

Resolve – User Guide

Version 1.0

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UNIVERSITY *of* WASHINGTON

Revision and Signoff Sheet

Change Record

Date	Author	Version	Change Reference
21 st July 2020	Palash Jhamnani	1.0	First Draft

Reviewers

Date	Reviewer	Version	Comments
	Anya L. Levysmith	1.0	

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Introduction

Resolve is a case/request management software

Know Issues

Same person/approver should not belong in multiple groups.

This is due to the database schema, where the key for approver table is composite, comprising of UserID and CaseID, so for the same case, a person cannot be an approver twice. This behavior can be modified with schema changes; however, it is not advised to change the schema as it will require changes at multiple places in the codebase. The current schema adheres to the business requirement and meets segregation of duty (SOD) principle. According to SOD, one person should not handle 2 conflicting approvals concurrently. E.g. A person belonging to HR group may approve a hiring request and if he/she belong to the Finance group as well then, they could approve/modify the hiring budget as well.

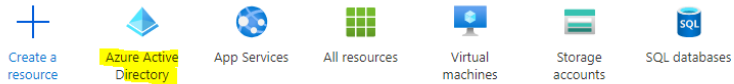
Azure Portal

Application Registration

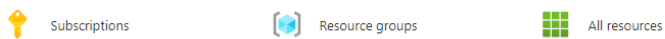
Step1: Login to <https://portal.azure.com/#home> with your UW net id

Step2: Go to Azure Active Directory

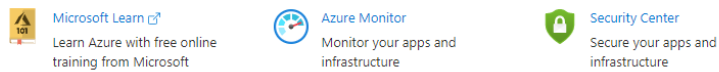
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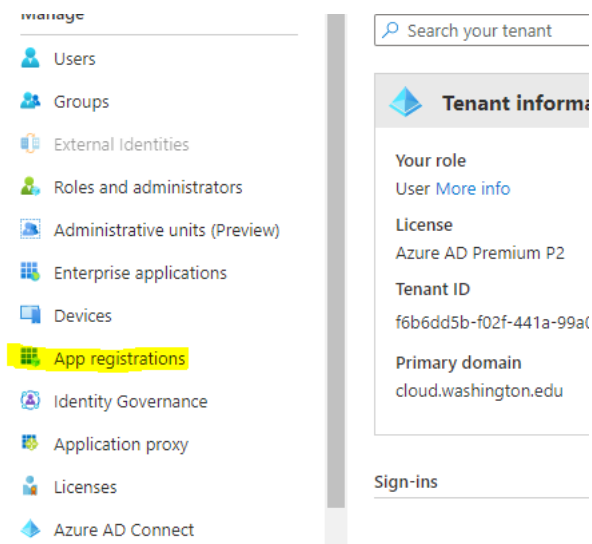
Navigate



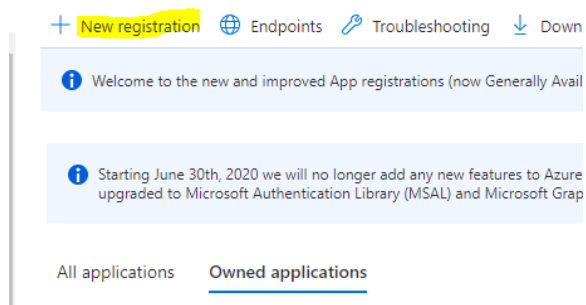
Tools



Step3: Go to App Registrations



Step4: Click New registration



Step5:

[Home](#) > [UW | App registrations](#) >

Register an application

* Name

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

Resolve_Test

Supported account types

Who can use this application or access this API?

- ☒ Accounts in this organizational directory only (UW only - Single tenant)
- ☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant)
- ☐ Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)

[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.

Web

https://localhost:44371/

Step6: Go to Authentication and configure URL's as shown below (According to hostname applicable)

Save Discard Got feedback?

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 users. Also referred to as reply URLs. [Learn more about Redirect URIs and their restrictions](#)

https://localhost:44371/signin-oidc



[Add URI](#)

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.

https://localhost:44371/signout-oidc



Implicit grant

Allows an application to request a token directly from the authorization endpoint. Checking Access tokens and ID tokens is recommended only if the application has a single-page architecture (SPA), has no back-end components, does not use the latest version of MSAL.js with auth code flow, or it invokes a web API via JavaScript. ID Token is needed for ASP.NET Core Web Apps. [Learn more about the implicit grant flow](#)

To enable the implicit grant flow, select the tokens you would like to be issued by the authorization endpoint:

☐ Access tokens

☒ ID tokens

Step7: Create a new client secret (note it down, will not be able to retrieve later)

Client secrets

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	
No description	3/14/2021	Hidden	
Test	3/15/2021	U@t*****	

Step8: API Permissions

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 UW

API / Permissions name	Type	Description	Admin consent req...	Status
▼ Azure Active Directory Graph (3) ...				
Directory.Read.All	Delegated	Read directory data	Yes	⚠ Not granted for UW ...
Group.Read.All	Delegated	Read all groups	Yes	⚠ Not granted for UW ...
User.Read	Delegated	Sign in and read user profile	-	...
▼ Microsoft Graph (2) ...				
Group.Read.All	Delegated	Read all groups	Yes	⚠ Not granted for UW ...
User.ReadBasic.All	Delegated	Read all users' basic profiles	-	...

Step9: Modify the Manifest

The editor below allows you to update this application by directly modifying its JSON representation. For more details, see: [Understanding the Azure Active Directory application manifest](#)

```
1 {
2   "id": "16045720-127f-42cc-ba3d-fe95f5f4bafd",
3   "acceptMappedClaims": null,
4   "accessTokenAcceptedVersion": null,
5   "addIns": [],
6   "allowPublicClient": false,
7   "appId": "0f6bc5f5-5dfb-43aa-93b5-6bc621f3d5f6",
8   "appRoles": [],
9   "oauth2AllowUrlPathMatching": false,
10  "createdDateTime": "2020-03-15T02:33:23Z",
11  "groupMembershipClaims": "ApplicationGroup",
12  "identifierUris": [
13    "https://cloud.washington.edu/WebApplication1_20200314330723"
14  ],
15  "informationalUrls": {
16    "termsOfService": null,
17    "support": null,
18    "privacy": null,
19    "marketing": null
20  },
21  "keyCredentials": [],
22  "knownClientApplications": [],
23  "logoUrl": null,
24  "logoutUrl": "https://localhost:44371/signout-oidc",
25  "name": "WebApplication1_20200314330723",
26  "oauth2AllowIdTokenImplicitFlow": true,
27  "oauth2AllowImplicitFlow": false,
28  "oauth2Permissions": [
29    {
30      "adminConsentDescription": "Allow the application to access WebApplication1_20200314330723 on behalf of the signed-in user.",
31      "adminConsentDisplayName": "Access WebApplication1_20200314330723",
32      "id": "bea528ac-c7de-47bc-af9c-d4f5ece59e9d",
33      "isEnabled": true,
34      "lang": null,
35      "origin": "Application",
36      "type": "User",
```


Step9: Now add the associated groups to the application by going to Enterprise Applications

UW | App registrations

- Overview
- Getting started
- Preview hub
- Diagnose and solve problems
- Manage
 - Users
 - Groups
 - External Identities
 - Roles and administrators
 - Administrative units (Preview)
 - Enterprise applications
 - Devices
 - App registrations
 - Identity Governance
 - Application proxy
 - Licenses
 - Azure AD Connect
 - Custom domain names
 - Mobility (MDM and MAM)
 - Password reset
 - Company branding
 - User settings

« + New registration | Endpoints | Troubleshooting | Download (Preview) | Got feedback?

Welcome to the new and improved App registrations (now Generally Available). See what's new and learn more on how it's changed. →

Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure AD Graph. We will continue to be upgraded to Microsoft Authentication Library (MSAL) and Microsoft Graph. [Learn more](#)

All applications **Owned applications**

Start typing a name or Application ID to filter these results

Display name

WE	WebApplication1_20200314330723
WE	WebApplication2_20200315220912
RE	Resolve
WE	WebApplication8
RE	Resolve_Test


Step10: Search for your Application

« + New application | Columns | Preview features | Got feedback?

Try out the new Enterprise Apps search preview! Click to enable the preview. →

Application type: Enterprise Applications | Applications status: Any | Application visibility: Any | **Apply** | **Reset**

Resolve_Test

Name	Homepage URL	Object ID
 Resolve_Test		ed2f3d5...

Step11: Assign Users and Groups

«

nd solve problems

groups

g

proxy

!

Access

s

ption

sights (Preview)

g logs (Preview)

ews

Properties


RE


Name ⓘ
Resolve_Test


Application ID ⓘ
bcbb0b71-77cd-444f-94a0-...

Object ID ⓘ
ed2f3d53-672d-48b6-96a8-...


Getting Started


**1. Assign users and groups**
Provide specific users and groups access to the applications
[Assign users and groups](#)


**2. Provision User Accounts**
You'll need to create user accounts in the application
[Learn more](#)

**3. Self service**
Enable users to request acc application using their Azu credentials
[Get started](#)

What's New

**Sign in charts have moved!**
The new Insights view shows sign in info along with other useful application data. [View insights](#)

**Delete Application has moved to Properties**
You can now delete your application from the Properties page. [View properties](#)


**Getting started has moved to Overview**
The Getting Started page has been replaced by the steps above

Step12: Add User

rest p users and groups

ition

« + Add user Edit Remove Update Credentials Columns Got feedback?

 The application will appear on the Access Panel for assigned users. Set 'visible to users?' to no in properties to prevent this. →

First 100 shown, to search all users & groups, enter a display name.

Display Name	Object Type
No application assignments found	

Step 13: Add the group

Home > UW > Enterprise applications | All applications > Resolve_Test | Users and groups >

Add Assignment

UW

Users and groups

None Selected

Select a role

Default Access

Assign

Users and groups

uw_sod_webapps_resolve-admins



uw_sod_webapps_resolve-admins

Selected items

No items selected

Select

Step 14: Add all other groups relevant to Resolve at this place in Azure Portal

Step 15: Now use all the above details and fill in the appsettings.json file for your application as shown below

```
{
  "AzureAd": {
    "Instance": "https://login.microsoftonline.com/",
    "Domain": "cloud.washington.edu",
    "TenantId": "f6b6dd5b-f02f-441a-99a0-162ac5060bd2",
    "ClientId": "0f66bc5f5-5dfb-43aa-93b5-6bc621f3d5f6",
    "CallbackPath": "/signin-oidc",
    "ClientSecret": "U@t3rA4h:_8E[esK6aNXqs=._prSp@@E"
  },
  "Logging": {
    "LogLevel": {
      "Default": "Information",
      "Microsoft": "Warning",
      "Microsoft.Hosting.Lifetime": "Information"
    }
  },
  "Smtp": {
    "FromAddress": "sodforms@uw.edu",
    "Server": "smtp.washington.edu",
    "Password": "JAc@7H&C&+",
    "Port": 587
  },
  "Launch": {
    "Host_Name": "localhost",
    "Host_Port": 44371
    // "Host_Name": "devapps.dental.uw.edu",
  }
}
```

```
    // "Host_Port": 443
  },
  "AllowedHosts": "*",
  "GraphApiUrl": "https://graph.microsoft.com/beta",
  "ConnectionStrings": {
    // "ResolveContext": "Server=sod-d-sql-
001.dental.uw.edu;Database=ResolveV1;Trusted_Connection=True;MultipleActiveResultSets=true",
    "ResolveContext":
"Server=.\SQLExpress;Database=ResolveV2;Trusted_Connection=True;MultipleActiveResultSets=true"
  }
}
```

With these steps your app should be ready to authenticate and integrate Azure AD into your .Net Core App.