ORACLE

Custom claims in azureAD to adjust unique name id

IDCS Federation

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Updated 15/2-2022

The challenge, azureAD as IdP, IDCS as SP, with different mail domains

When federation from Azure, the unique nameid is with the domain name of Azure Domain you federate from, and the azureAD domain name does not always match the unique name in IDCS

azureAD principal username is matched to IDCS username

The solution is to create a custom claim that strips off the domain name from the username that is mapped to IDCS username

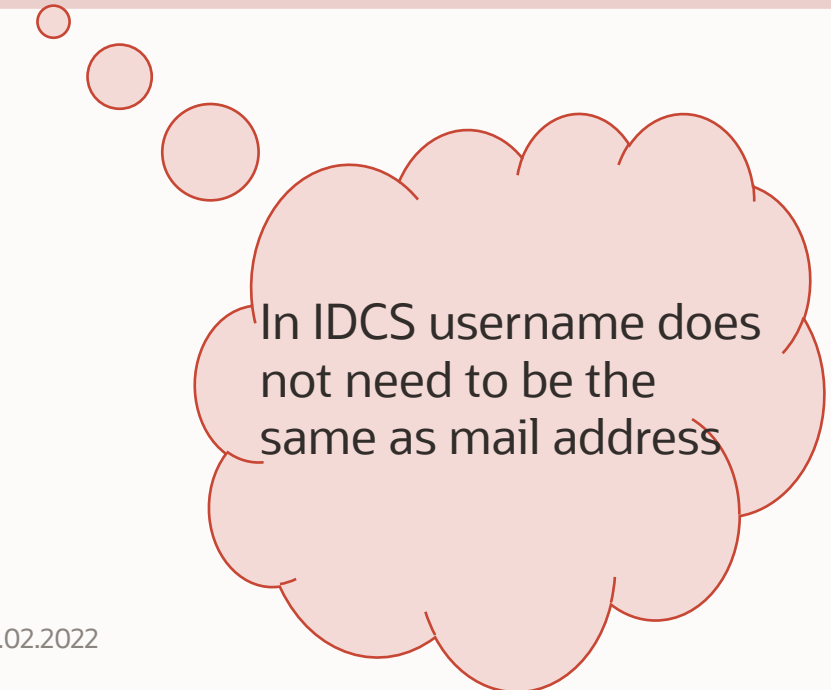
A claim can be conditional, ie. Linked to group membership

Example, azureAD users and groups

azureAD Name	azureAD User Prinipal name	azureAD Group membership
Anne Durand	anne.durand@ingeosoracle.onmicrosoft.com	ebsuser
Casey Brown	casey.brown@ingeosoracle.onmicrosoft.com	ebsuser
Dart Vader	dvader@ingeosoracle.onmicrosoft.com	ociuser

Example, IDCS users

IDCS Display Name	IDCS User name	IDCS Mailid
Anne Durand	anne.durand	anne.durand@gmail.com
Casey Brown	casey.brown	casey.brown@gmail.com
Dart Vader	dvader@ingeosoracle.onmicrosoft.com	inge.os@oracle.com



azureAD users and groups

Anne.Durand - Microsoft Azure

portal.azure.com/#blade/Microsoft_AAD_IAM/UserDetailsMenuBlade/Profile/userId/3f710623-12d1-4149-a089-2e97034ce90c

Microsoft Azure

Search resources, services, and docs (G+/)

inge.os@oracle.com
DEFAULT DIRECTORY

Home > Default Directory > Users > Anne.Durand

Anne.Durand | Profile

User

- Diagnose and solve problems

Manage

- Profile
- Assigned roles
- Administrative units
- Groups
- Applications
- Licenses
- Devices
- Azure role assignments
- Authentication methods

Activity

- Sign-in logs
- Audit logs

Troubleshooting + Support

- New support request

Edit | Reset password | Revoke sessions | Delete | Refresh | Got feedback?

Anne.Durand

Anne.Durand@ingeosoracle.onmicrosoft.com

AN

User Sign-ins

Group memberships

1

Creation time

7/28/2021, 7:44:12 AM

Identity

Name	First name	Last name
Anne.Durand	Anne	Durand

User Principal Name	User type
Anne.Durand@ingeosoracle.onmicrosoft.com	Member

Object ID	Issuer	
3f710623-12d1-4149-a089-2e97034...	ingeosoracle.onmicrosoft.com	Manage B2B collaboration

View more

Casey Brown | Profile

User

Diagnose and solve problems

Manage

Profile

Assigned roles

Administrative units

Groups

Applications

Licenses

Devices

Azure role assignments

Authentication methods

Activity

Sign-in logs

Audit logs

Troubleshooting + Support

New support request

Edit | Reset password | Revoke sessions | Delete | Refresh | Got feedback?

Casey Brown

casey.brown@ingeosoracle.onmicrosoft.com

CB

User Sign-ins

Group memberships
1

Creation time
12/28/2021, 6:40:48 PM

Identity

Name	First name	Last name
Casey Brown	Casey	Brown

User Principal Name	User type
casey.brown@ingeosoracle.onmicrosoft.com	Member

Object ID
77bafe39-3a92-4492-a7a2-a26bc9c...

Issuer
ingeosoracle.onmicrosoft.com

Manage B2B collaboration

View more

Dart Vader - Microsoft Azure

portal.azure.com/#blade/Microsoft_AAD_IAM/UserDetailsMenuBlade/Profile/userId/7b641dbb-4a49-4ce6-bde7-c3249d091dec

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Home > Default Directory > Users > Dart Vader

Dart Vader | Profile

User

Edit | Reset password | Revoke sessions | Delete | Refresh | Got feedback?

- Diagnose and solve problems

Manage

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- Licenses
- Devices
- Azure role assignments
- Authentication methods

Activity

- Sign-in logs
- Audit logs

Troubleshooting + Support

- New support request

Dart Vader

Dvader@ingeosoracle.onmicrosoft.com

DV

User Sign-ins

Group memberships

1

Creation time

10/27/2020, 6:33:36 PM

Identity

Name	First name	Last name
Dart Vader	Dart	Vader

User Principal Name	User type
Dvader@ingeosoracle.onmicrosoft.com	Member

Object ID: 7b641dbb-4a49-4ce6-bde7-c3249d...

Issuer: ingeosoracle.onmicrosoft.com

Manage B2B collaboration

View more

IDCS users

Identity Cloud Service

idcs-46afca0c291b45058da6871a0afd54cf.identity.oraclecloud.com/ui/v1/adminconsole?root=users

ORACLE Identity Cloud Service

License Type :: Foundation
Cookie Preferences

IO

Users

User name, first name, last name or email starts with

Select All | Add | Import | Export | Activate | Deactivate | More

AD	anne.durand	**Display Name** Anne Durand	**Email** inge.os@oracle.com	
CB	casey.brown	**Display Name** Casey Brown	**Email** inge.os@oracle.com	
DV	Dvader@ingeosoracle.onmic...	**Display Name** Dart Vadar	**Email** inge.os@oracle.com	
IM	inge.os_oracle.com#EXT#@i...	**Display Name** Inge MS	**Email** inge.os@oracle.com	
IO	inge.os@oracle.com	**Display Name** Inge Os	**Email** inge.os@oracle.com	
IO	bjorn.inge.os@gmail.com	**Display Name** Inge Os	**Email** bjorn.inge.os@gmail.com	
LJ	lisa.jones	**Display Name** Lisa Jones	**Email** inge.os@oracle.com	

azureAD Claim for federation

Members of group ebsusers, mail domain is stripped off
Members of ociusers keeps mail domain

Only members of these two groups federates successfully

OCI, Always Free | Overview

Enterprise Application

Overview
Deployment Plan

Manage

Properties
Owners
Roles and administrators (Preview)
Users and groups
Single sign-on
Provisioning
Self-service
Custom security attributes (preview)

Security

Conditional Access
Permissions
Token encryption

Properties

Name
OCI, Always Free

Application ID
bec4016b-5814-4232-ab7d...

Object ID
d229f7c1-179a-4020-95be-...

Getting Started

1. Assign users and groups

Provide specific users and groups access to the applications

Assign users and groups

2. Set up single sign on

Enable users to sign into their application using their Azure AD credentials

Get started

3. Provision User Accounts

Automatically create and delete user accounts in the application

4. Conditional Access

Secure access to this application with a customizable access policy.

OCI, Always Free | SAML-based Sign-on

Enterprise Application

Overview
Deployment Plan

Manage

Properties
Owners
Roles and administrators (Preview)
Users and groups
Single sign-on
Provisioning
Self-service
Custom security attributes (preview)

Security

Conditional Access
Permissions
Token encryption

Upload metadata file | Change single sign-on mode | Test this application | Got feedback?

Set up Single Sign-On with SAML

An SSO implementation based on federation protocols improves security, reliability, and end user experiences and is easier to implement. Choose SAML single sign-on whenever possible for existing applications that do not use OpenID Connect or OAuth. Learn more.

Read the configuration guide for help integrating OCI, Always Free.

1 Basic SAML Configuration

Edit

Identifier (Entity ID)	https://idcs-46afca0c291b45058da6871a0afd54cf.identity.oraclecloud.com:443/fed
Reply URL (Assertion Consumer Service URL)	https://idcs-46afca0c291b45058da6871a0afd54cf.identity.oraclecloud.com/fed/v1/sp/sso
Sign on URL	https://console.eu-frankfurt-1.oraclecloud.com/
Relay State	*Optional*
Logout Url	https://idcs-46afca0c291b45058da6871a0afd54cf.identity.oraclecloud.com/fed/v1/sp/slo

2 Attributes & Claims

Edit

givenname	user.givenname
surname	user.surname
emailaddress	user.mail

Attributes & Claims

Required claim

Claim name	Value
Unique User Identifier (Name ID)	Multiple conditions [nameid-format:...

Additional claims

Claim name	Value
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/emailaddress	user.mail
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/givenname	user.givenname
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/name	user.userprincipalname
http://schemas.xmlsoap.org/ws/2005/05/identity/claims/surname	user.surname

Manage claim

Save | Discard changes | Got feedback?

Name: nameidentifier

Namespace: http://schemas.xmlsoap.org/ws/2005/05/identity/claims

Choose name identifier format

Name identifier format *: Unspecified

Source: Attribute / Transformation

Source attribute: Select from drop down or type a constant

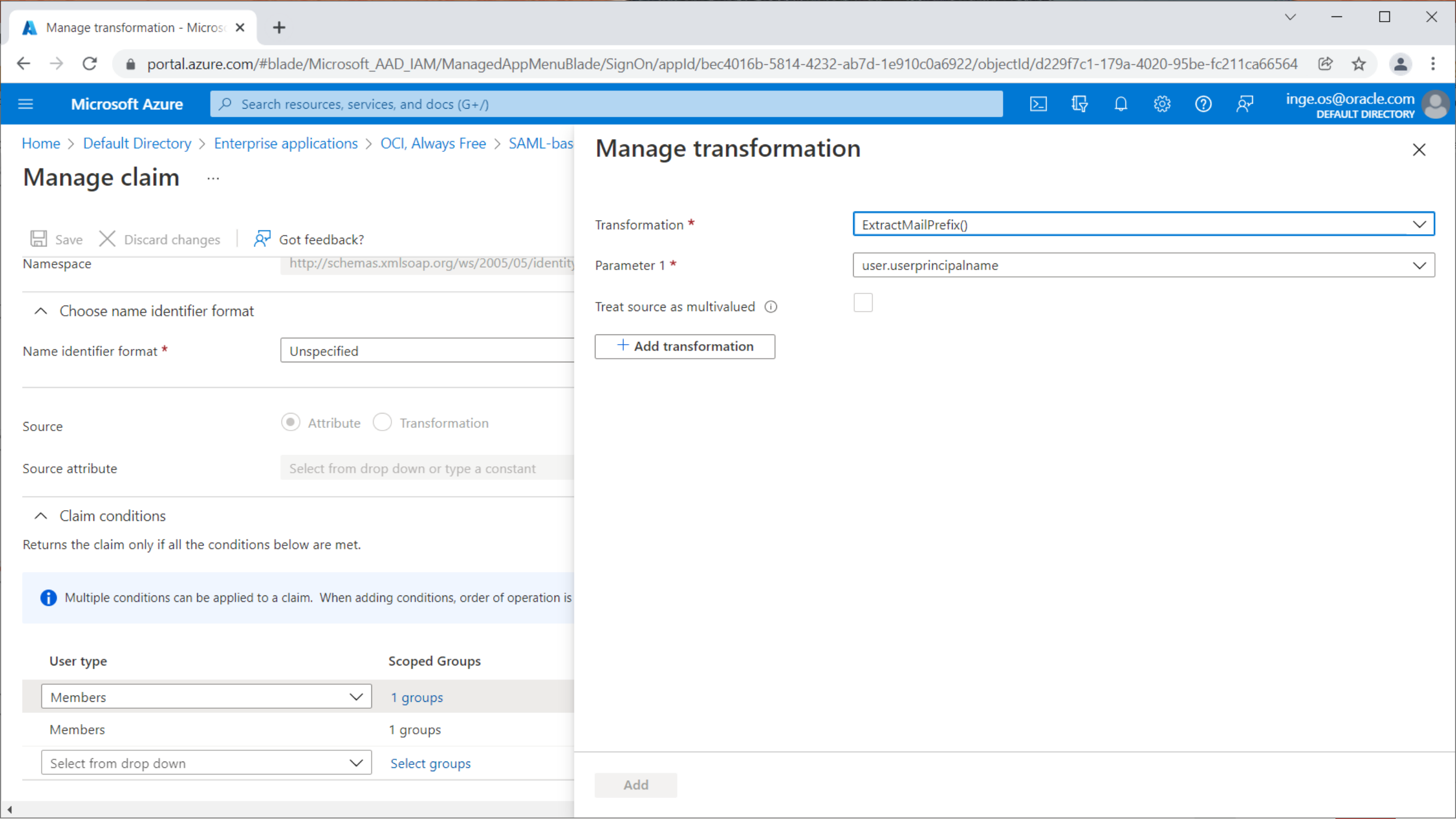
Claim conditions

Returns the claim only if all the conditions below are met.

Multiple conditions can be applied to a claim. When adding conditions, order of operation is important. Read the documentation for more information.

User type	Scoped Groups	Source	Value
Members	1 groups	Transformation	ExtractMailPrefix (user.userprincipalname)
Members	1 groups	Attribute	user.userprincipalname

Claim for ebsusers group


Manage transformation - Micros
portal.azure.com/#blade/Microsoft_AAD_IAM/ManagedAppMenuBlade/SignOn/appId/bec4016b-5814-4232-ab7d-1e910c0a6922/objectId/d229f7c1-179a-4020-95be-fc211ca66564
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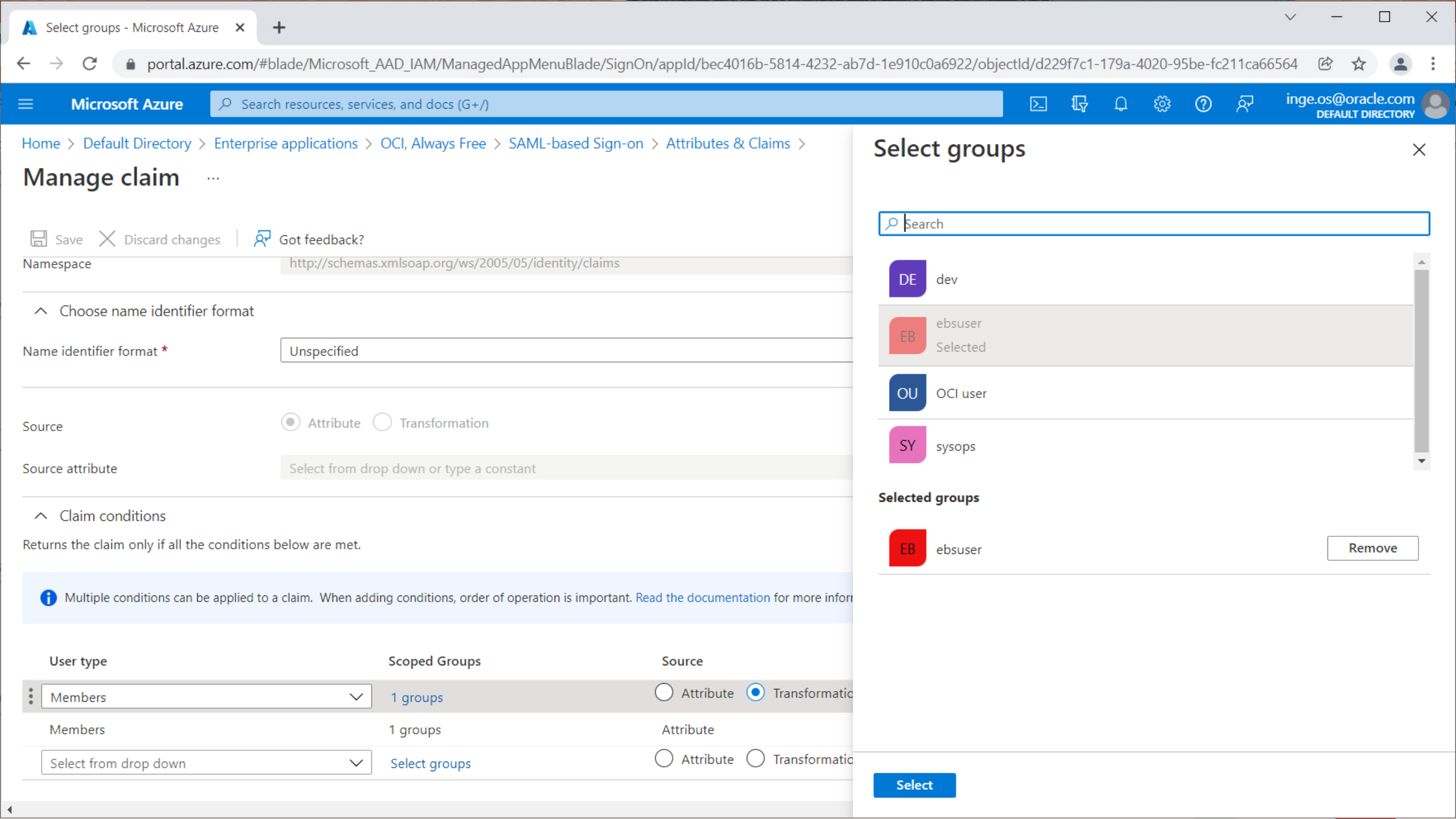
Home > Default Directory > Enterprise applications > OCI, Always Free > SAML-bas
Manage claim
Save
Discard changes
Got feedback?
Namespace
http://schemas.xmlsoap.org/ws/2005/05/identity
Choose name identifier format
Name identifier format *
Unspecified
Source
Attribute
Transformation
Source attribute
Select from drop down or type a constant
Claim conditions
Returns the claim only if all the conditions below are met.
Multiple conditions can be applied to a claim. When adding conditions, order of operation is
User type
Scoped Groups
Members
1 groups
Members
1 groups
Select from drop down
Select groups
Manage transformation
Transformation *
ExtractMailPrefix()
Parameter 1 *
user.userprincipalname
Treat source as multivalued
Add transformation
Add


Select groups - Microsoft Azure
portal.azure.com/#blade/Microsoft_AAD_IAM/ManagedAppMenuBlade/SignOn/appId/bec4016b-5814-4232-ab7d-1e910c0a6922/objectId/d229f7c1-179a-4020-95be-fc211ca66564
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DEFAULT DIRECTORY
Home > Default Directory > Enterprise applications > OCI, Always Free > SAML-based Sign-on > Attributes & Claims >
Manage claim
Save
Discard changes
Got feedback?
Namespace
http://schemas.xmlsoap.org/ws/2005/05/identity/claims
Choose name identifier format
Name identifier format *
Unspecified
Source
Attribute
Transformation
Source attribute
Select from drop down or type a constant
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Returns the claim only if all the conditions below are met.
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User type
Scoped Groups
Source
Members
1 groups
Attribute
Transformatic
Members
1 groups
Attribute
Select from drop down
Select groups
Attribute
Transformatic
Select groups
Search
DE
dev
EB
ebsuser
Selected
OU
OCI user
SY
sysops
Selected groups
EB
ebsuser
Remove
Select

Claim for ociusers group

Manage claim - Microsoft Azure

portal.azure.com/#blade/Microsoft_AAD_IAM/ManagedAppMenuBlade/SignOn/appId/bec4016b-5814-4232-ab7d-1e910c0a6922/objectId/d229f7c1-179a-4020-95be-fc211ca66564

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Manage claim

Save | Discard changes | Got feedback?

Namespace: http://schemas.xmlsoap.org/ws/2005/05/identity/claims

Choose name identifier format

Name identifier format *: Unspecified

Source: Attribute / Transformation

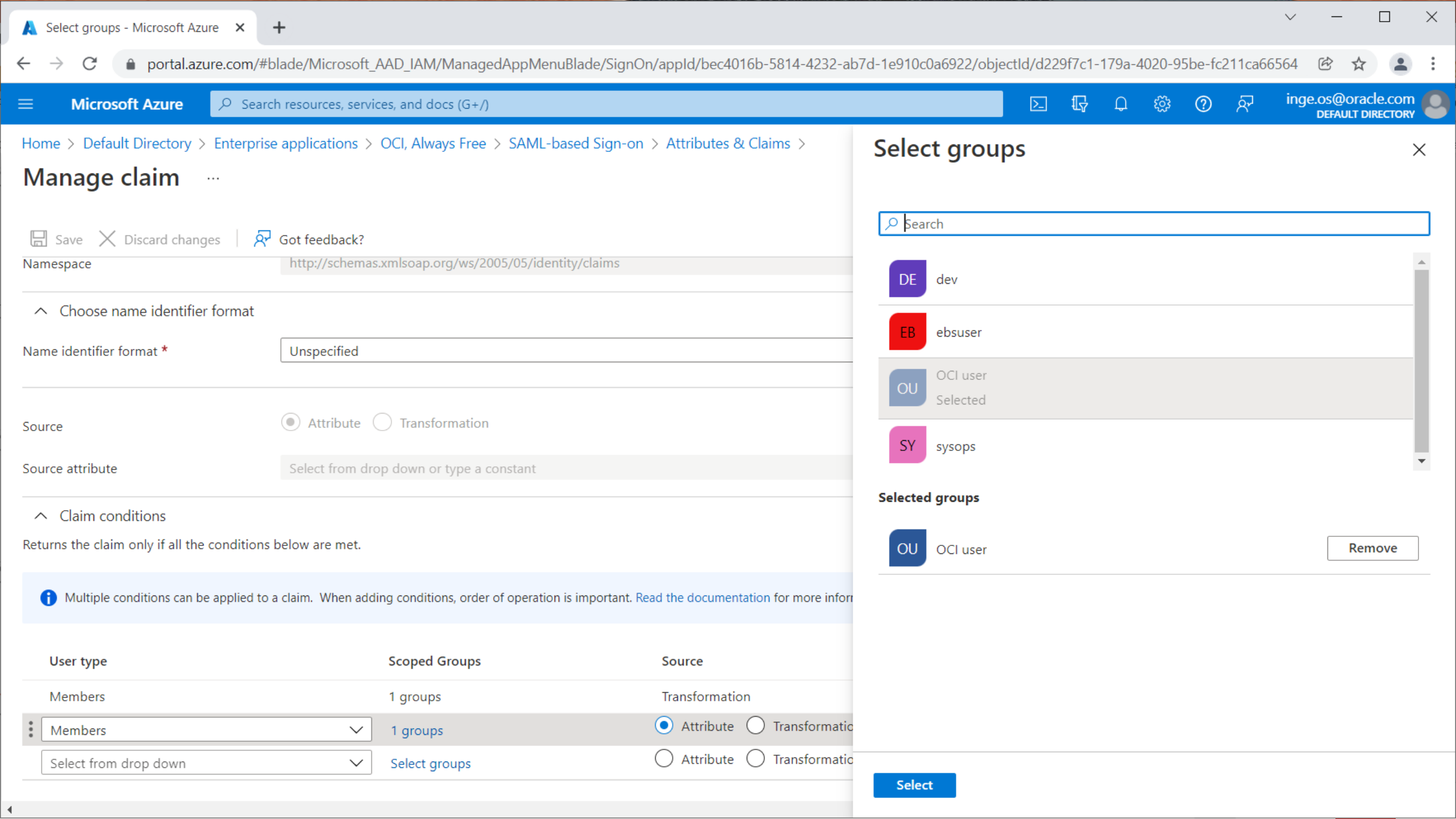
Source attribute: Select from drop down or type a constant

Claim conditions

Returns the claim only if all the conditions below are met.

Multiple conditions can be applied to a claim. When adding conditions, order of operation is important. Read the documentation for more information.

User type	Scoped Groups	Source	Value
Members	1 groups	Transformation	ExtractMailPrefix (user.userprincipalname)
Members	1 groups	Attribute / Transformation	user.userprincipalname
Select from drop down	Select groups	Attribute / Transformation	*Select a User type and Source to enable the list*


Select groups - Microsoft Azure
portal.azure.com/#blade/Microsoft_AAD_IAM/ManagedAppMenuBlade/SignOn/appId/bec4016b-5814-4232-ab7d-1e910c0a6922/objectId/d229f7c1-179a-4020-95be-fc211ca66564
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DEFAULT DIRECTORY
Home > Default Directory > Enterprise applications > OCI, Always Free > SAML-based Sign-on > Attributes & Claims >
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User type
Scoped Groups
Source
Members
1 groups
Transformation
Members
1 groups
Attribute
Transformatic
Select from drop down
Select groups
Attribute
Transformatic
Select groups
Search
DE
dev
EB
ebsuser
OU
OCI user
Selected
SY
sysops
Selected groups
OU
OCI user
Remove
Select

Documentation reference

MS AD, Claims customization reference

https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-saml-claims-customization

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