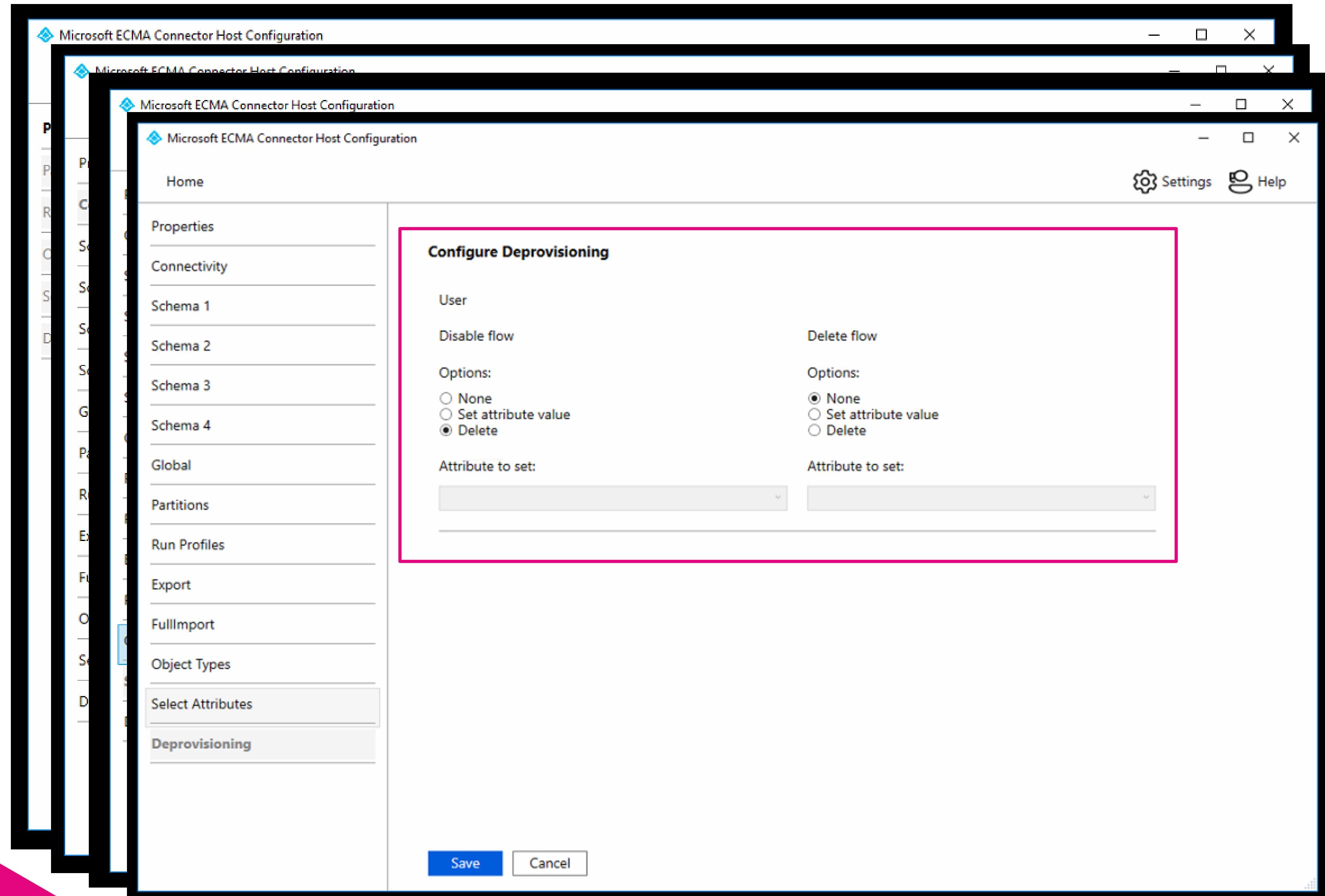
String

User:InternalGUID Direction

ImportExport

[Previous](#)[Next](#)[Cancel](#)





## OnPremises App (ECMA) - SQL | Provisioning

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### Provisioning Mode

Automatic

Use Microsoft Entra to manage the creation and synchronization of user accounts in OnPremises App (ECMA) - SQL based on user and group assignment.

### On-Premises Connectivity

#### Admin Credentials

##### Admin Credentials

Microsoft Entra needs the following information to connect to OnPremises App (ECMA) - SQL's API and synchronize user data.

Tenant URL \* 

Secret Token

### Mappings

#### Mappings

Mappings allow you to define how data should flow between Microsoft Entra ID and ScimOnPremises.

Name	Enabled
Provision Azure Active Directory Users	Yes

Restore default mappings

### Settings

Provisioning Status 

## OnPremises App (ECMA) - SQL | Provisioning

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Provisioning Mode

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On-Premises Connectivity

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Microsoft Entra needs the following information to connect to OnPremises App (ECMA) - SQL's API and synchronize user data.

Tenant URL \* 

Secret Token

\*

Mappings

Mappings

Mappings allow you to define how data should flow between Microsoft Entra ID and ScimOnPremises.

Name	Enabled
------	---------

<a href="#">Provision Azure Active Directory Users</a>	Yes
--	-----

Restore default mappings

Settings

Provisioning Status 

 On  Off

## Attribute Mapping

 Save  Discard

### Name

Provision Azure Active Directory Users

### Enabled

Yes  No

### Source Object

User

### Source Object Scope

All records

### Source Object

urn:ietf:params:scim:schemas:extension:enterprise:2.0:User

### Target Object Actions

- Create
- Update
- Delete

### Attribute Mappings

Attribute mappings define how attributes are synchronized between Microsoft Entra ID and ScimOnPremises

Microsoft Entra ID Attribute	ScimOnPremises Attribute	Matching precedence
userPrincipalName	PLACEHOLDER	1
<a href="#">Add New Mapping</a>		

Show advanced options

## Edit Attribute List

X

 Save  Discard

### ScimOnPremises User Attributes

Name	Type	Primary Key?	Required?	Multi-Value?	Exact case?	API Expression
id	String	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
active	Boolean	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
PLACEHOLDER	String	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:ContosoLogin	String	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:export_password	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:Email	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:FirstName	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:InternalGUID	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:LastName	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:ObjectType	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:textID	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:AzureID	String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	<input type="text"/> String	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

### Tips

- Editing the attribute list informs the provisioning service what attributes exist in your system(s). Editing this list does not modify the schema of these systems.
- Leave "Metadata" blank for new attributes unless instructed by documentation. Requires a JSON-encoded object.
- Leave "Reference Object Attribute" blank unless the "Type" is set to "Reference". Enter referenced attribute in the form of `objectName.attributeName` or just `objectName`.
- See the online documentation on attribute editing.

## Edit Attribute

...

A mapping lets you define how the attributes in one class of Microsoft Entra object (e.g. Users) should flow to and from this application.

Mapping type (i)

Direct

Source attribute \* (i)

userPrincipalName

Default value if null (optional) (i)

Target attribute \* (i)

urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:ContosoLogin

active

id

PLACEHOLDER

urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:AzureID

urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:ContosoLogin

urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:Email

urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:export\_password

urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:FirstName

urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:InternalGUID

urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:LastName

urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:ObjectType

urn:ietf:params:scim:schemas:extension:ECMA2Host:2.0:User:textID

## Attribute Mapping

Save Discard

### Name

### Enabled

Yes  No

### Source Object

### Source Object Scope

All records

### Source Object

### Target Object Actions

- Create
- Update
- Delete

### Attribute Mappings

Attribute mappings define how attributes are synchronized between Microsoft Entra ID and ScimOnPremises

Microsoft Entra ID Attribute	ScimOnPremises Attribute	Matching precedence
userPrincipalName	urn:ietf:params:scim:schemas:extension:enterprise:2.0:User:active	1
Switch([IsSoftDeleted], , "False", "True", "True", "False")	active	
passwordProfile.password	urn:ietf:params:scim:schemas:extension:enterprise:2.0:User:password	
mail	urn:ietf:params:scim:schemas:extension:enterprise:2.0:User:mail	
givenName	urn:ietf:params:scim:schemas:extension:enterprise:2.0:User:givenName	
surname	urn:ietf:params:scim:schemas:extension:enterprise:2.0:User:surname	
mailNickname	urn:ietf:params:scim:schemas:extension:enterprise:2.0:User:mailNickname	
objectId	urn:ietf:params:scim:schemas:extension:enterprise:2.0:User:objectIdentifier	

[Add New Mapping](#)

Show advanced options

## OnPremises App (ECMA) - SQL | Users and groups

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**i** The application will appear for assigned users within My Apps. Set 'visible to users?' to no in properties to prevent this. →

Assign users and groups to app-roles for your application here. To create new app-roles for this application, use the [application registration](#).

[First 200 shown, to search all users & gro...](#)

Display Name	Object Type	Role assigned
<input type="checkbox"/> AG Ari Gold	User	User
<input type="checkbox"/> EM Eric Murphy	User	User
<input type="checkbox"/> GV Guus van Berge	User	User
<input type="checkbox"/> VC Vincent Chase	User	User
<input type="checkbox"/> TM Terrance McQuewick	User	User

## OnPremises App (ECMA) - SQL | Provision on demand

«

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Provision on-demand for a subset of users or groups before rolling it out broadly to your organization. When provisioning a group you can select 5 members at a time.

**i** No user or group will be provisioned on-demand that would not have been provisioned through the regular provisioning cycles.

Selected user

[Terrance McQuewick](#)

# OnPremises App (ECMA) - SQL | Provision on demand

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User



Terrance McQuewick

## 1. Import user

This step shows the user retrieved from the source system and the properties of the user in the source system.

Success | [View details](#)

## 2. Determine if user is in scope

This step shows the scoping conditions that were evaluated and which ones the user passed or failed.

Success | [View details](#)

## 3. Match user between source and target system

This step shows whether the user was found in the target system as well as the properties of the user in the target system.

Success | [View details](#)

## 4. Perform action

This step shows the action that was performed in the target application, such as creating a user or updating a user.

Success | [View details](#)

Quick Launch (Ctrl+Q)

File Edit View Project Query Designer Tools Window Help

New Query

ENTRA\_DEMO

Object Explorer

TEST-SCOM-01\SQL... - dbo.Employees

	ContosoLogin	FirstName	LastName	Email	InternalGUID	AzureID	textID
1	guus.van.berge...	Guus	van Berge	guusvanber...	NULL	5638ebd5-c623...	guus.van.berge
2	ariegold@test...	Ari	Gold	ariegold@te...	NULL	59che194-eb07...	ariegold
3	terrancemcq...	Terrance	McQuewick	terrancemcq...	NULL	1db5c7ca-b2f4...	terrancemcq...
4	Vincentchase...	Vincent	Chase	Vincentchas...	NULL	e1e87142-bdfe...	Vincentchase
5	ericmurphy@...	Eric	Murphy	ericmurphy...	NULL	4a4ae9f8-5a8b...	ericmurphy
6	NULL	NULL	NULL	NULL	NULL	NULL	NULL

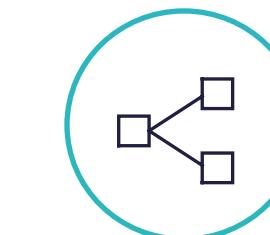
6 of 6

Ready

# Access Packages



Let users **request access and automate** access assignments, approval, workflows, reviews for all human identity types.



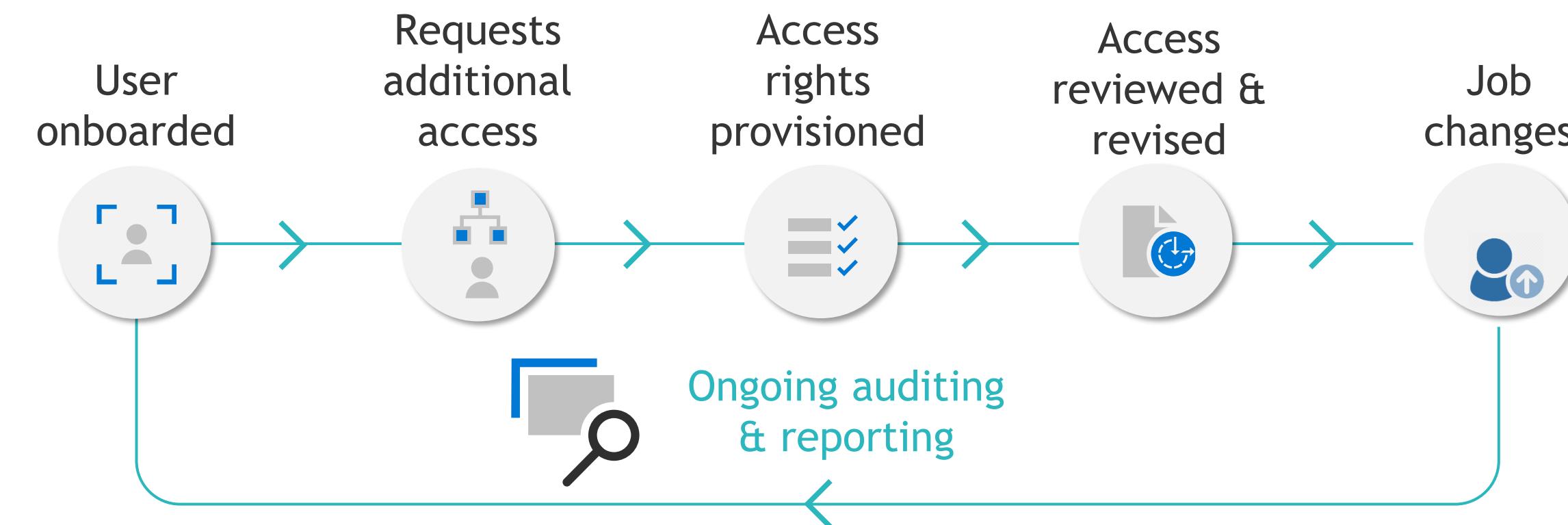
**Multi-stage approval workflow, separation of duties and access recertification.**



**Self-service** policy and workflow can be defined by app, group or site owners.



Supports custom workflows for access lifecycle (**through Logic Apps integration**)



## Identity Governance | Access packages

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&lt;

[+ New access package](#)[Column](#)[Refresh](#)[Got feedback?](#)

**i** The User Administrator role is no longer allowed to manage catalogs and access packages in Microsoft Entra Entitlement Management. Please transition to the Identity Governance Administrator role to continue managing access without disruption, or go to the Entitlement Management settings page if you need to temporarily opt out. [Learn more](#)

Search by catalog

Search by access package name

-Search by catalog-

Name	Description	Catalog	Pending requests	Active assignme...	...
OnPremApp1	This Access Package gives users access to the On-premises App1	General	0	3	...
ServiceNow App	This Access Package gives users access to the ServiceNow Application	General	0	4	...
Fileshare1	This Access Package gives users access to Fileshare1.	General	0	3	...

## Identity Governance | Catalogs

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&lt;

[New catalog](#)[Column](#)[Refresh](#)[Got feedback?](#)

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[Search by catalog name](#)

Enabled  
All

Enabled for external users  
All

Name	Description	Access packages	Resources	Enabled	...
Marketing	This catalog holds all resources for the marketing department.	0	0	Yes	...
General	Built-in catalog.	3	3	Yes	...

## Identity Governance | Catalogs

X

### Marketing | Resources

Catalog

«

+ Add resources    Column    X Remove

Require attributes

Refresh

Refresh from origin (Preview)

i No resources added to this catalog. Add resources →

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Search by resource name

Type

All

Resource	Description	Type	Sub Type	Onboarded
----------	-------------	------	----------	-----------

There are no resources in this catalog

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Microsoft Entra roles

Groups

Azure resources

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## Identity Governance | Catalogs

X

Home > Identity Governance | Catalogs > Marketing

### Marketing | Resources

X

Home > Identity Governance | Catalogs > Marketing

#### Marketing | Roles and administrators

X

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#### Privileged Identity Management

Microsoft Entra roles

Groups

Azure resources

+ Add catalog owner + Add catalog reader + Add access package manager + Add access package assignment manager Column Remove Refresh

Search by name Type Role  
All All

Name UPN Type Role Added by

No results

Home > Identity Governance

## Identity Governance | Catalogs

X

Home > Identity Governance | Catalogs > Marketing

### Marketing | Resources

X

Home > Identity Governance | Catalogs > Marketing

#### Marketing | Roles and administrators

X

Home > Identity Governance | Catalogs > Marketing

#### Marketing | Custom extensions

X

« Add a custom extension Column Refresh Got feedback?

Search by custom extension name

Name Logic app Type Token Security

No Custom Extensions

- Management
  - Resources
  - Access packages
  - Roles and administrators
  - Custom extensions
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#### Privileged Identity Management

- Microsoft Entra roles
- Groups
- Azure resources

## Identity Governance | Access packages



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Groups

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Search by catalog

Search by access package name

-Search by catalog-

Name	Description	Catalog	Pending requests	Active assignme...	...
OnPremApp1	This Access Package gives users access to the On-premises App1	General	0	3	...
ServiceNow App	This Access Package gives users access to the ServiceNow Application	General	0	4	...
Fileshare1	This Access Package gives users access to Fileshare1.	General	0	3	...

## Identity Governance | Access packages

X

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Enabled

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Name	Description	Active assignme...	Enabled
<input type="checkbox"/> Manual assignment by admins	Allow administrators to directly assign specific users.	0	No
<input type="checkbox"/> Marketing members	This policy makes sure the marketing team has access to the On-premises App1.	3	Always enabled
<input type="checkbox"/> All users	This policy makes sure all member users can request access to On-premises App1 with manager approval.	0	Yes

## Create policy

[\\* Basics](#) [\\* Requests](#) Requestor information [\\* Lifecycle](#) Custom extensions

## Users who can request access

Users who can request access \*

- For users in your directory  
Allow users and groups in your directory to request this access package
- For users not in your directory  
Allow users in connected organizations (other directories and domains) to request this access package
- None (administrator direct assignments only)  
Allow administrators to directly assign specific users to this access package. Users cannot request this access package

 Specific users and groups

- All members (excluding guests)
- All users (including guests)

Select users and groups ⓘ

0 selected

\* + Add users and groups

## Approval

Require approval \* ⓘ

Yes No

Require requestor justification ⓘ

Yes No

How many stages ⓘ

1 2 3

## First Approver

Manager as approver

Fallback ⓘ

0 selected

\* + Add fallback

Decision must be made in how many days? \* ⓘ

14

Maximum 14

Require approver justification ⓘ

Yes No

Show advanced request settings

## Enable

Enable new requests \* ⓘ

Yes No

Active assignments	Enabled
	No
	Always enabled
	Yes

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Collect information and attributes from requestor. Go to Catalogs to add attributes for this access package's catalog resources. [Learn more](#)

Questions Attributes

Question	Add localization	Answer format	Multiple choice options	Regex pattern (Preview)	Required
<input type="text" value="Enter question"/>	<a href="#">add localization</a>	<a href="#">Answer format</a>		<input type="checkbox"/>	

Active assignme...	Enabled
	No
	Always enabled
	Yes

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## Create policy ...

\* Basics \* Requests Requestor information \* Lifecycle Custom extensions

## Expiration

Access package assignments expire ⓘ On date Number of days Number of hours Never

Assignments expire after (number of days) \*

365

Users can request specific timeline ⓘ Yes No

Yes

No

[Hide advanced expiration settings](#)

Allow users to extend access ⓘ Yes No

Yes

No

Require approval to grant extension ⓘ Yes No

Yes

No

## Access Reviews

Require access reviews \*

Yes

No

Starting on ⓘ

01/28/2024



Review frequency ⓘ

Annually

Bi-annually

Quarterly

Monthly

Weekly

Duration (in days) \*

25

Maximum 80

Reviewers ⓘ

 Self-review Specific reviewer(s) Manager[Show advanced access review settings](#)

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# How to move forward from here..

Source of  
truth & JML

Low-hanging  
Apps

Entitlement  
& reviews

Keep doing  
what you're  
doing



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**Thanks for comming to  
my session!**

**Time for Q&A**

**Find me after for  
feedback and more info**

