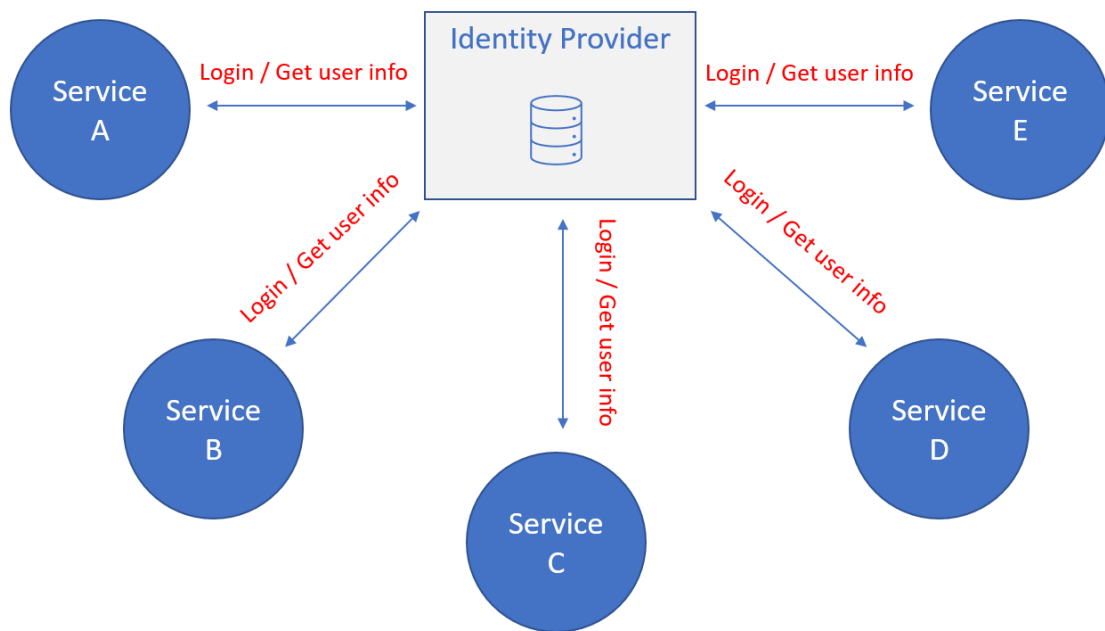


## Chapter 1: Walkthrough of Digital Identity in the Enterprise



## Individual Registration

\*Mandatory

- GARBAGE/JUNK VALUES IN PROFILE MAY LEAD TO DEACTIVATION
- Please use a valid E-Mail ID and mobile number in registration.

Your user id, password and an activation link will be sent to your registered E-Mail id and mobile verification code will be sent to registered mobile number.

Username \*  (Max 10 Characters) [Check Availability](#)

If you forget your password, we will identify you with this information

Security Question \*

Your Answer \*

First name \*

Last name \*

Gender \*  Marital Status \*

Date of birth \*

Occupation \*

Email ID \*

Mobile \* +91

Nationality \*

### Residential Address

Address \*   
 (optional)

(optional)

City \*  (other)

State \*  (other)

Pin/Zip \*

Country \*

Phone \*

Copy Residence to office Address ☒ Yes ☐ No

### Other Services

Subscription to Special Offers/Commercial Promotions/Newsletters through email/ SMS

- Information regarding tourism packages & Special offers from IRCTC\* Third party offers (Not more than 2 such mails/SMS per month)\* ☒ Yes ☐ No

Third party offers (Not more than 2 such mails per month)\* ☒ Yes ☐ No

Please inform me about ☒ Yes ☐ No

Enter Verification Code

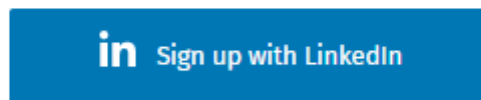
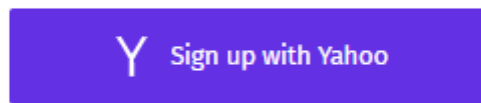
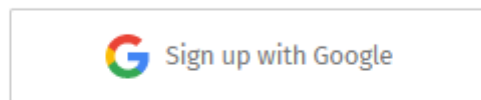
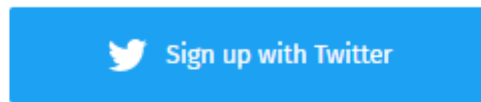
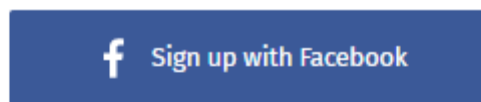
H42788K

Enter the text from Image : \*

[Click here for new Image](#)

Letters are case sensitive.

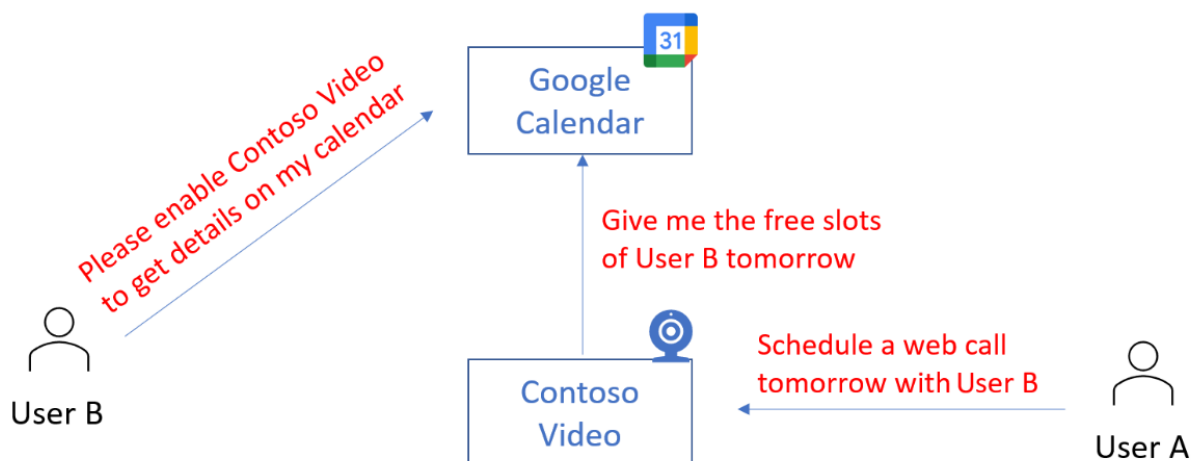
[Submit](#) [Reset](#)

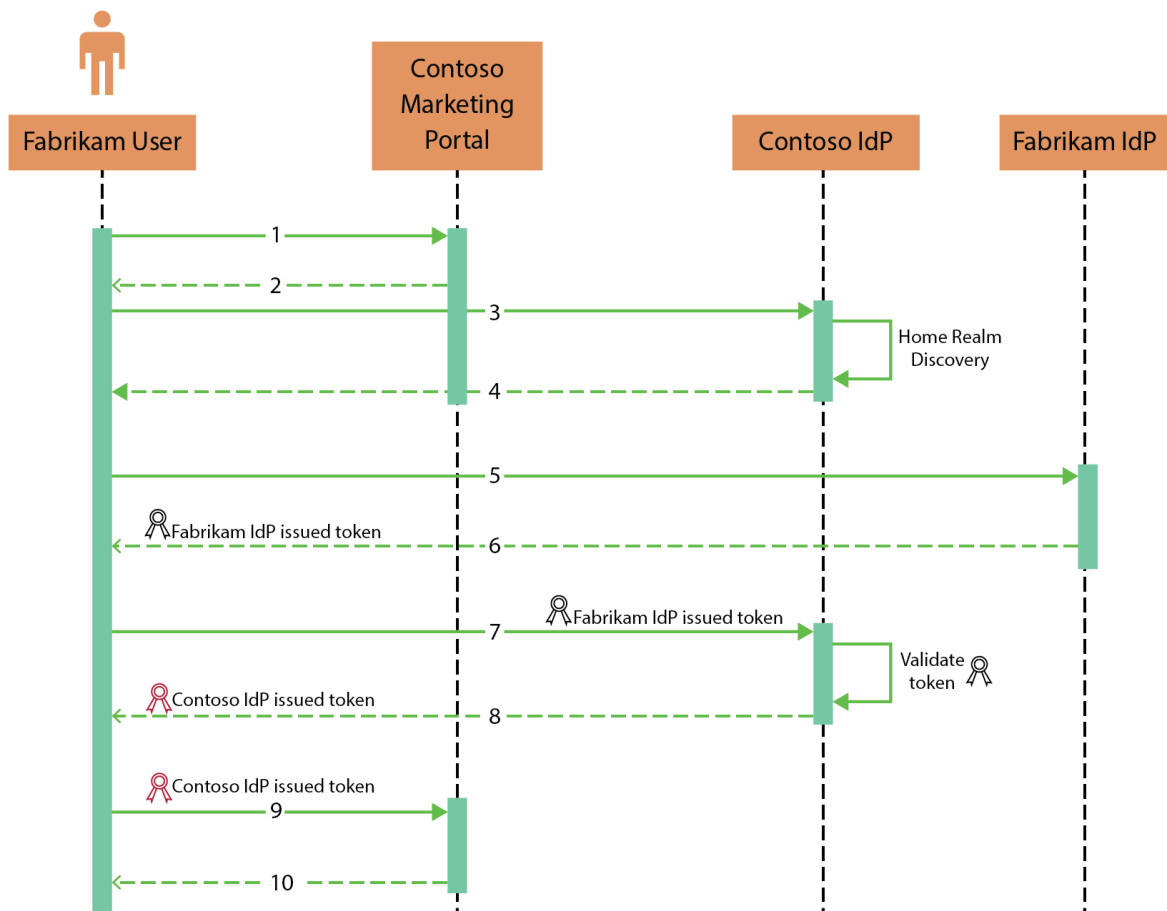
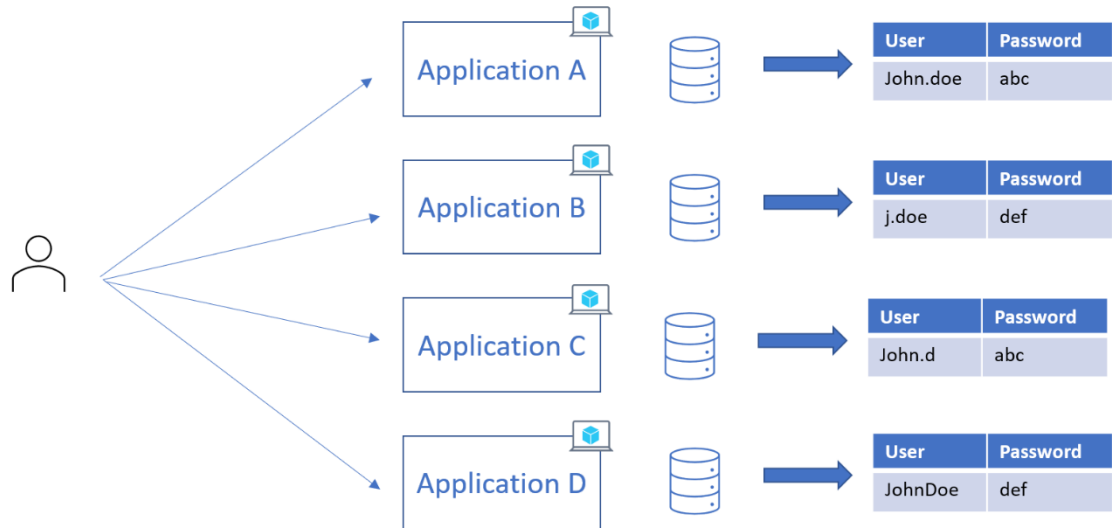


or

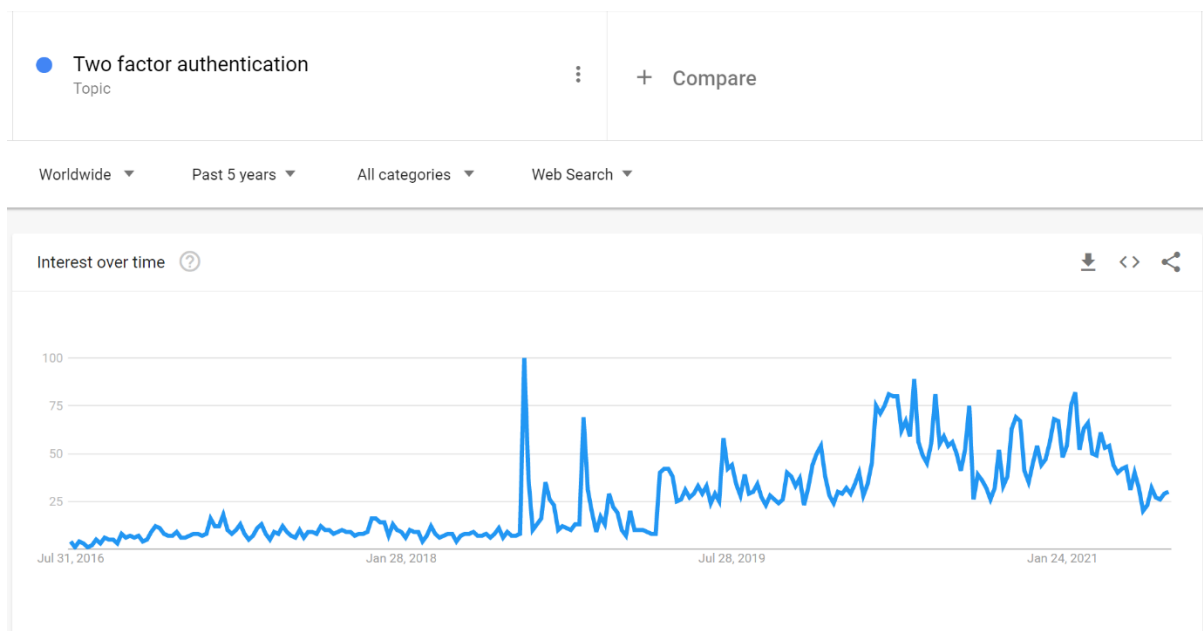
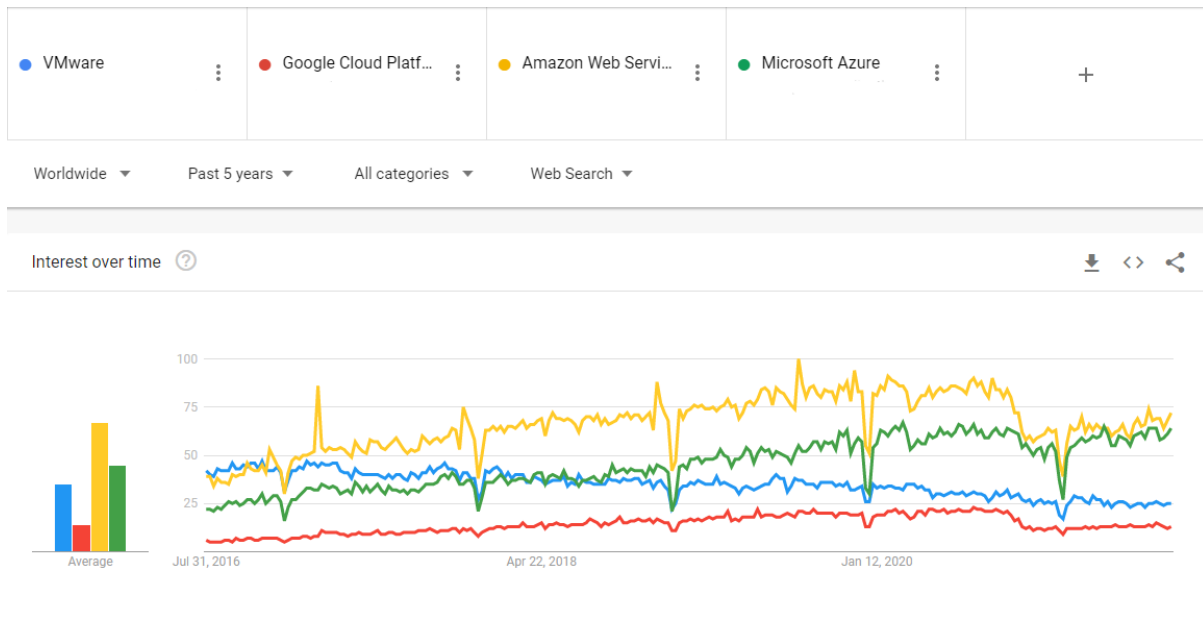
Sign up with e-mail

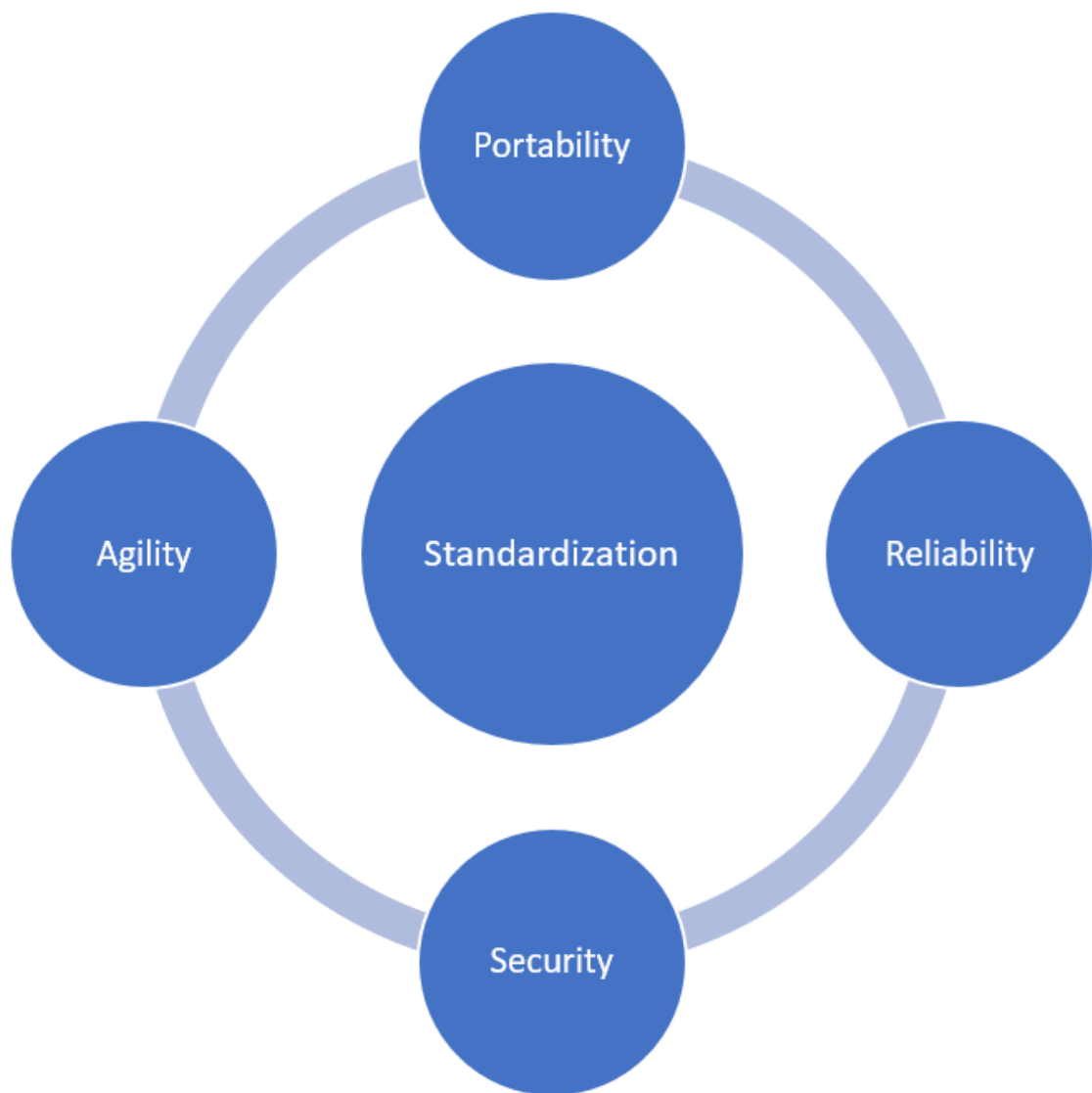
Already a member? [Sign in](#)





## Chapter 2: The Cloud Era and Identity





[Home](#) > [KatsutonX](#) > [Users](#) >

## New user ...

KatsutonX

[Got feedback?](#)

### Create user

Create a new user in your organization. This user will have a user name like `alice@katsutonx.onmicrosoft.com`.  
[I want to create users in bulk](#)



### Invite user

Invite a new guest user to collaborate with your organization. The user will be emailed an invitation they can accept in order to begin collaborating.  
[I want to invite guest users in bulk](#)

[Help me decide](#)

## Identity

User name \* ⓘ

testuser01 ✓



katsuton.com ▼

[The domain name I need isn't shown here](#)

Name \* ⓘ

Test User 01 ✓

First name

Test ✓

Last name

User01 ✓

## Password



Auto-generate password



Let me create the password

Initial password

\*\*\*\*\*



Show Password

[Create](#)

## Add new user



First name \*

Last name \*

Primary email \* @ katsuton.com

Organizational unit\*



Secondary email

Phone number

\* indicates a required field



Automatically generate a password



Ask for a password change at the next sign-in

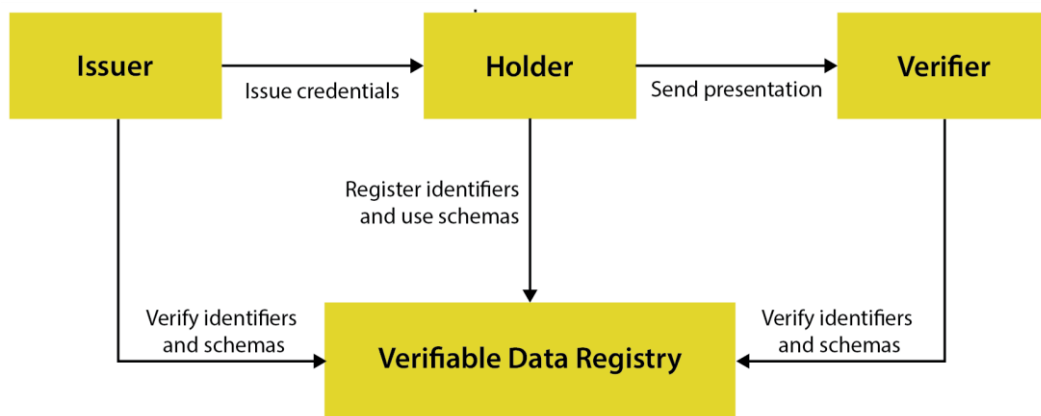
CANCEL ADD NEW USER

## Scheme

**did:example:123456789abcdefghi**

**DID Method** **DID Method-Specific Identifier**






## Chapter 3: OAuth 2.0 and OIDC

[Cancel](#)

---

 Spotify

---

To continue, log in to Spotify.

**LOG IN WITH FACEBOOK**

---

OR

Email address or username

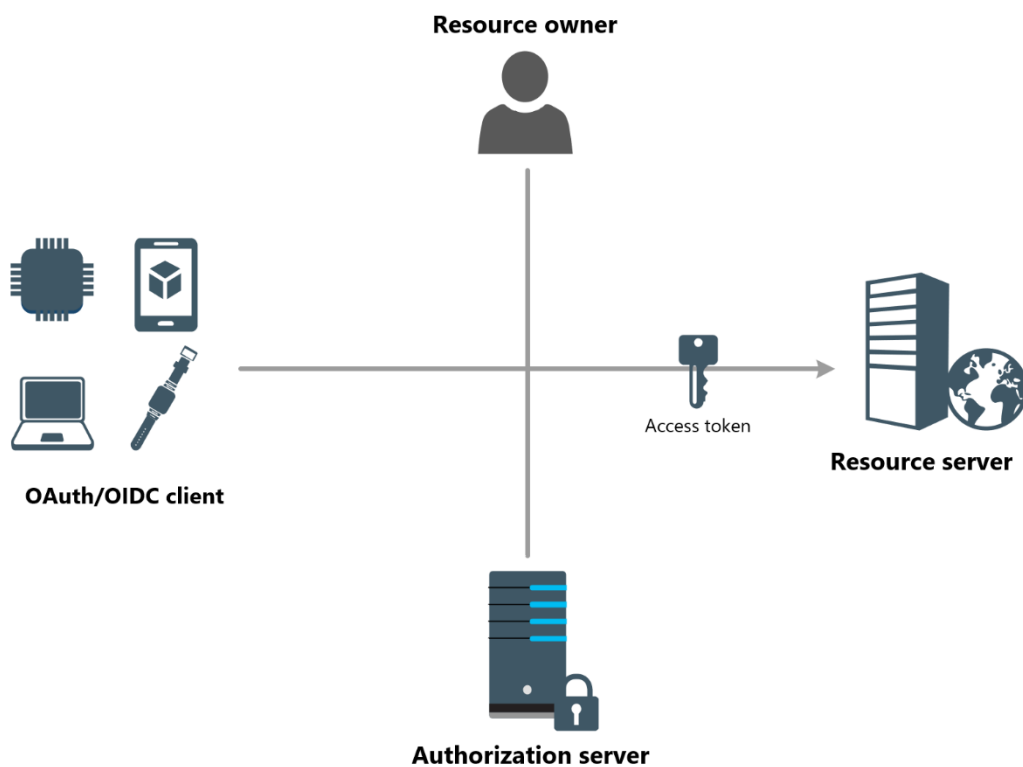
Password

☒ Remember me

**LOG IN**

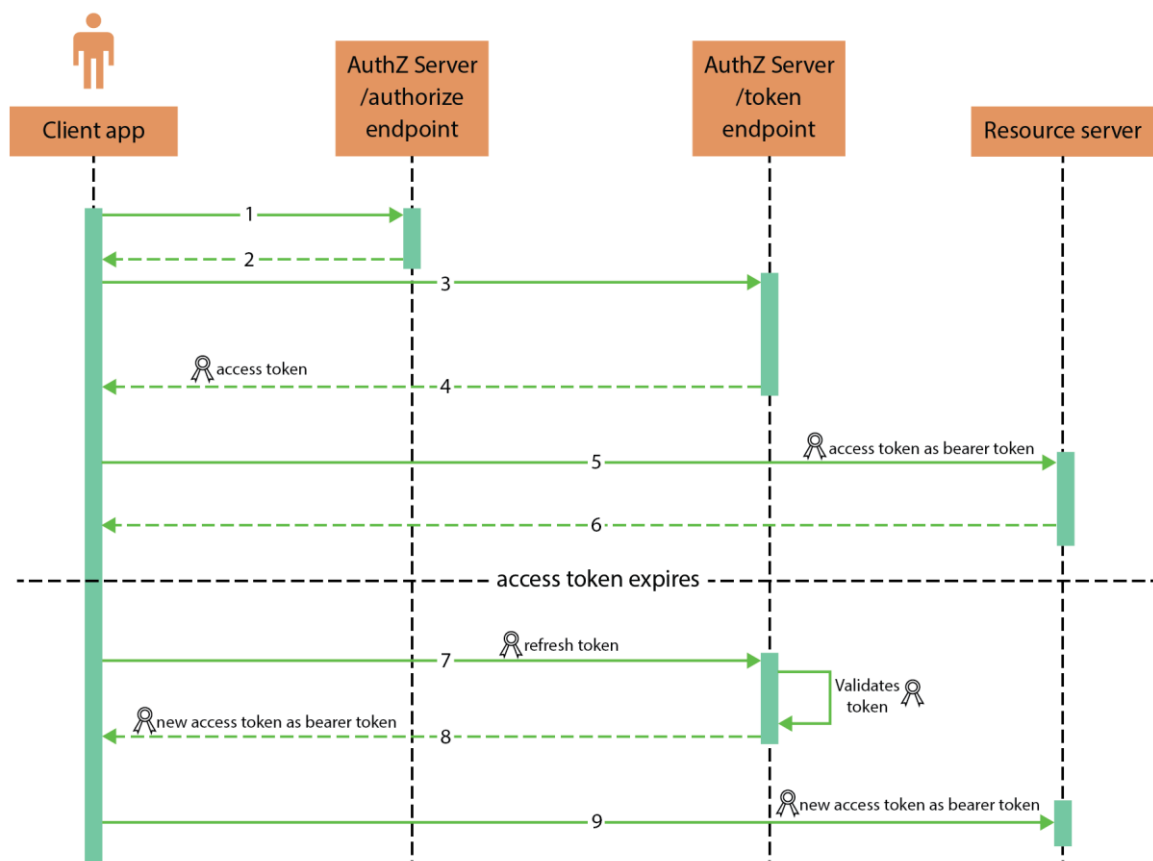
[Forgot your password?](#)

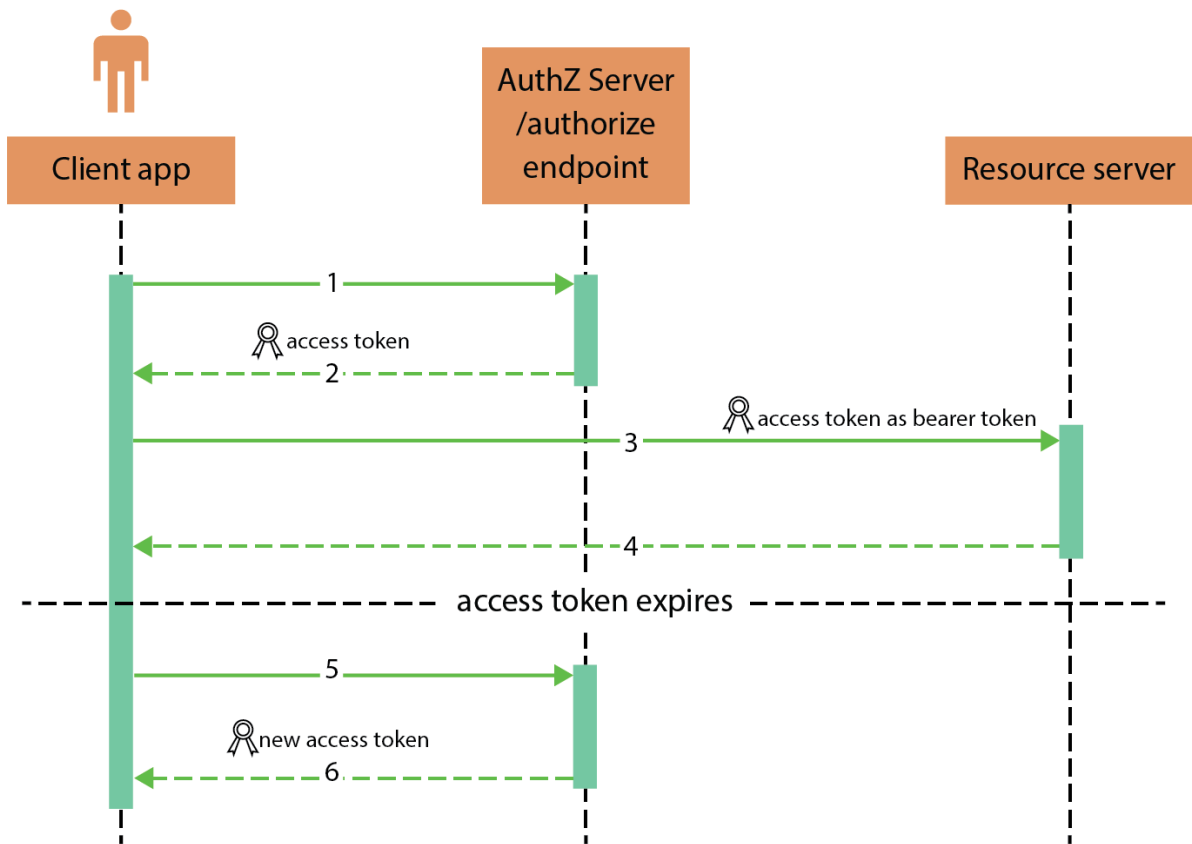
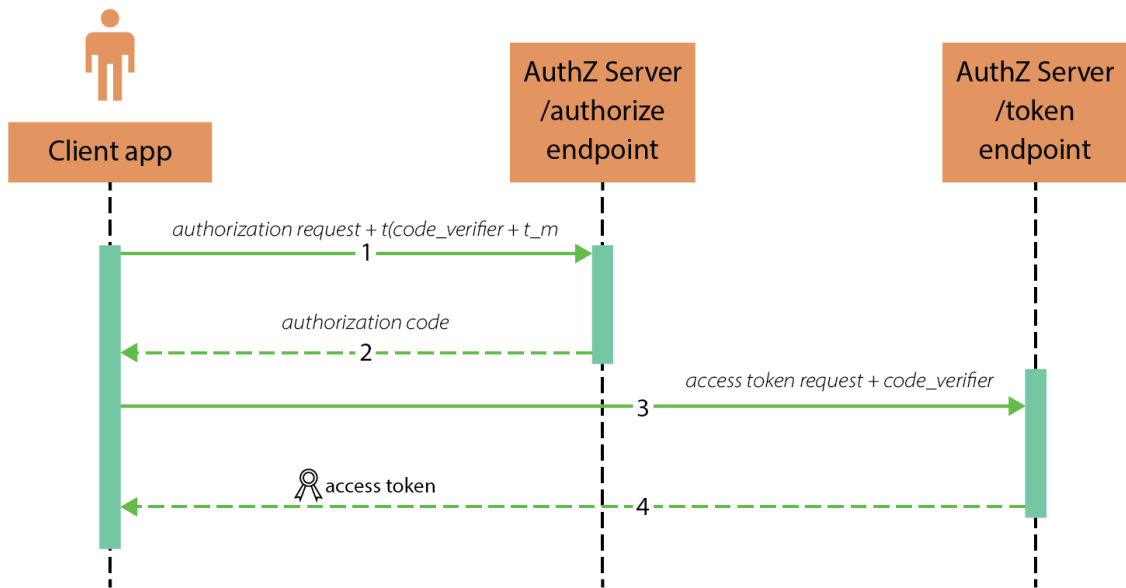
---

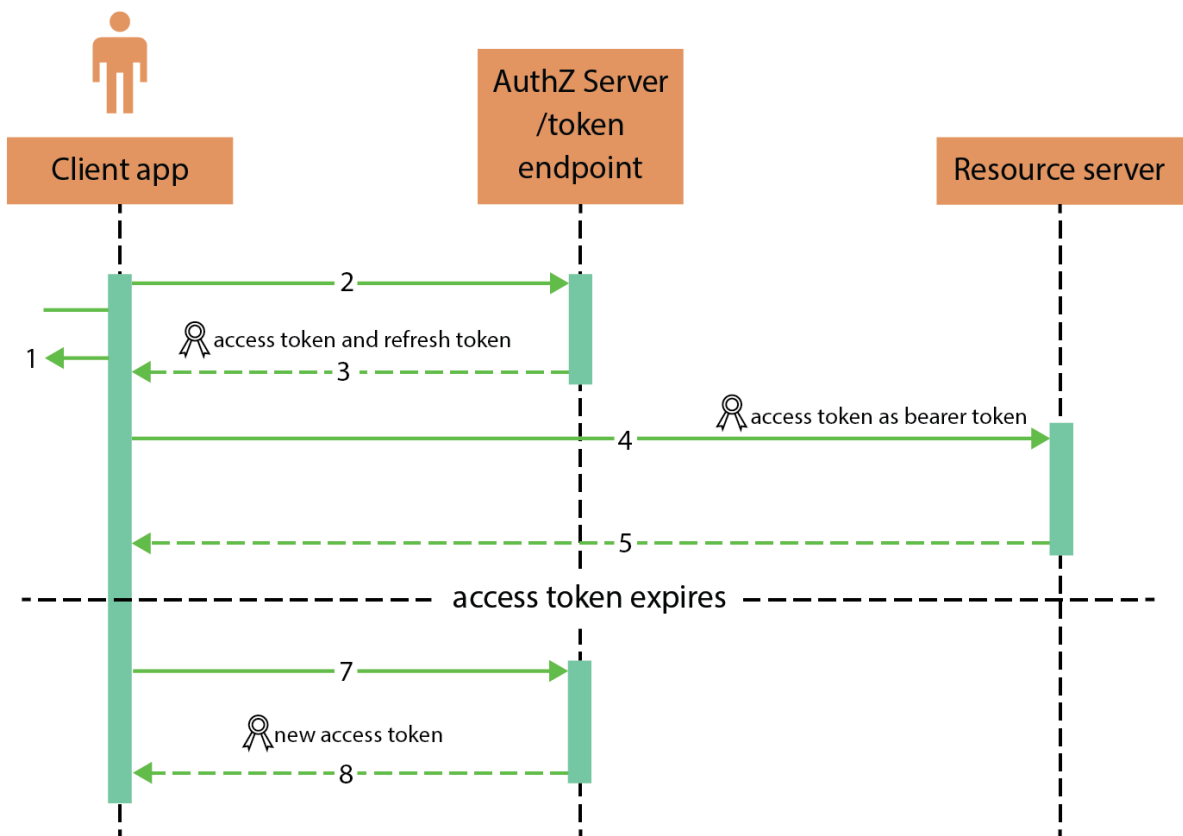
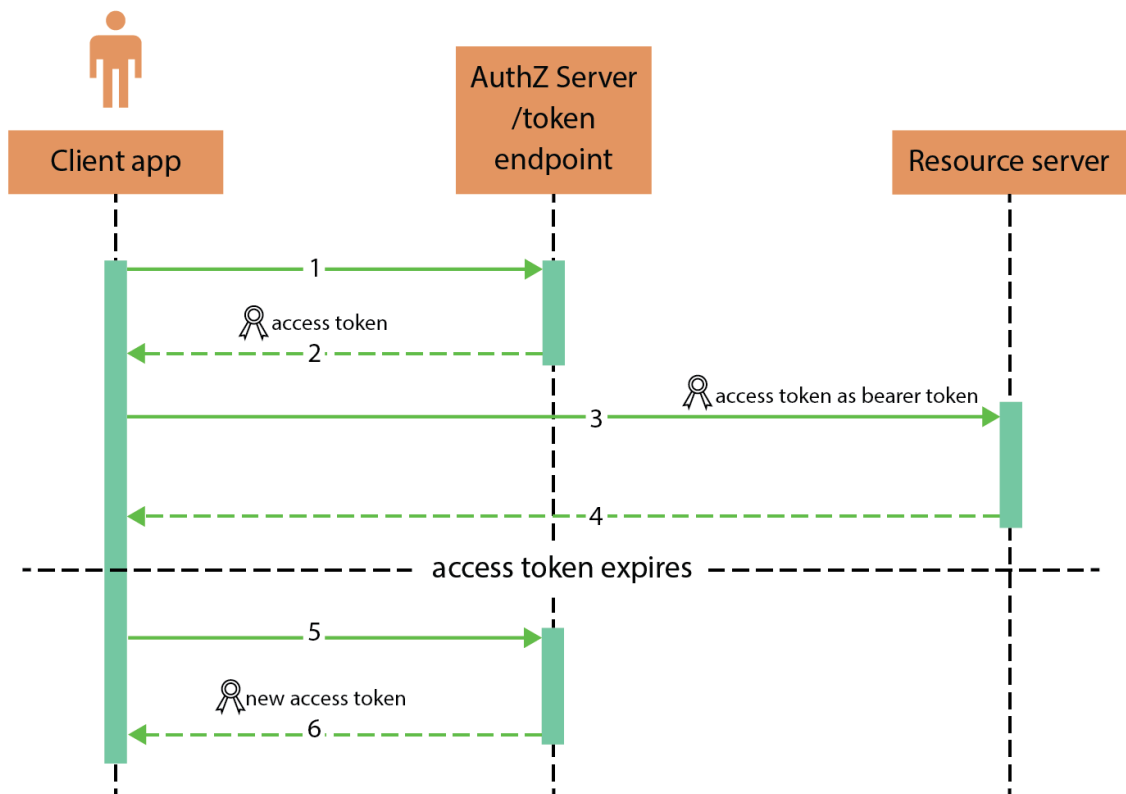


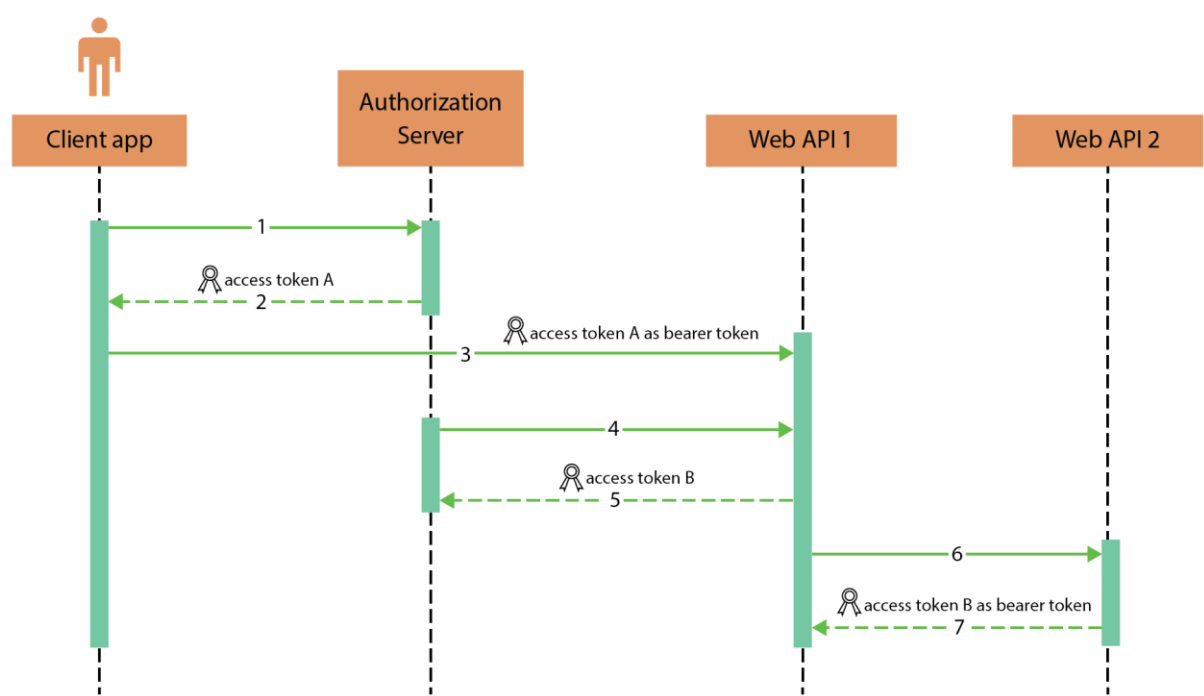
## Chapter 4: Authentication Flows

Protocol /Flow	Authorization Code Grant	Implicit	Client Credentials	Resource Owner Password Credentials	On-Behalf-Of	Hybrid
<b>OAuth 2.0</b>	YES	YES	YES	YES	YES	YES
<b>OIDC</b>	YES	YES	NO	NO	NO	YES

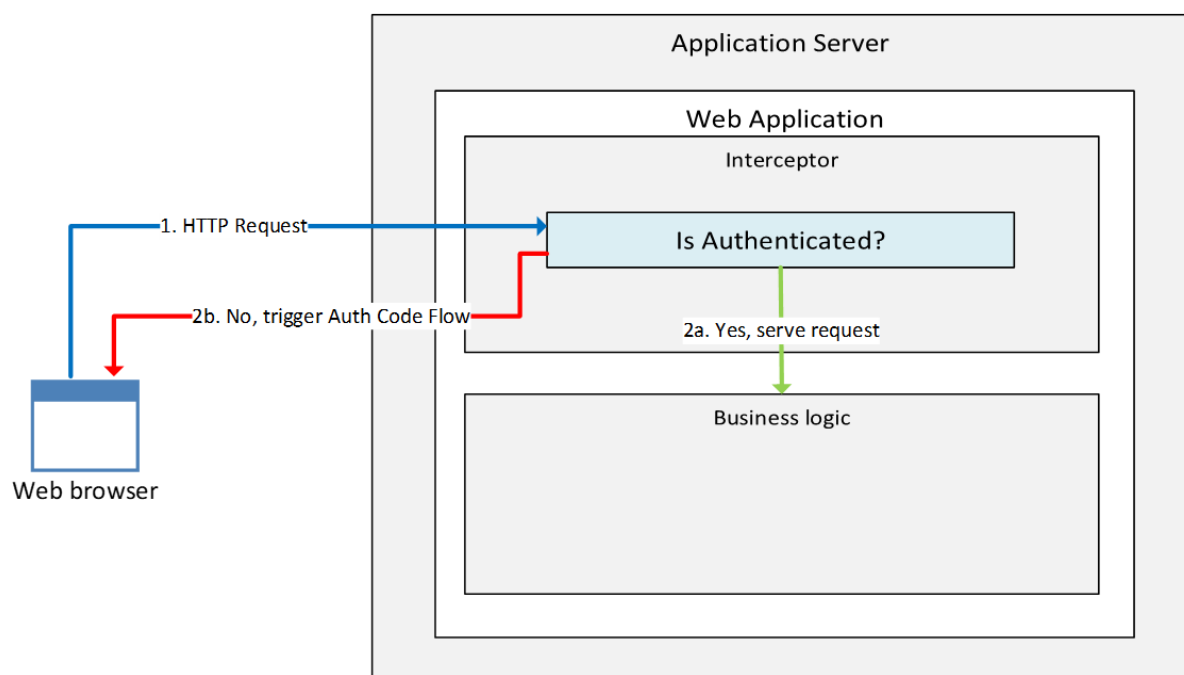
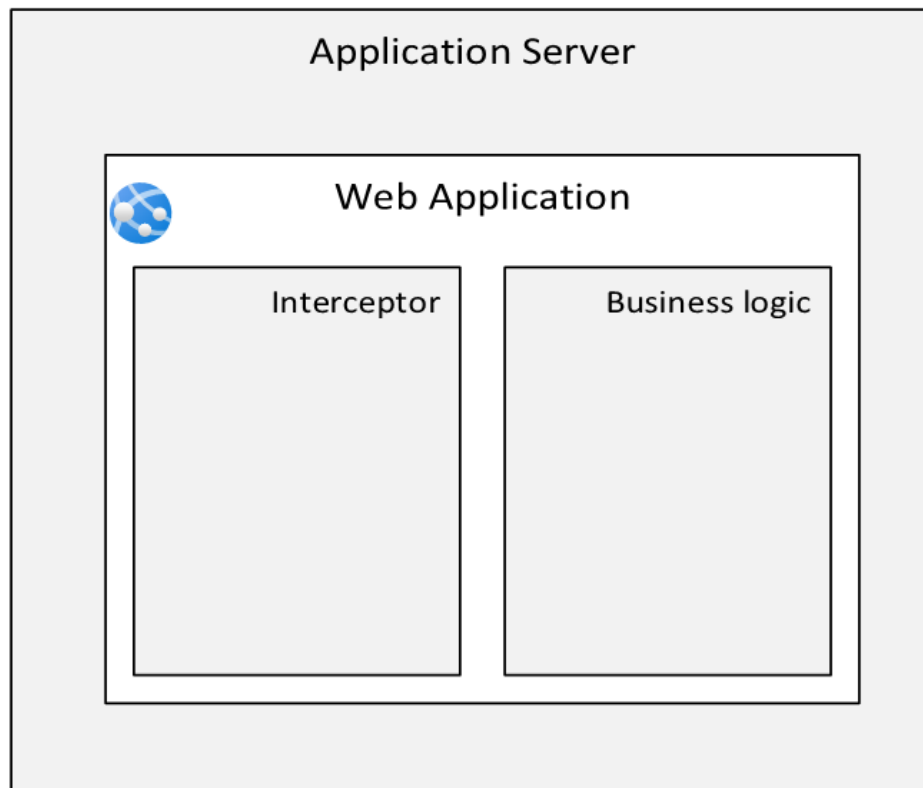


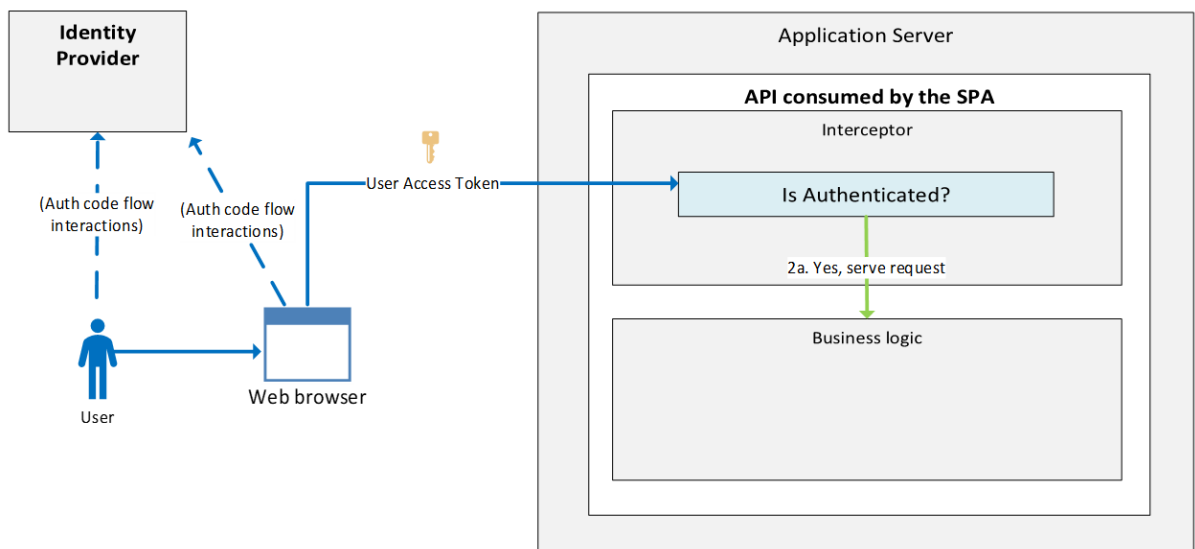
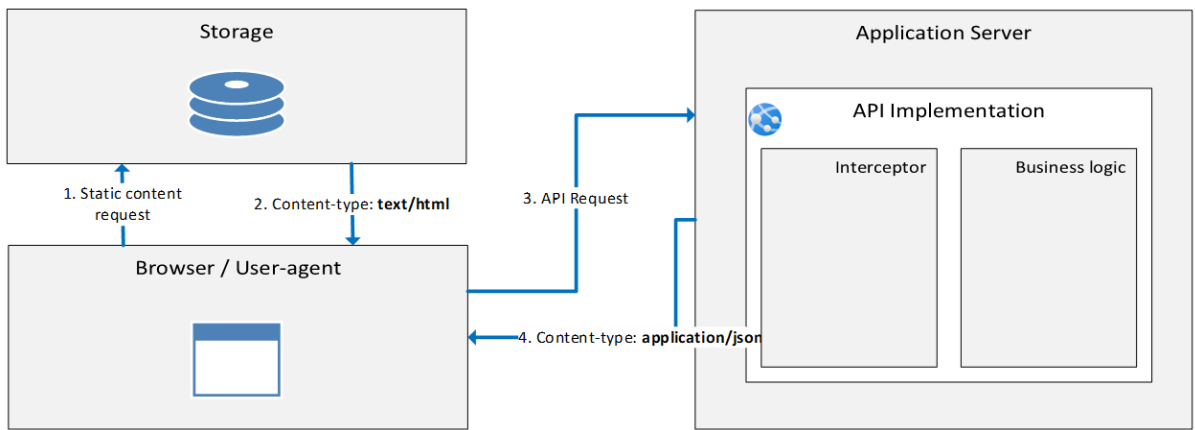
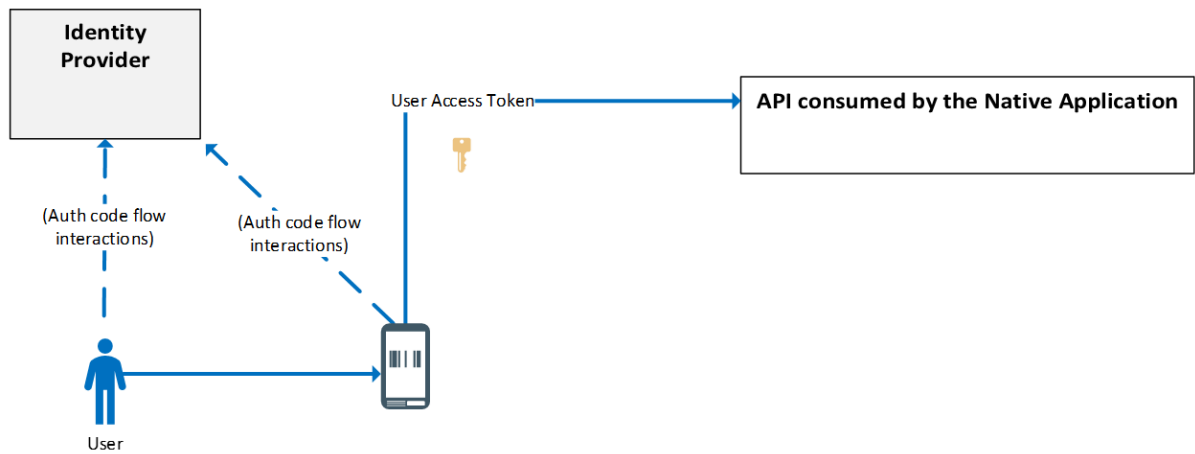




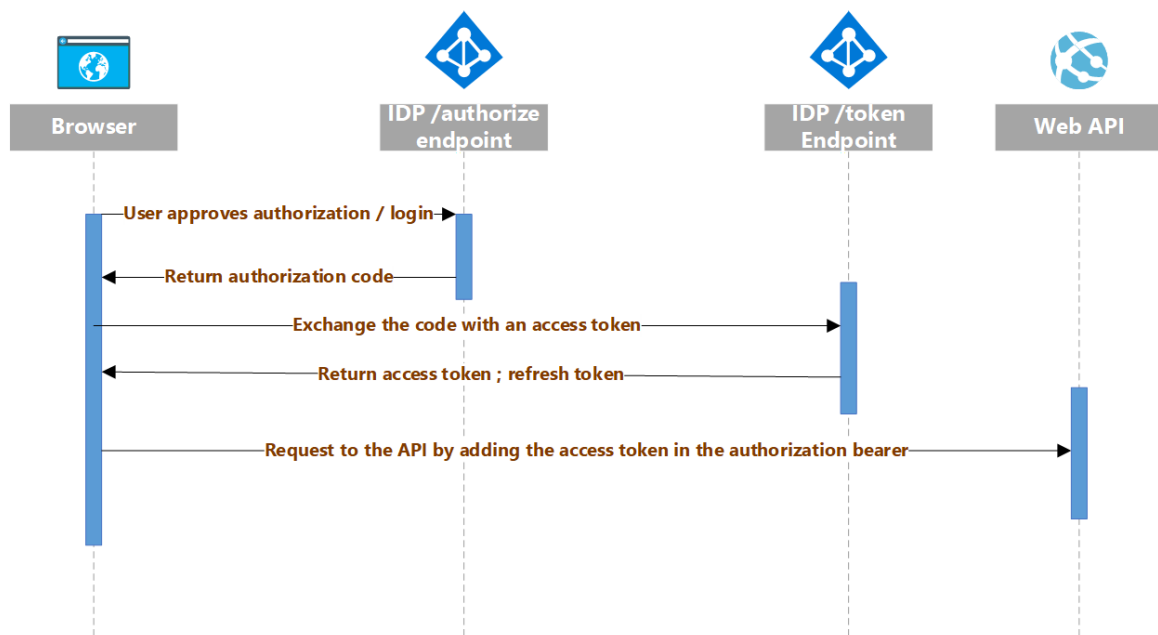
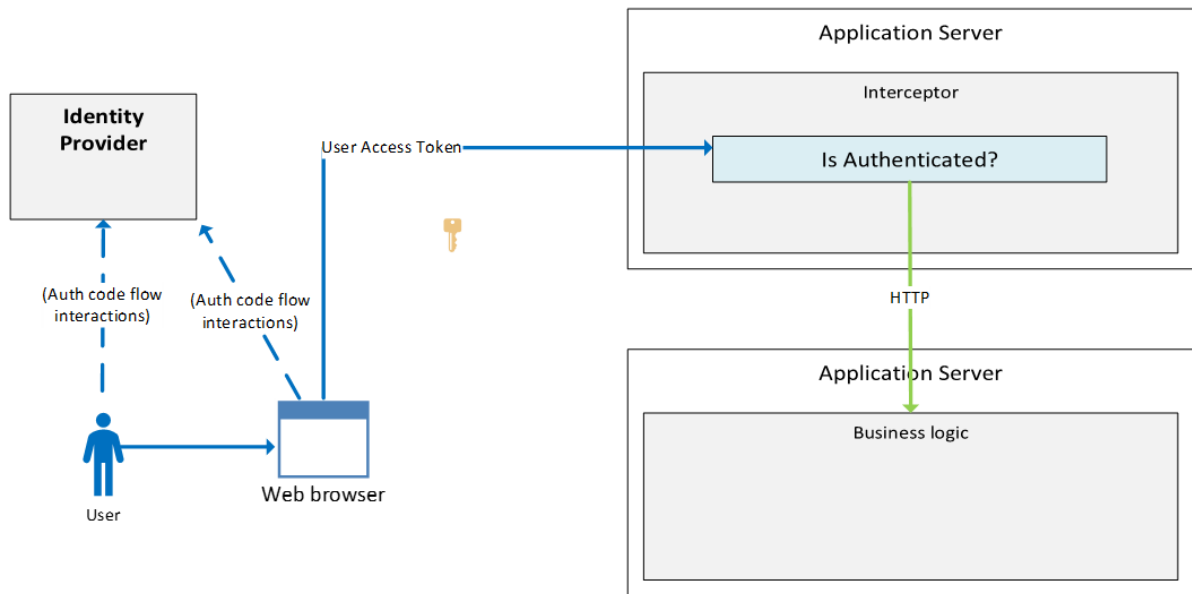


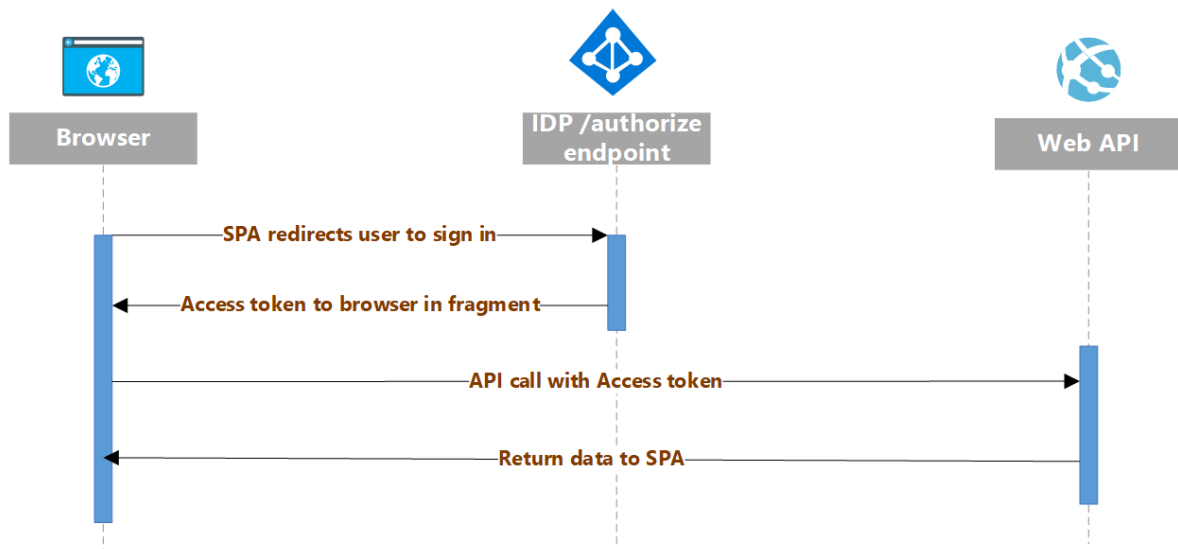
## Chapter 5: Exploring Identity Patterns



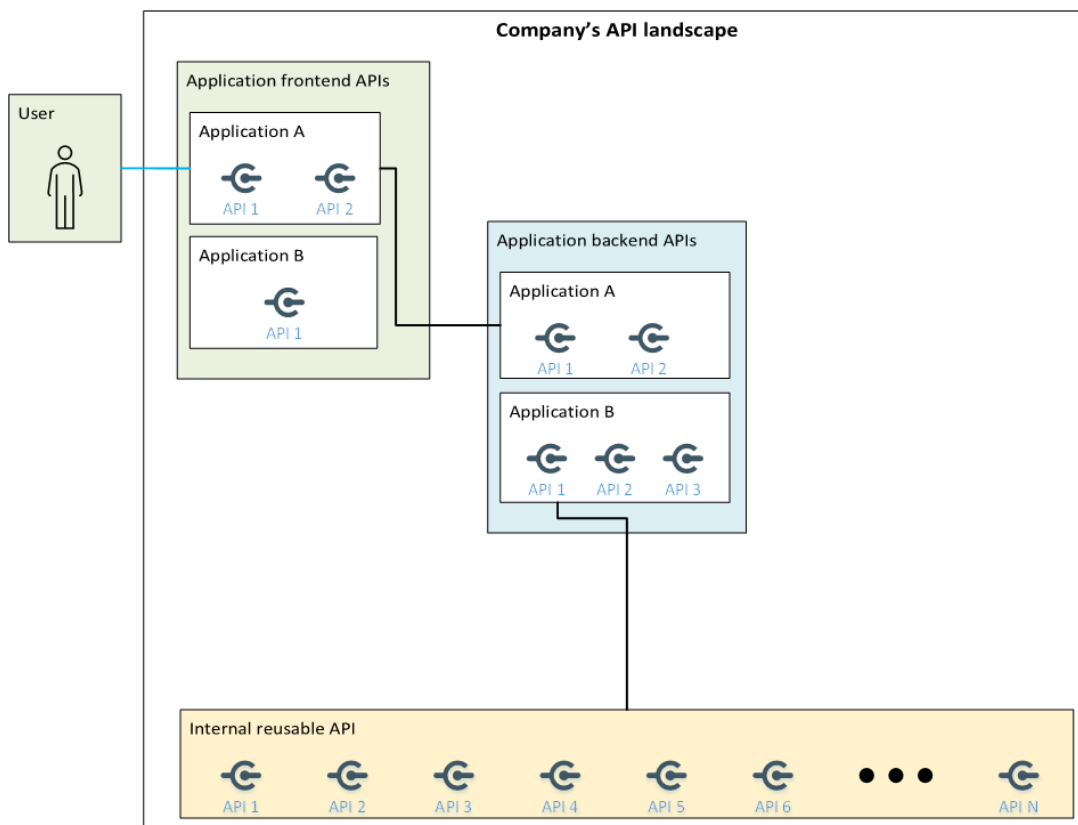
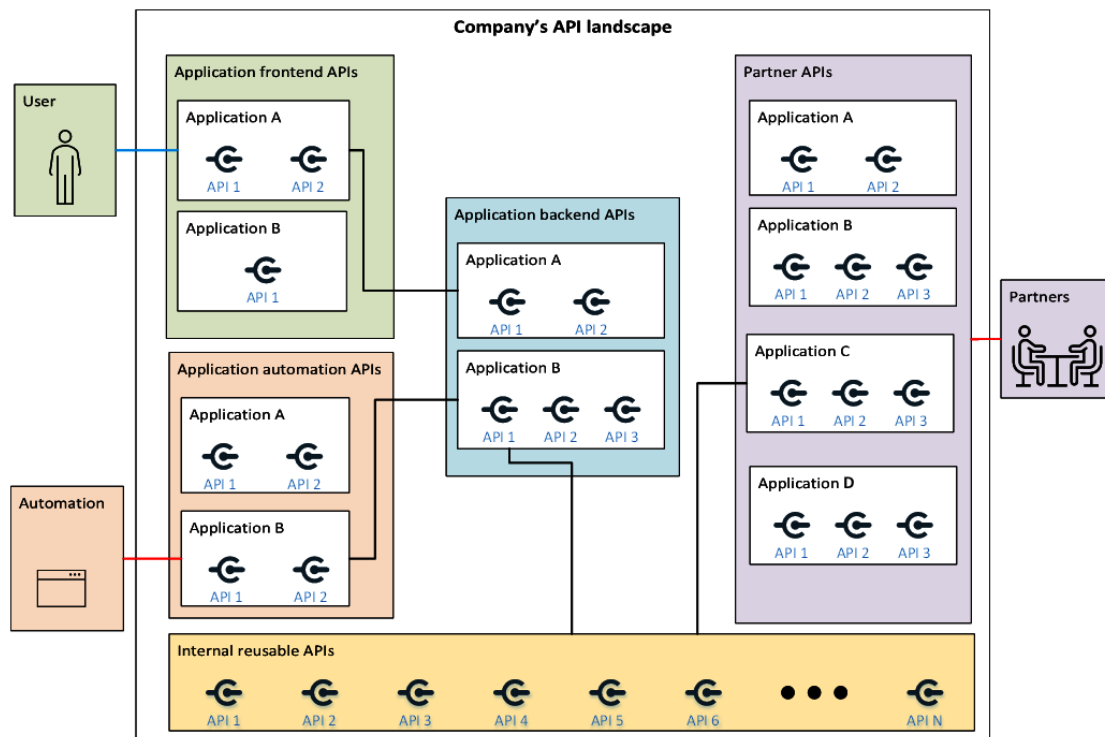


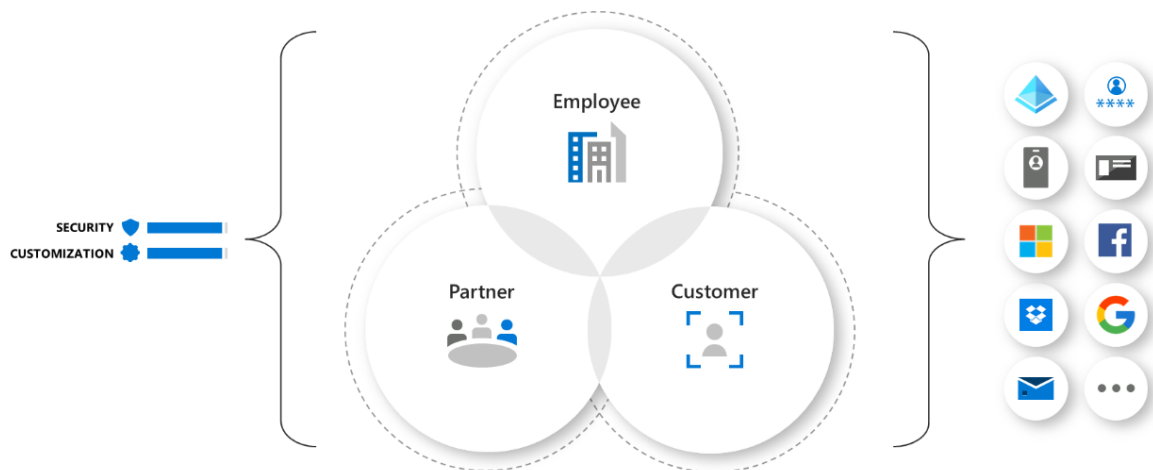
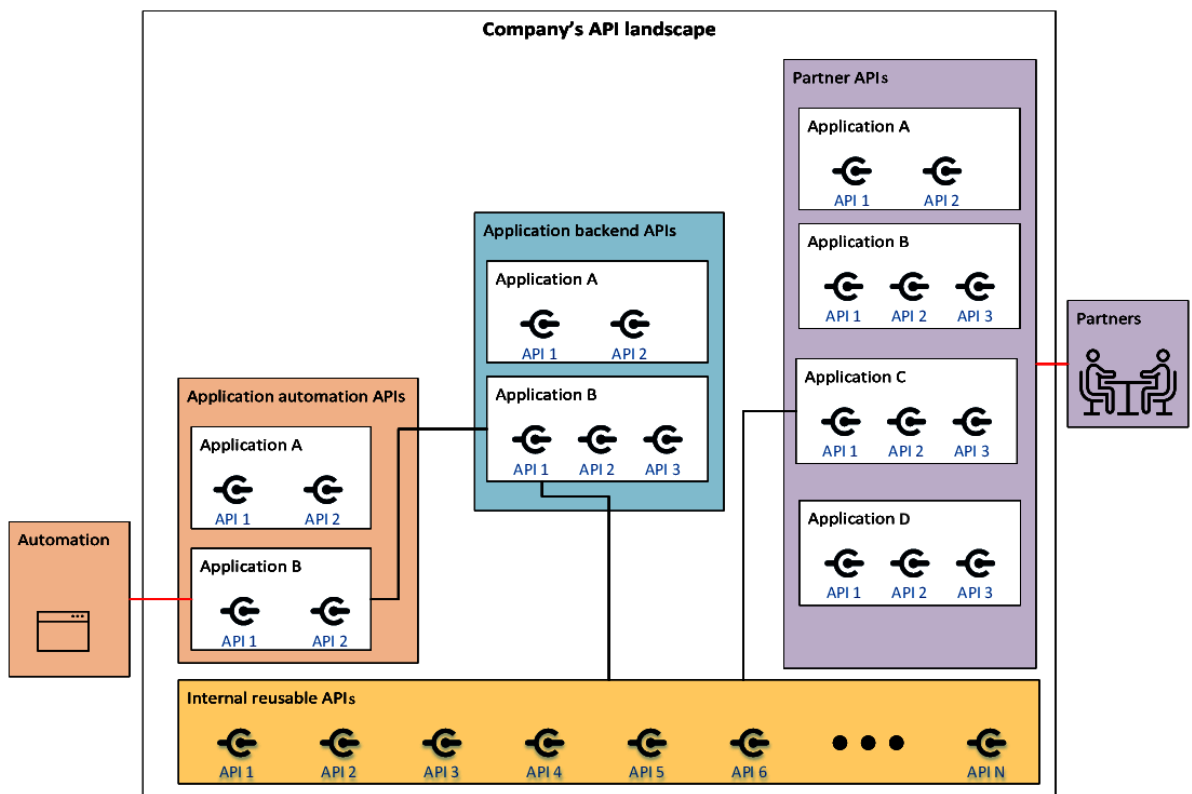


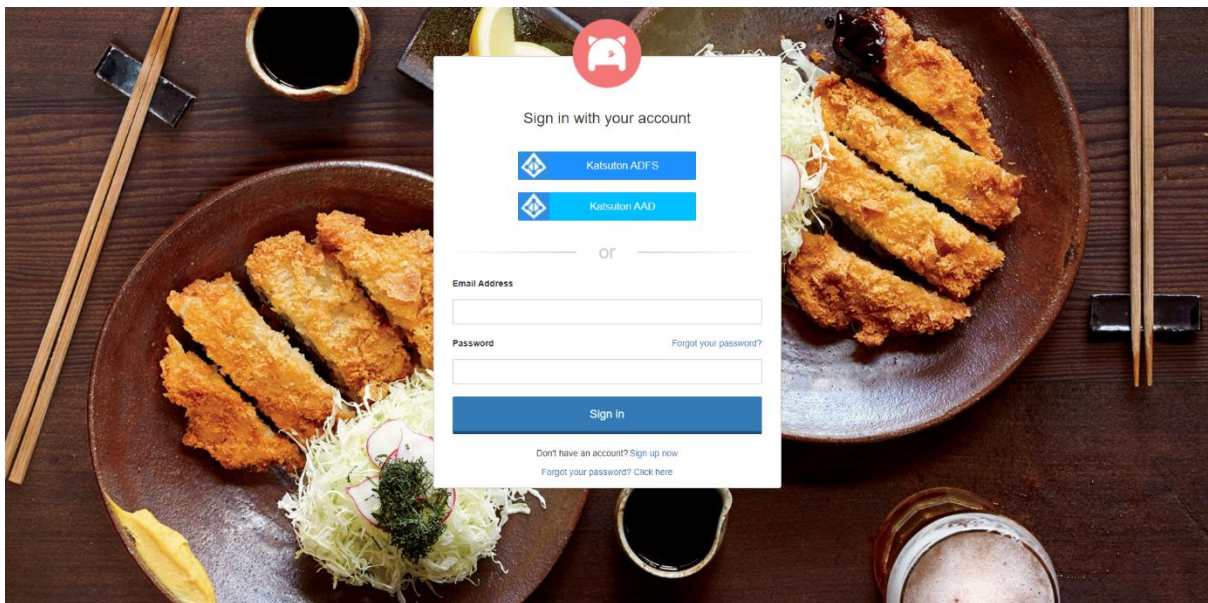
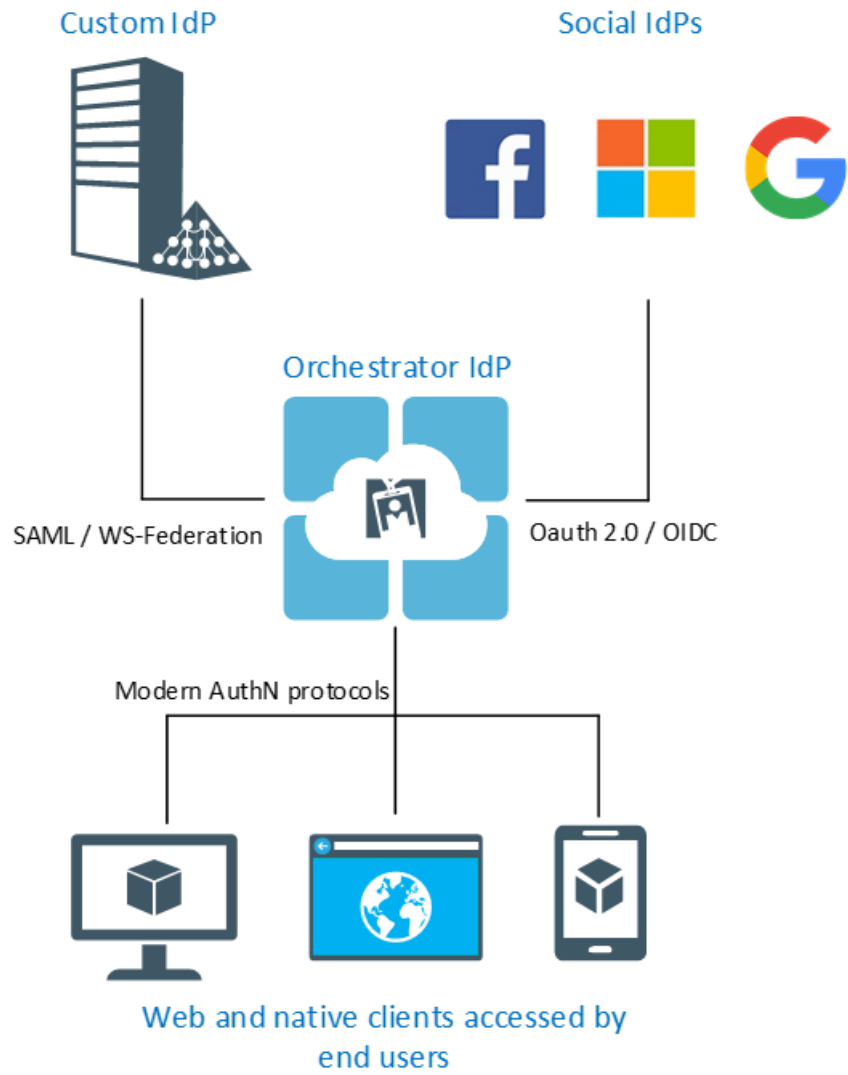


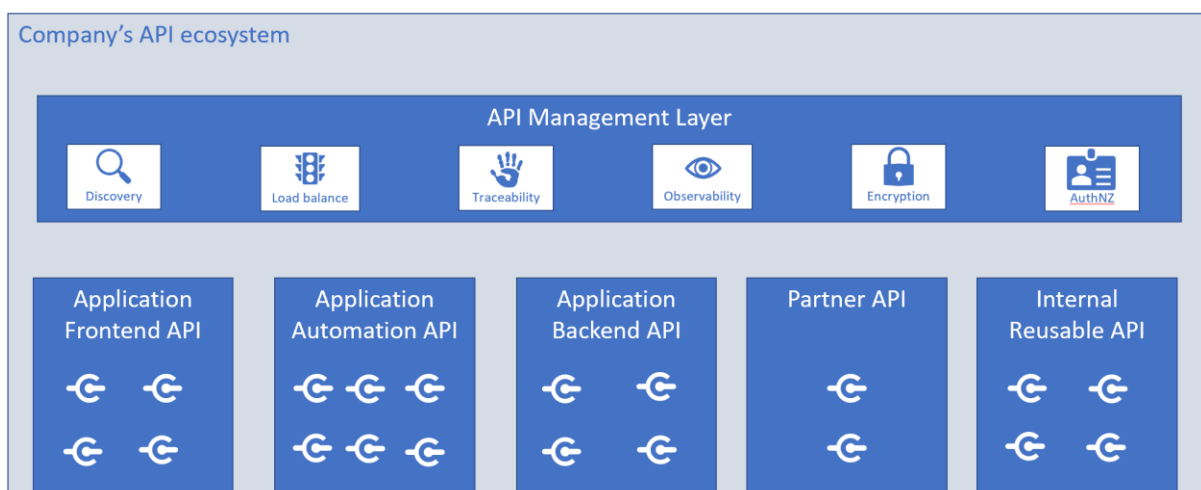
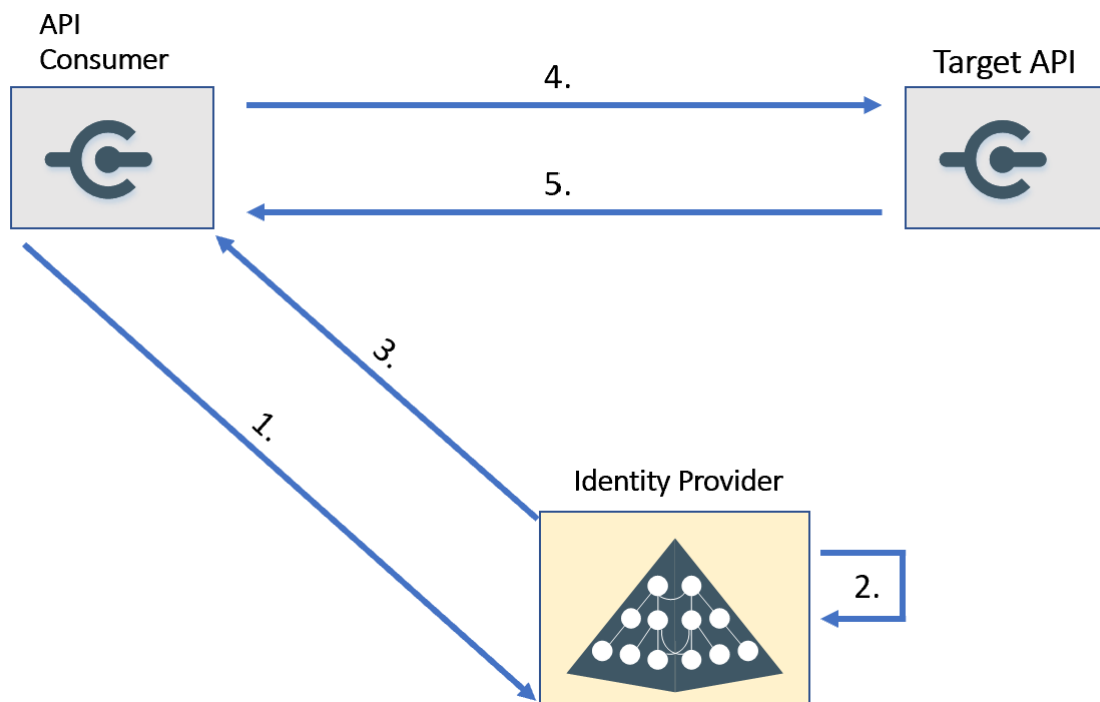


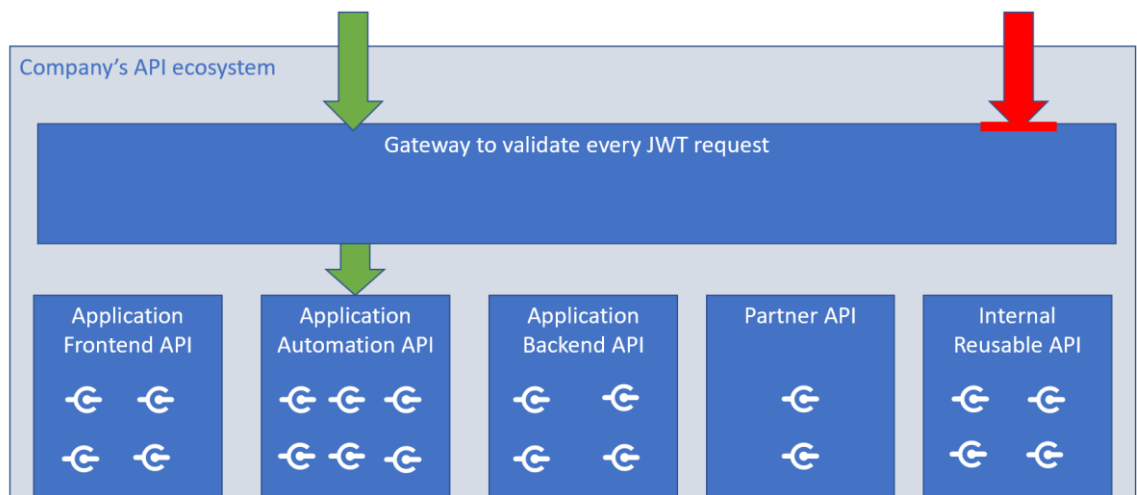
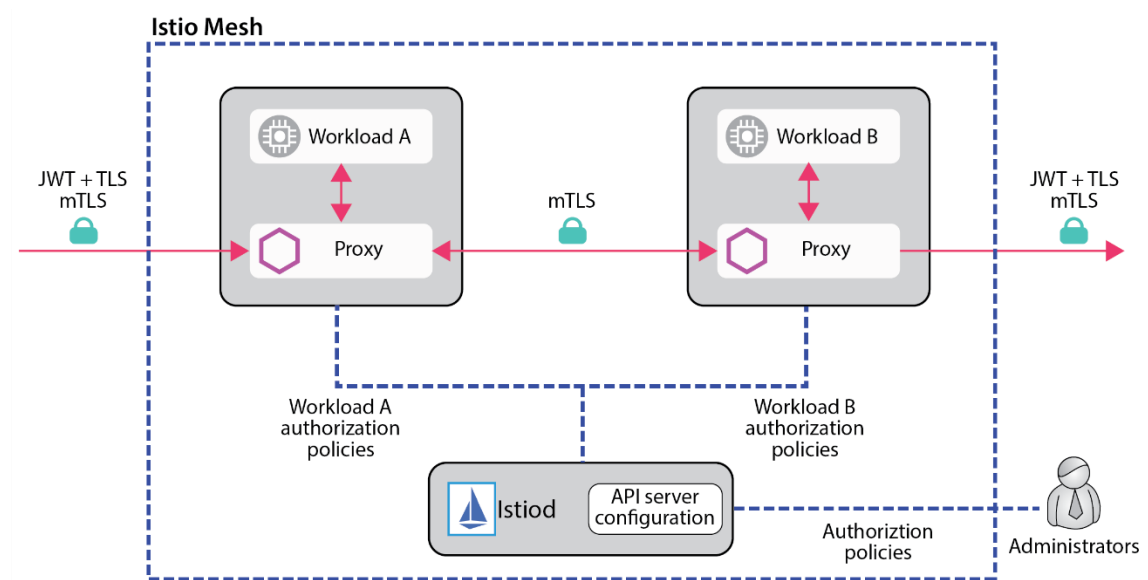
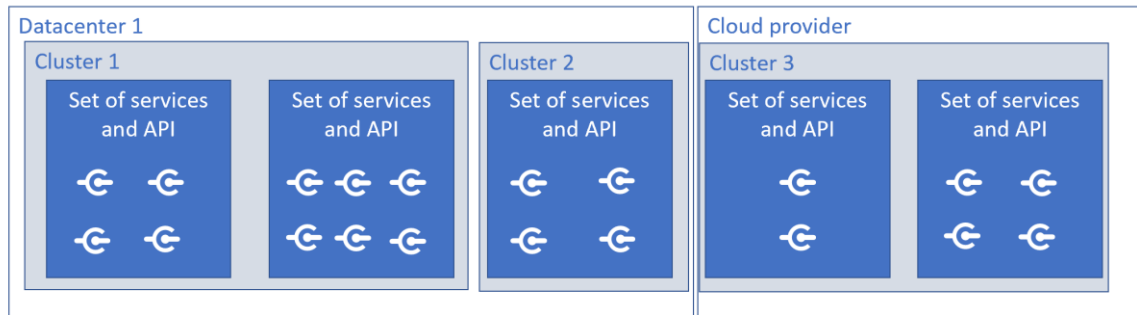
## Chapter 6: Trends in API Authentication



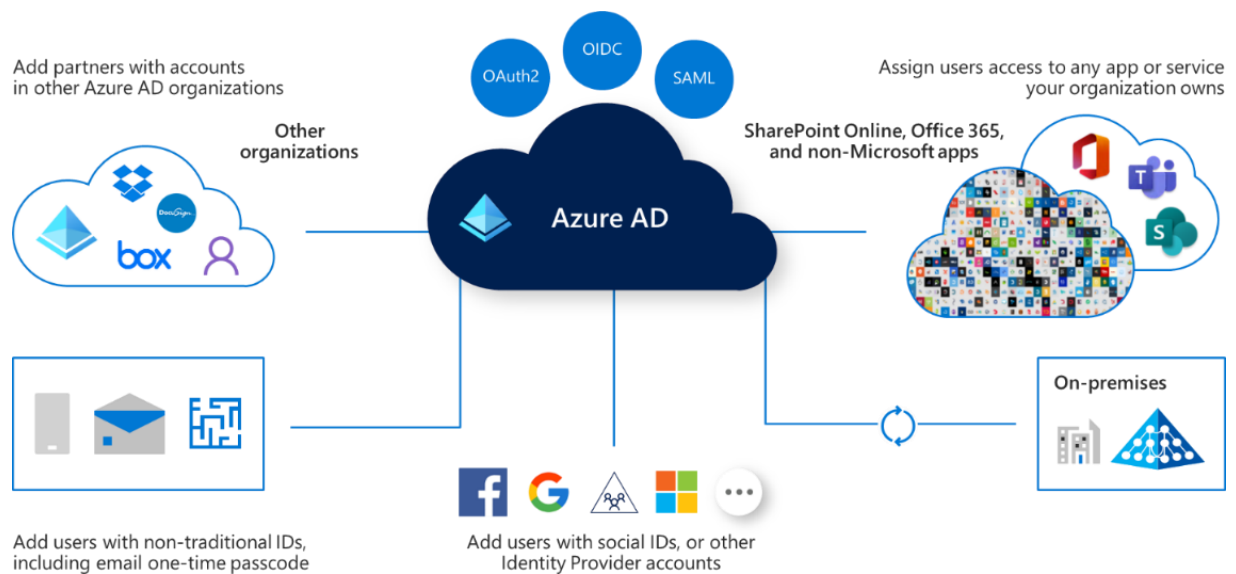




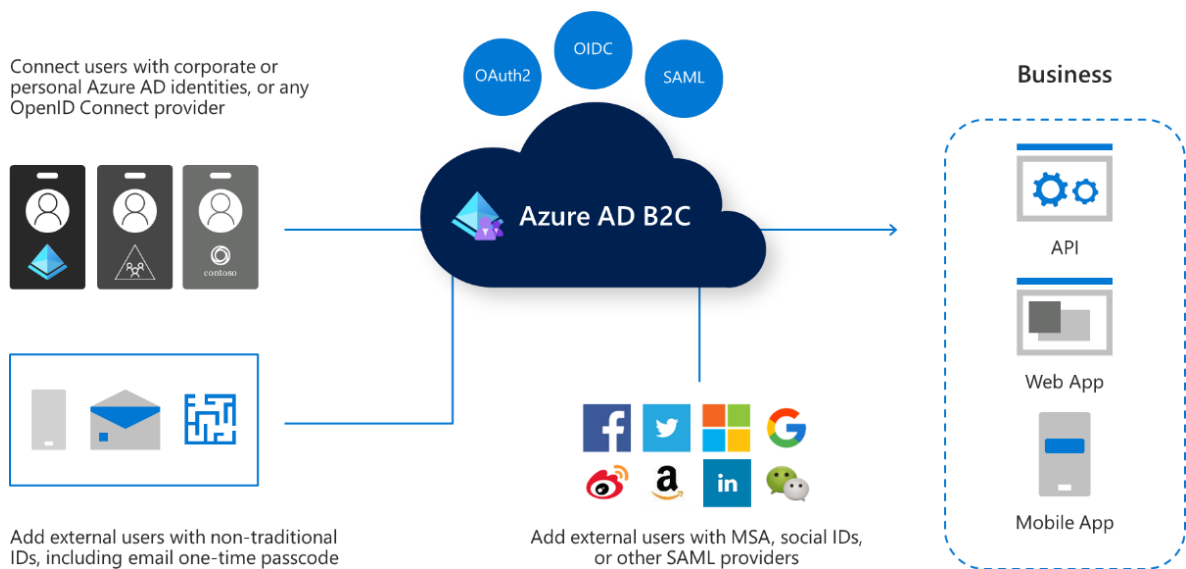
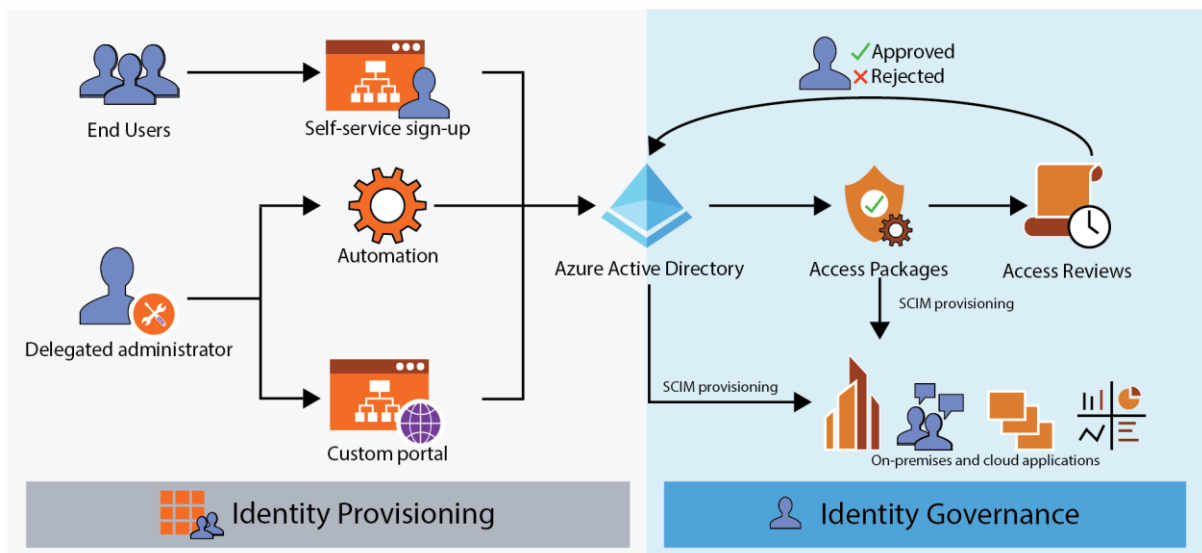


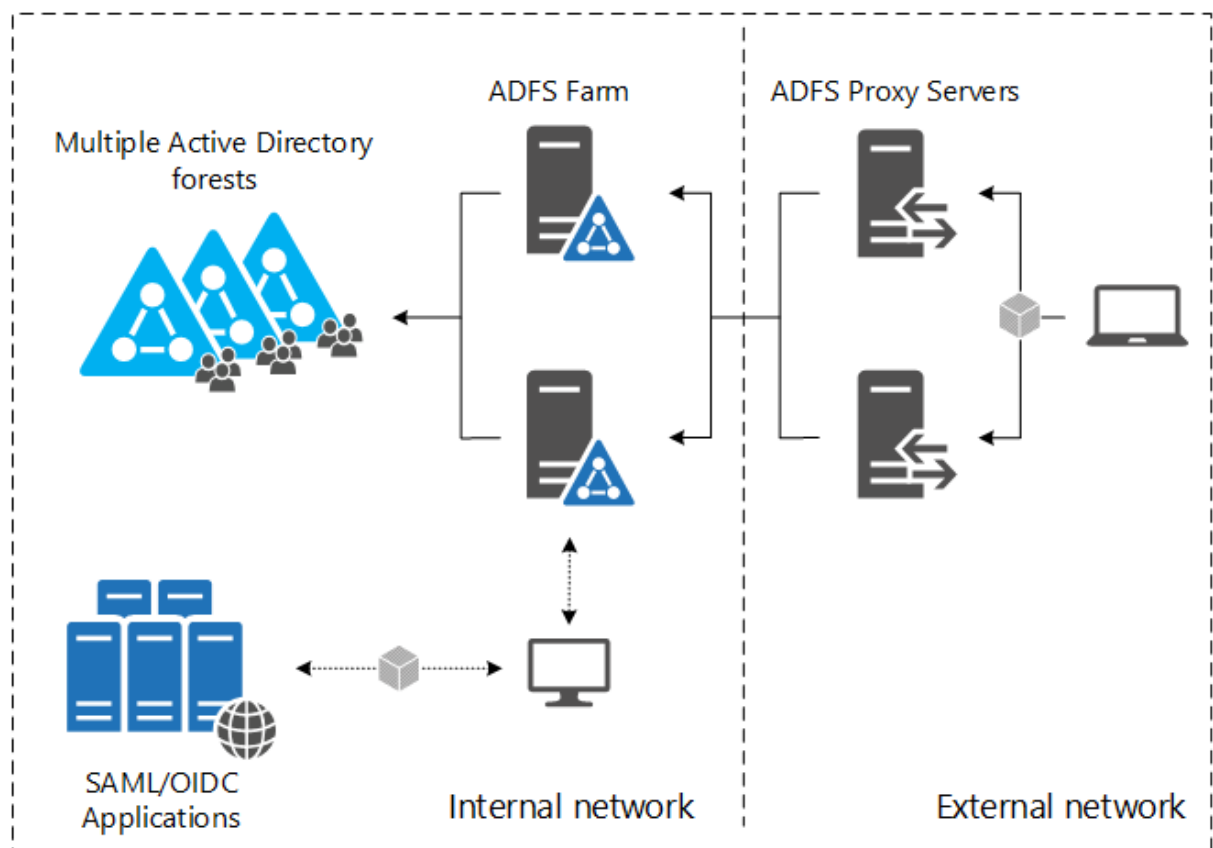
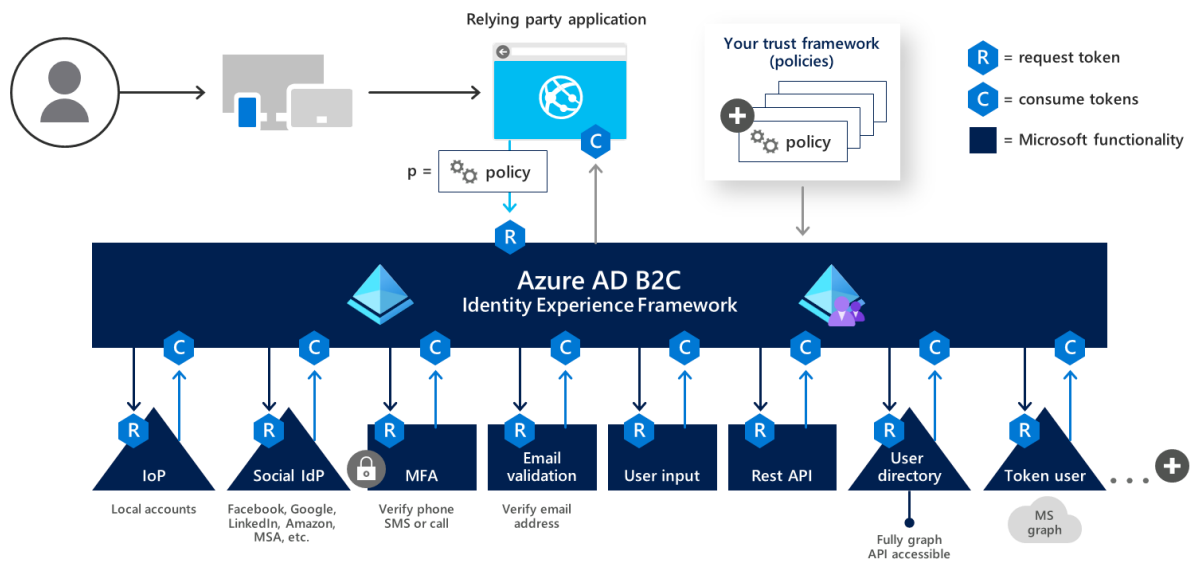


## Chapter 7: Identity Providers in the Real World

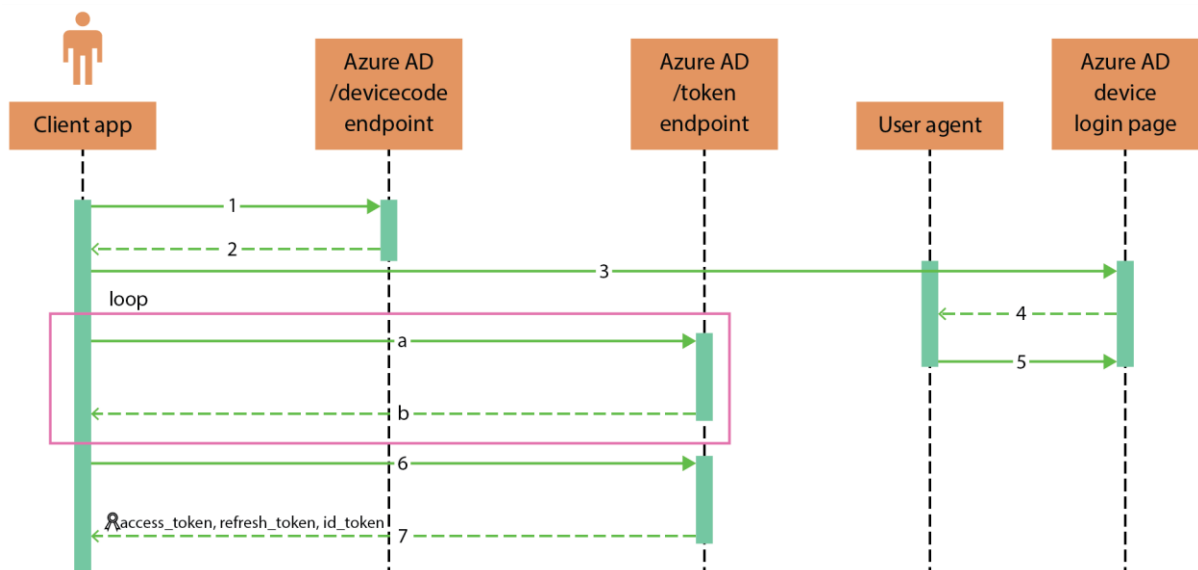
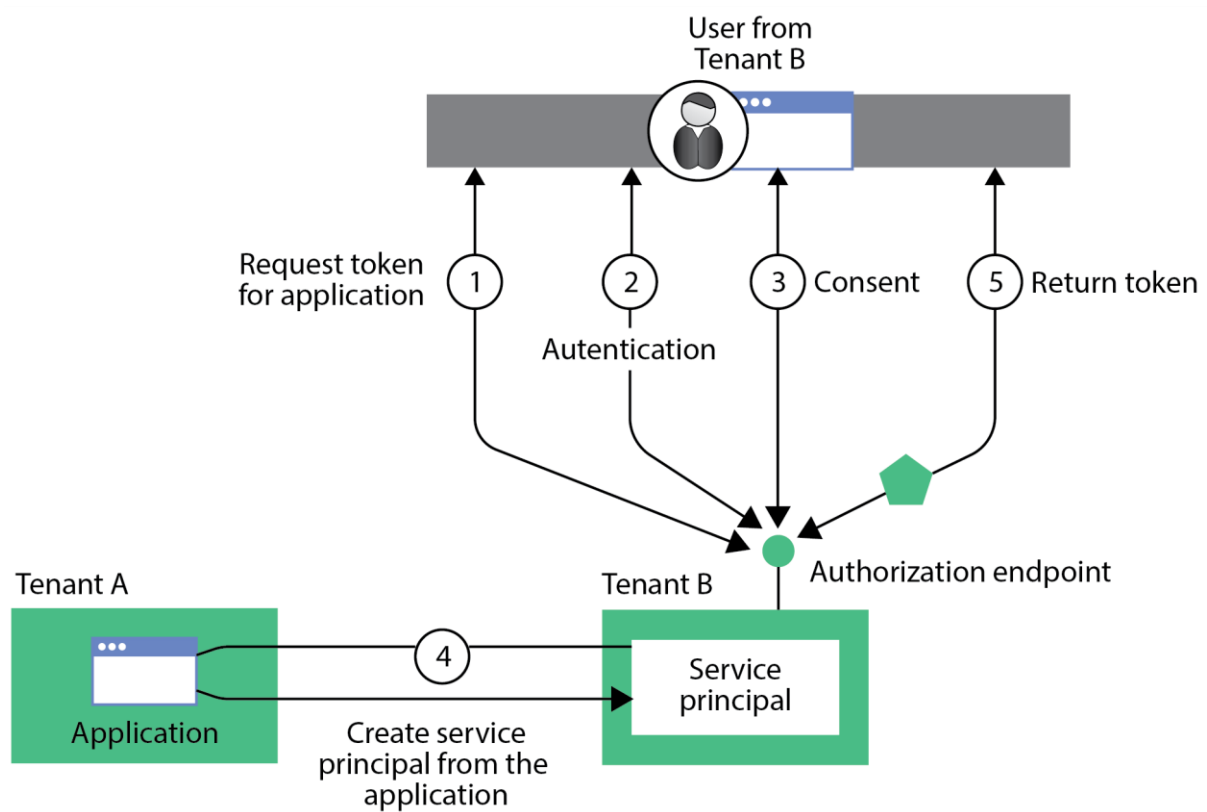


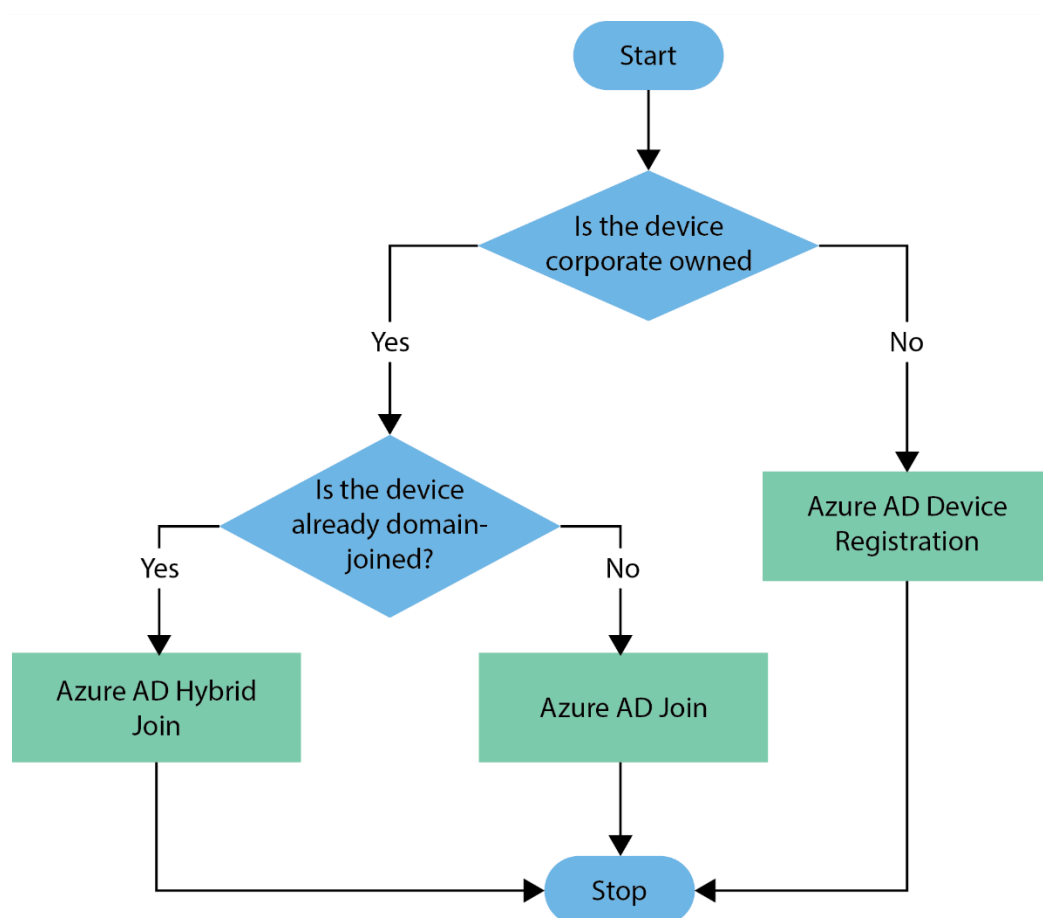
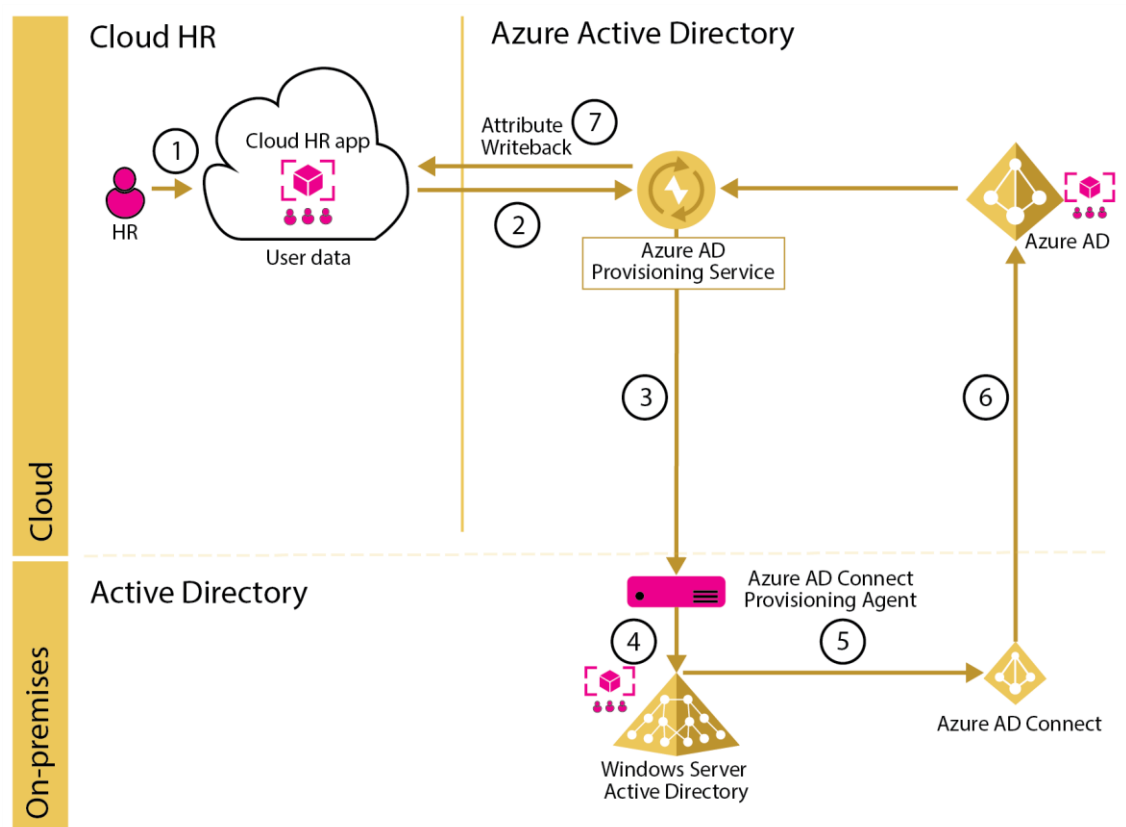


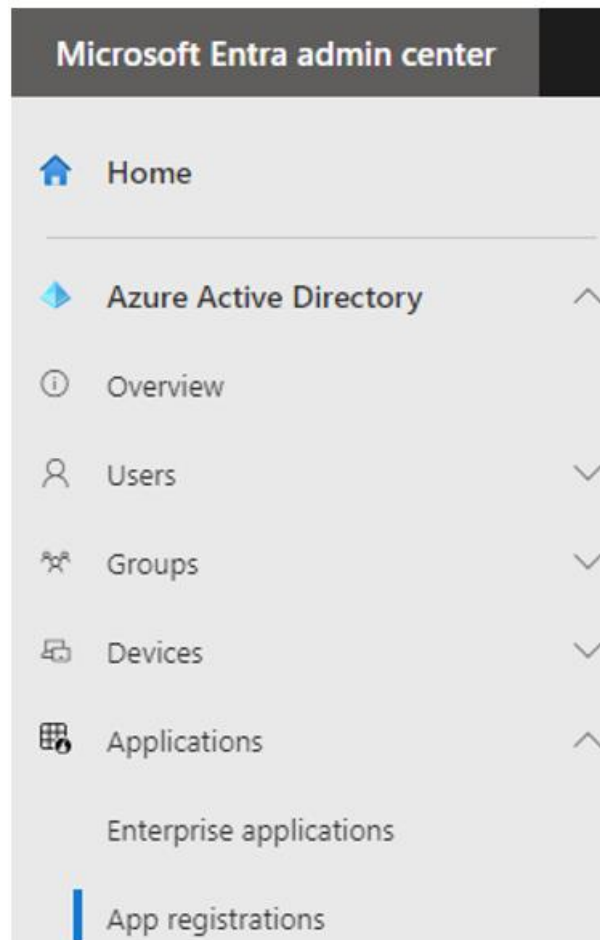




## Chapter 8: Real-World Identity Provider – A Zoom-In on Azure Active Directory







Microsoft Azure

Search resources, services, & docs

Home > KatsutonX | App registrations >

ClientApp01

📌 ...

Search (Ctrl+ /)

«

Delete

Endpoints

Preview features

Overview

Quickstart

Integration assistant

Manage

Branding & properties

Authentication

Certificates & secrets

Token configuration

API permissions

Expose an API

Essentials

Display name : [ClientApp01](#)

Application (client) ID : 5d14cb59-3aca-49a4-8b6d-134ce3502ee2

Object ID : f22b5a35-b453-44ab-a17c-5c93d3c211a3

Directory (tenant) ID : b946974b-a933-49a1-9be9-610b2f7b7b8a

Supported account types : [My organization only](#)

Get Started

Documentation

- Overview
- Quickstart
- Integration assistant

## Manage

- Branding & properties
- Authentication**
- Certificates & secrets
- Token configuration
- API permissions
- Expose an API
- App roles
- Owners
- Roles and administrators
- Manifest

## Support + Troubleshooting

- Troubleshooting
- New support request

## Platform configurations

Depending on the platform or device this application is targeting, additional configuration may be required such as redirect URIs, specific authentication settings, or fields specific to the platform.

[+ Add a platform](#)

## Web

[Quickstart](#) [Docs](#)

## Redirect URIs

The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating or signing out users. The redirect URI you send in the request to the login server should match one listed here. Also referred to as reply URLs. [Learn more about Redirect URIs and their restrictions](#)

This app has implicit grant settings enabled. If you are using any of these URIs in a SPA with MSAL.js 2.0, you should migrate URIs. [→](#)

http://localhost

[Add URI](#)

## Front-channel logout URL

This is where we send a request to have the application clear the user's session data. This is required for single sign-out to work correctly.

e.g. https://example.com/logout

## Implicit grant and hybrid flows

Request a token directly from the authorization endpoint. If the application has a single-page architecture (SPA) and doesn't use the authorization code flow, or if it invokes a web API via JavaScript, select both access tokens and ID tokens. For ASP.NET Core web apps and other web apps that use hybrid authentication, select only ID tokens. [Learn more about tokens](#).

Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) **Client secrets (1)** Federated credentials (0)

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

[+ New client secret](#)

Description	Expires	Value	Secret ID
main	12/30/2022	xDJ*****	ccdc4bf8-8fb0-4e8c-bc9e-07cb529bde7f

## Optional claims

Optional claims are used to configure additional information which is returned in one or more tokens. [Learn more](#)

[+ Add optional claim](#) [+ Add groups claim](#)

Claim	Description	Token type
email	The addressable email for this user, if the user has one	ID
email	The addressable email for this user, if the user has one	Access
family_name	Provides the last name, surname, or family name of the user as defined in the user object	ID
given_name	Provides the first or "given" name of the user, as set on the user object	ID

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

[+](#) Add a permission    [✓](#) Grant admin consent for KatsutonX

API / Permissions name	Type	Description	Admin consent requ...	Status
▼ Microsoft Graph (3)				
<a href="#">email</a>	Delegated	View users' email address	No	<a href="#">✓</a> Granted for KatsutonX    ...
<a href="#">profile</a>	Delegated	View users' basic profile	No	<a href="#">✓</a> Granted for KatsutonX    ...
<a href="#">User.Read</a>	Delegated	Sign in and read user profile	No	<a href="#">✓</a> Granted for KatsutonX    ...
▼ ServerApp01 (2)				
<a href="#">Read</a>	Delegated	Read app data	No	<a href="#">✓</a> Granted for KatsutonX    ...
<a href="#">Write</a>	Delegated	Write app data	Yes	<a href="#">✓</a> Granted for KatsutonX    ...

To view and manage permissions and user consent, try [Enterprise applications](#).

Application ID URI   

Scopes defined by this API

Define custom scopes to restrict access to data and functionality protected by the API. An application that requires access to parts of this API can request that a user or admin consent to one or more of these.

Adding a scope here creates only delegated permissions. If you are looking to create application-only scopes, use 'App roles' and define app roles assignable to application type. [Go to App roles](#).

[+](#) Add a scope

Scopes	Who can consent	Admin consent display ...	User consent display na...	State
<a href="#">api://ceff2f83-b273-470c-8d05-23d04d877528/Write</a>	Admins only	Write app data		Enabled
<a href="#">api://ceff2f83-b273-470c-8d05-23d04d877528/Read</a>	Admins and users	Read app data		Enabled

Authorized client applications

Authorizing a client application indicates that this API trusts the application and users should not be asked to consent when the client calls this API.

[+](#) Add a client application

Client Id	Scopes
No client applications have been authorized	

# Endpoints



OAuth 2.0 authorization endpoint (v2)

<https://login.microsoftonline.com/b946974b-a933-49a1-9be9-610b2f7b7b8a/oauth2/v2.0/authorize>



OAuth 2.0 token endpoint (v2)

<https://login.microsoftonline.com/b946974b-a933-49a1-9be9-610b2f7b7b8a/oauth2/v2.0/token>



OAuth 2.0 authorization endpoint (v1)

<https://login.microsoftonline.com/b946974b-a933-49a1-9be9-610b2f7b7b8a/oauth2/authorize>



OAuth 2.0 token endpoint (v1)

<https://login.microsoftonline.com/b946974b-a933-49a1-9be9-610b2f7b7b8a/oauth2/token>



OpenID Connect metadata document

<https://login.microsoftonline.com/b946974b-a933-49a1-9be9-610b2f7b7b8a/v2.0/.well-known/openid-configuration>



Microsoft Graph API endpoint

<https://graph.microsoft.com>



Federation metadata document

<https://login.microsoftonline.com/b946974b-a933-49a1-9be9-610b2f7b7b8a/federationmetadata/2007-06/federationmetadata.xml>



WS-Federation sign-on endpoint

<https://login.microsoftonline.com/b946974b-a933-49a1-9be9-610b2f7b7b8a/wsfed>



SAML-P sign-on endpoint

<https://login.microsoftonline.com/b946974b-a933-49a1-9be9-610b2f7b7b8a/saml2>



SAML-P sign-out endpoint

<https://login.microsoftonline.com/b946974b-a933-49a1-9be9-610b2f7b7b8a/saml2>



## Permissions

Applications can be granted permissions to your organization and its data by three methods: an admin consents to the application for all users, a user grants consent to the application, or an admin integrating an application to the application. [Learn more](#).

To request additional permissions for this application, use the [application registration](#).

As an administrator you can grant consent on behalf of all users in this tenant, ensuring that end users will not be required to consent when using the application. Click the button below to grant admin consent.

[Grant admin consent for KatsutonX](#)

[Admin consent](#) [User consent](#)

Search permissions						
API Name	↑↓	Claim value	↑↓	Permission	↑↓	Type
Microsoft Graph						
Microsoft Graph		email		View users' email address		Delegated
Microsoft Graph		profile		View users' basic profile		Delegated
Microsoft Graph		User.Read		Sign in and read user profile		Delegated
ServerApp01						
ServerApp01		Write		Write app data		Delegated
ServerApp01		Read		Read app data		Delegated



# New ...

## Conditional Access policy

Control access based on Conditional Access policy to bring signals together, to make decisions, and enforce organizational policies.

[Learn more](#)

Name \*

Enable MFA for Engineers



### Assignments

Users or workload identities ⓘ

[Specific users included](#)

Cloud apps or actions ⓘ

[All cloud apps](#)

Conditions ⓘ

[0 conditions selected](#)

### Access controls

Grant ⓘ

[1 control selected](#)

Session ⓘ

[0 controls selected](#)

Control access based on who the policy will apply to, such as users and groups, workload identities, directory roles, or external guests.

[Learn more](#)

What does this policy apply to?

Users and groups



**Include**

Exclude

☐ None

☐ All users

☒ Select users and groups

☐ All guest and external users ⓘ

☐ Directory roles ⓘ

☒ Users and groups

Select

[1 group](#)

EN

Engineers



Enable policy

Report-only

**On**

Off

Create



## External Identities | External collaboration settings

KatsutonX - Azure Active Directory

Search (Ctrl+/)



Save



Discard

Overview

Cross-tenant access settings

All identity providers

External collaboration settings

Diagnose and solve problems

### Self-service sign up

Custom user attributes

All API connectors

User flows

### Subscriptions

Linked subscriptions

### Lifecycle management

Terms of use

Access reviews

### Troubleshooting + Support

New support request

Email one-time passcode for guests has been moved to All Identity Providers. →

#### Guest user access

Guest user access restrictions ⓘ

[Learn more](#)

- ☐ Guest users have the same access as members (most inclusive)
- ☒ Guest users have limited access to properties and memberships of directory objects
- ☐ Guest user access is restricted to properties and memberships of their own directory objects (most restrictive)

#### Guest invite settings

Guest invite restrictions ⓘ

[Learn more](#)

- ☐ Anyone in the organization can invite guest users including guests and non-admins (most inclusive)
- ☐ Member users and users assigned to specific admin roles can invite guest users including guests with member permissions
- ☒ Only users assigned to specific admin roles can invite guest users
- ☐ No one in the organization can invite guest users including admins (most restrictive)

Enable guest self-service sign up via user flows ⓘ

[Learn more](#)

☒ Yes ☐ No

#### Collaboration restrictions

- ☒ Allow invitations to be sent to any domain (most inclusive)
- ☐ Deny invitations to the specified domains
- ☐ Allow invitations only to the specified domains (most restrictive)



## Chapter 9: Exploring Real-World Scenarios

