

Transcribe – Authentication Setup

Summary

This document describes authentication setup for Transcribe API and SPA application (frontend).

Authentication uses OpenID Connect on the Microsoft identity platform (Entra ID). Protocol used is auth code flow with Proof Key for Code Exchange (PKCE).

References:

<https://learn.microsoft.com/en-us/entra/identity-platform/v2-oauth2-auth-code-flow>
<https://learn.microsoft.com/en-us/entra/identity-platform/quickstart-single-page-app-react-sign-in>
<https://learn.microsoft.com/en-us/entra/identity-platform/quickstart-web-api-aspnet-core-protect-api>

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1 App Registrations (Entra ID)

1.1 App Registration – API

1.1.1 Create app registration

Entra ID / App registrations / New registration

- Name: transcribe-api-dev-ar
- Select “... Single tenant”

Register an application

×

*** Name**

The user-facing display name for this application (this can be changed later).

✓

Supported account types

Who can use this application or access this API?

☒ Accounts in this organizational directory ((TEST) Linköpings universitet only - Single tenant)

☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant)

☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)

☐ Personal Microsoft accounts only

[Help me choose...](#)

Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.

Select a platform ▼

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

The screenshot displays the Azure portal interface for an application named 'transcribe-api-dev-ar'. The left-hand navigation pane includes sections for 'Overview' (selected), 'Quickstart', 'Integration assistant', 'Manage' (with sub-items like Branding & properties, Authentication, Certificates & secrets, Token configuration, API permissions, Expose an API, App roles, Owners, Roles and administrators, and Manifest), and 'Support + Troubleshooting' (with sub-items like Troubleshooting and New support request). The main content area features a top bar with a search box and action buttons for 'Delete', 'Endpoints', and 'Preview features'. Below this is a feedback banner. The 'Essentials' section lists application details: Display name (transcribe-api-dev-ar), Application (client) ID (ed7b6...), Object ID (39b6a...), Directory (tenant) ID (fc2bc3...), Supported account types (My organization only), Client credentials (Add a certificate or secret), Redirect URIs (1 web, 0 spa, 0 public client), Application ID URI (api://ed7b6a...), and Managed application in local directory (transcribe-api-dev-ar). At the bottom of the main area are links for 'Get Started' and 'Documentation'. A bottom banner provides information about the deprecation of Azure Active Directory Authentication Library (ADAL) and Azure Active Directory Graph, advising users to upgrade to Microsoft Authentication Library (MSAL) and Microsoft Graph.

transcribe-api-dev-ar

Search

Delete Endpoints Preview features

Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD for developer).

Essentials

Display name : transcribe-api-dev-ar

Application (client) ID : ed7b6...

Object ID : 39b6a...

Directory (tenant) ID : fc2bc3...

Supported account types : My organization only

Client credentials : Add a certificate or secret

Redirect URIs : 1 web, 0 spa, 0 public client

Application ID URI : api://ed7b6a...

Managed application in local directory : transcribe-api-dev-ar

Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure Active Directory Graph. We will continue to provide technical support and security updates but we will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)

Get Started Documentation

1.1.2 Authentication platforms

Authentication / Add a platform (for API)

- Choose "Web"
- Redirect uri: <https://localhost:44331/>
- Select "ID Tokens"

Authentication / App a platform (for swagger)

- Choose "Single-Page Application"
- Redirect uri: <https://localhost:44331/swagger/oauth2-redirect.html>
- Select "ID Tokens"

The screenshot shows the 'Configure Web' page in the Azure Portal. The left sidebar contains navigation links: Home, Overview, Quickstart, Integration assistant, Manage (Branding & properties, Authentication, Certificates & secrets, Token configuration, API permissions, Expose an API, App roles, Owners, Roles and administrators, Manifest), and Support + Troubleshooting (Troubleshooting, New support request). The main content area is titled 'Configure Web' and includes a 'Quickstart' link and a 'Docs' link. The 'Redirect URIs' section has a text input field containing 'https://localhost:44331/' with a green checkmark. The 'Front-channel logout URL' section has a text input field containing 'e.g. https://example.com/logout'. The 'Implicit grant and hybrid flows' section has a checkbox for 'Access tokens (used for implicit flows)' and a checked checkbox for 'ID tokens (used for implicit and hybrid flows)'. The 'Advanced settings' section has a checkbox for 'Allow public client' and a list of options: 'App collaboration', 'No key', and 'SSO for'. The 'App instance' section has a checkbox for 'Configure the app'. At the bottom, there are three buttons: 'Save', 'Configure', and 'Cancel'.

1.1.3 Expose an API (access_as_user)

Expose an API / Add a scope

- Application ID URI: api://<clientid>, OK
- Scope name: access_as_user
- Who can consent: Admins and users
(set consent texts as below)

The screenshot shows the 'Add a scope' dialog in the Azure portal. The dialog is titled 'Add a scope' and has a close button (X) in the top right corner. The background shows the 'transcribe-api-dev-ar | Expose an API' page with a sidebar menu on the left containing options like 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, and New support request. The main content area of the background page shows 'Application ID URI' as 'api://ed7b6a.../access_as_user' and 'Scopes defined' as 'No scopes have been defined yet'. The 'Add a scope' dialog has the following fields:

- Scope name *** (required): 'access_as_user' (with a green checkmark icon).
- Who can consent?** (required): 'Admins and users' (selected) and 'Admins only' (available).
- Admin consent display name *** (required): 'Access API for transcription' (with a green checkmark icon).
- Admin consent description *** (required): 'Allows the app to access API for transcription as the signed-in user'.
- User consent display name** (optional): 'Access API for transcription' (with a green checkmark icon).
- User consent description** (optional): 'Allows the app to access API for transcription on your behalf'.
- State** (optional): 'Enabled' (selected) and 'Disabled' (available).

At the bottom of the dialog, there are two buttons: 'Add scope' (highlighted in blue) and 'Cancel'.

1.2 App registration – Frontend

1.2.1 Create app registration

Entra ID / App registrations / New registration

- Name: transcribe-frontend-dev-ar
- Select “... Single tenant”

Register an application

✕

*** Name**

The user-facing display name for this application (this can be changed later).

transcribe-frontend-dev-ar ✓

Supported account types

Who can use this application or access this API?

☒ Accounts in this organizational directory only ((TEST) Linköpings universitet only - Single tenant)

☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant)

☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)

☐ Personal Microsoft accounts only

[Help me choose...](#)

Redirect URI (optional)

We'll return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios.




Select a platform ▼




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


Register an app you're working on here. Integrate gallery apps and other apps from outside your organization by adding from [Enterprise applications](#).


By proceeding, you agree to the [Microsoft Platform Policies](#) 📄


Register

 **transcribe-frontend-dev-ar**  ... 


<<  Delete  Endpoints  Preview features


 Overview


 Quickstart


 Integration assistant


Manage


 Branding & properties


 Authentication


 Certificates & secrets


 Token configuration


 API permissions


 Expose an API

 App roles

 Owners

 Roles and administrators

 Manifest

 Essentials

Display name : [transcribe-frontend-dev-ar](#)

Application (client) ID : 1f8fc0f6- [REDACTED]

Object ID : bf9cbb1- [REDACTED]

Directory (tenant) ID : fc2bc38- [REDACTED]



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

Client credentials : [Add a certificate or secret](#)

Redirect URIs : [0 web, 1 spa, 0 public client](#)

Application ID URI : [Add an Application ID URI](#)

Managed application in local directory : [transcribe-frontend-dev-ar](#)

 Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure Active Directory Graph. We will continue to provide technical support and security updates but we will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#) 

Get Started Documentation

1.2.2 Authentication platform

Authentication / Add a platform

- Choose "Single-Page Application"
- Redirect uri: <https://localhost:5173>
- Select "ID Tokens"

Home > (TEST) Linköpings universitet | App registrations

transcribe-frontend-dev-ar |

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Overview

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Authentication

Certificates & secrets

Token configuration

API permissions

Expose an API

App roles

Owners

Roles and administrators

Manifest

Support + Troubleshooting

Troubleshooting

New support request

Platform configuration

Depending on the type of application, you can configure the following settings as redirect URIs.

+ Add a platform

Supported

Who can use this application?

Accounts in this directory

Accounts in any directory

Help me decide

Due to technical limitations, accounts in this directory cannot be used for this application.

Advanced settings

Allow public client

Enable the following authentication flows:

- App collaboration
- No key
- SSO for

App instance

Configure the application

Configure single-page application

< All platforms Quickstart Docs

The latest version of MSAL.js uses the authorization code flow with PKCE and CORS. [Learn more](#)

* 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](#)

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.

Grant types

MSAL.js 2.0 does not support implicit grant. Enable implicit grant settings only if your app is using MSAL.js 1.0. [Learn more about auth code flow](#)

✓ Your Redirect URI is eligible for the Authorization Code Flow with PKCE.

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](#).

Select the tokens you would like to be issued by the authorization endpoint:

☐ Access tokens (used for implicit flows)

☒ ID tokens (used for implicit and hybrid flows)

Save Configure Cancel

1.2.3 API permissions (use access_as_user from backend API)

API permissions / Add a permission

- Select APIs my organization uses
- Search and select “transcribe-api-dev-ar”
- Select “access_as_user”, click “Add permission”

Home > (TES) **transcribe**

Search

Overview Quickstart Integration

Manage

Branding Authentication Certificate Token API permissions Expose an API App roles Owners Roles and permissions Manifest

Request API permissions

Select an API

Microsoft APIs **APIs my organization uses** My APIs

Apps in your directory that expose APIs are shown below

transcribe

Name	Application (client) ID
transcribe-api-dev-ar	ed7b6a1 [REDACTED]

Home > (TES)

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Search

Overview

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Roles and

Manifest

Support + Troubleshooting

Troubleshooting

New supp

Request API permissions

transcribe-api-dev-ar

api://ed7b6a

What type of permissions does your application require?

Delegated permissions

Your application needs to access the API as the signed-in user.

Application permissions

Your application runs as a background service or daemon without a signed-in user.

Select permissions

Start typing a permission to filter these results

The "Admin consent required" column shows the default value for an organization. However, user consent can be customized per permission, user, or app. This column may not reflect the value in your organization, or in organizations where this app will be used. [Learn more](#)

Permission	Admin consent required
<div>Permissions (1)</div> <div> <div>access_as_user ⓘ</div> <div>Access API for transcription</div> </div>	No

Add permissions

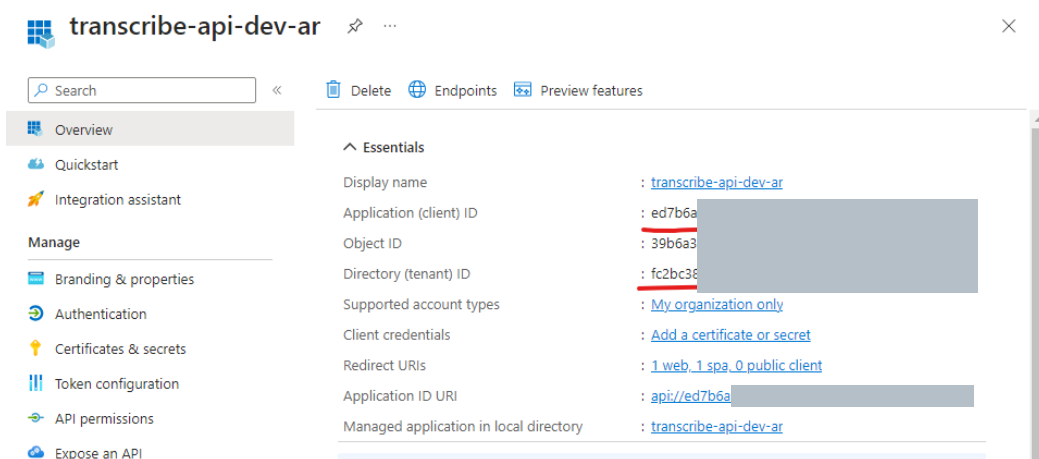
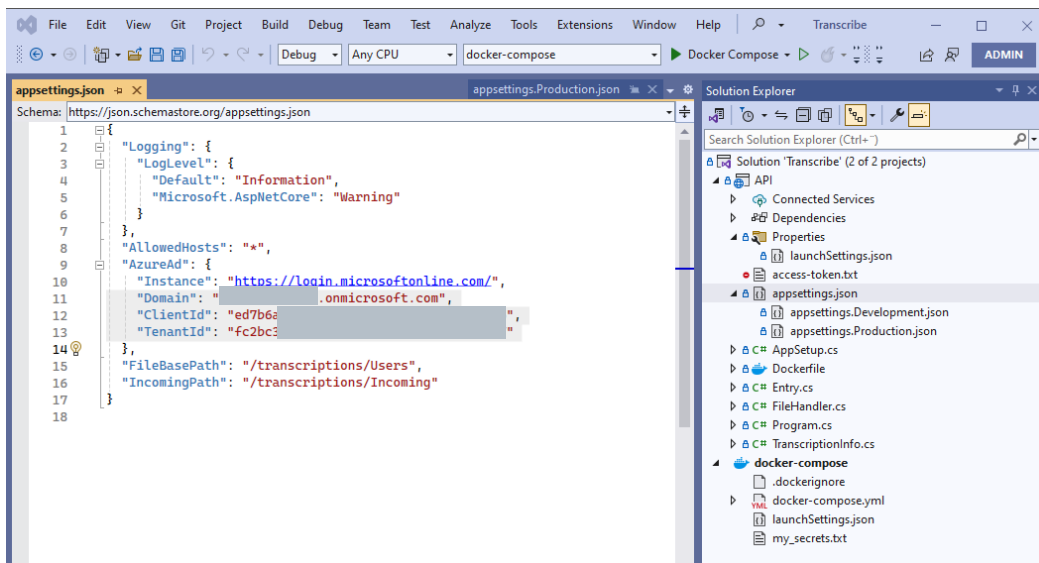
Discard

2 API configuration

2.1 appsettings.json

Edit appsettings.json, set values from “transcribe-api-dev-ar”

- Set AzureAd:Domain to tenant name
- Set AzureAd:ClientId to Application (client) ID
- Set AzureAd:TenantId to Directory (tenant) ID

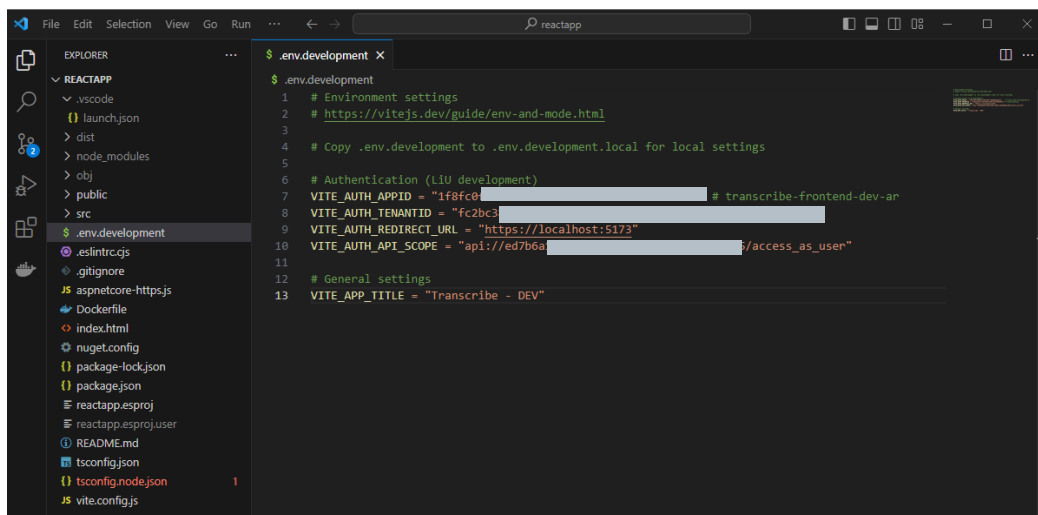


2.2 Frontend configuration

2.2.1 .env.development

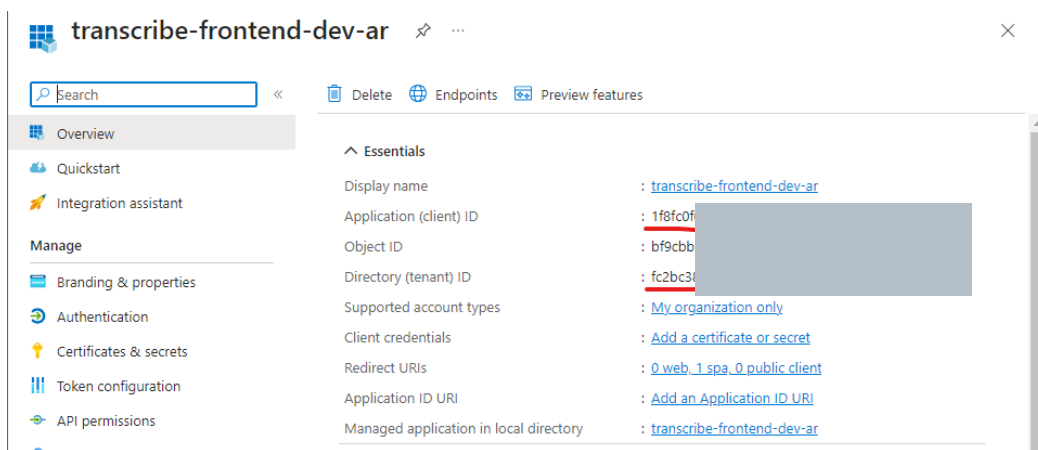
Edit `.env.development`, set values from “transcribe-frontend-dev-ar”

- Set `VITE_AUTH_APPID` to Application (client) ID
- Set `VITE_AUTH_TENANTID` to Directory (tenant) ID
- Set `VITE_AUTH_API_SCOPE` to:
`api://<clientId for transcribe-api-dev-ar>/access_as_user`
This can be found under API permissions, select `access_as_user`



```

1 # Environment settings
2 # https://vitejs.dev/guide/env-and-mode.html
3
4 # Copy .env.development to .env.development.local for local settings
5
6 # Authentication (Liu development)
7 VITE_AUTH_APPID = "1f8fc0f[redacted]" # transcribe-frontend-dev-ar
8 VITE_AUTH_TENANTID = "fc2bc3[redacted]"
9 VITE_AUTH_REDIRECT_URL = "https://localhost:5173"
10 VITE_AUTH_API_SCOPE = "api://ed7b6a[redacted]/access_as_user"
11
12 # General settings
13 VITE_APP_TITLE = "Transcribe - DEV"
  
```



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transcribe-frontend-dev-ar

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Manifest

Support + Troubleshooting

Troubleshooting
New support request

access_as_user
transcribe-api-dev-ar

Remove permission

api://ed7b6a /access_as_user

Admin consent required
No

Admin consent display name
Access API for transcription

Admin consent description
Allows the app to access API for transcription as the signed-in user

User consent display name
Access API for transcription

User consent description
Allows the app to access API for transcription on your behalf

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