Office 365 Proposal Manager

Getting Started Guide

Version 4.0 (Generic Accelerator)

Contents

[1 Overview 1](#_Toc12536684)

[2 Prerequisites 1](#_Toc12536685)

[3 Enable side-loading 1](#_Toc12536686)

[4 Automated Deployment 2](#_Toc12536687)

[5 Upload Proposal Manager Add-in 4](#_Toc12536688)

[6 Finish Setup 7](#_Toc12536689)

[7 Solution Configuration 11](#_Toc12536690)

[8 Deployment Validation 17](#_Toc12536691)

[9 Bot Registration 21](#_Toc12536692)

[10 Configure Analytics Dashboard 24](#_Toc12536693)

[11 Office add-in for Proposal Creation 29](#_Toc12536694)

[12 API Guidance 30](#_Toc12536695)

[13 User Experience Overview 30](#_Toc12536696)

[13.1 User Personas 30](#_Toc12536697)

[13.2 User Interfaces 31](#_Toc12536698)

[13.3 Key Entities 31](#_Toc12536699)

[13.4 User Permissions 32](#_Toc12536700)

[14 Proposal Management Process 32](#_Toc12536701)

[14.1 High Level Workflow 33](#_Toc12536702)

[14.2 Data Flow 33](#_Toc12536703)

[14.3 User Interaction Flow 34](#_Toc12536704)

[15 Extensibility 35](#_Toc12536705)

[16 Maintenance 35](#_Toc12536706)

[17 Security Considerations 37](#_Toc12536707)

[18 Troubleshooting 37](#_Toc12536708)

[19 Known Issues 38](#_Toc12536709)

[Appendix A: Manual Deployment 39](#_Toc12536710)

[1 Setup Azure App Service 39](#_Toc12536711)

[1.1 Azure App Registration 39](#_Toc12536712)

[1.2 Application Insights 41](#_Toc12536713)

[2 Register Proposal Manager App 41](#_Toc12536714)

[2.1 Register App 41](#_Toc12536715)

[2.2 Configure Application Registration 42](#_Toc12536716)

[3 SharePoint Configuration 46](#_Toc12536717)

[4 Setup Office 365 Groups 47](#_Toc12536718)

[5 Create custom add-in for Teams 48](#_Toc12536719)

[6 Deploy Solution 49](#_Toc12536720)

[6.1 Update App Settings 50](#_Toc12536721)

[6.2 Update Client App Settings 51](#_Toc12536722)

[6.3 Configure Document ID Activator 52](#_Toc12536723)

[6.4 Publish to Azure 52](#_Toc12536724)

[6.5 Accept Application Consent as Admin 53](#_Toc12536725)

[Appendix B: Permissions List 55](#_Toc12536726)

[Appendix C: Proposal Manager Mobile Experience 57](#_Toc12536727)

[Appendix D: Reference Videos 59](#_Toc12536728)

# Overview

The purpose of this document is to provide guidance on setup and deployment to an ISV partner who is familiar with Microsoft 365, Microsoft Azure and web application implementation. This document is part of the May 2019 release of the solution - Office 365 Generic Accelerator.

This is a generic version of the Proposal Manager solution launched in Oct 2018. Proposal Manager solution supported a specific business process that can be leveraged for different financial scenarios such as Commercial Lending and Investment Pitchbook. Generic Accelerator expands this capability by making the solution more generic, that can be used for different scenarios across multiple industry verticals.

# Prerequisites

To setup the solution, make sure that you have:

* Microsoft 365 Tenant (Business or Enterprise SKU)
* Microsoft Azure subscription
* Visual Studio 2017 (Enterprise, recommended), version 15.7.4 and above
* ASP.NET Core 2.2
* Node.js

Note that the following access permissions are required to be able to deploy the solution:

* Ensure that you have global admin access on the Office 365 tenant where the solution is being deployed
* You need to have Contributor or Owner access on the Microsoft Azure subscription where the web application is planned to be deployed and made available to the users.

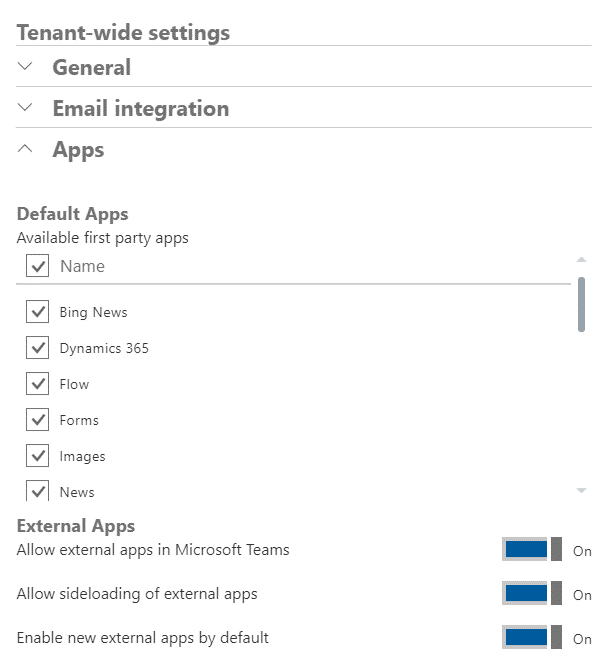
# Enable side-loading

To facilitate managing the end-to-end process of handling opportunities involving multiple team members using the rich collaboration capabilities of Microsoft Teams, we have extended Microsoft Teams by adding a team for each opportunity with channels and corresponding content to address different parts of the process.

The add-in package (created during the [Deployment process](#_Automated_Deployment)) will need to be side-loaded to the root Proposal Manager team created during the [Setup process](#_Guided_Setup_1).

To manage admin settings for apps in Teams, go to the Office 365 admin center and open Settings > Services & add-ins, then choose Microsoft Teams. As an admin, you can directly get to this section with the following link: <https://portal.office.com/adminportal/home#/Settings/ServicesAndAddIns>

Sideloading is how you add an app to Teams by uploading a zip file directly to a team. Only team owners, or members who are granted permissions, can sideload apps into Teams.



Ensure that sideloading of external apps is enabled at the tenant level.

# Automated Deployment

Proposal Manager provides an automated deployment option using PowerShell to facilitate quick setup. If preferred to complete the setup steps manually, follow the directions [specified in Appendix A](#_Appendix_A:_Manual_1). To proceed with the automated setup, follow these steps:

**Step 1**: Initiate new instance of Proposal Manager:

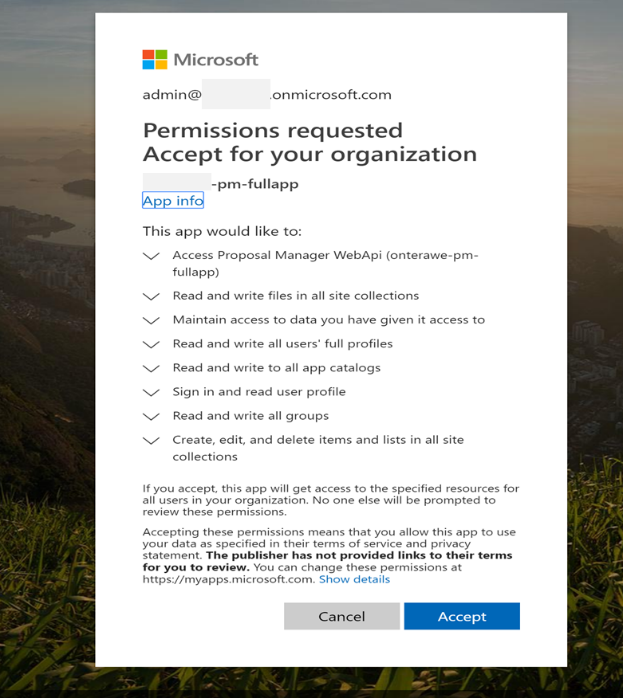
1. Download the latest source code from <https://github.com/OfficeDev/ProposalManager>
2. Open a new PowerShell window (with Administrator privileges for more seamless approach) and navigate to .\Setup\
3. Refer to .\Setup\Automated Setup.md for instructions and information to execute the deployment script, Install-PMInstance.ps1.

This script will take care of the below items:

1. Create an app service.
2. Register app in Active Directory.
3. Create SharePoint site.
4. Deploy the Proposal Manager application to Azure .
5. Create Proposal Manager Team in Teams (teams.mirosoft.com) with Setup and General Channels.
6. It will show you some useful data about the deployment, such as:
   1. The URL to the app.
   2. The SharePoint site URL.
   3. The app Id.

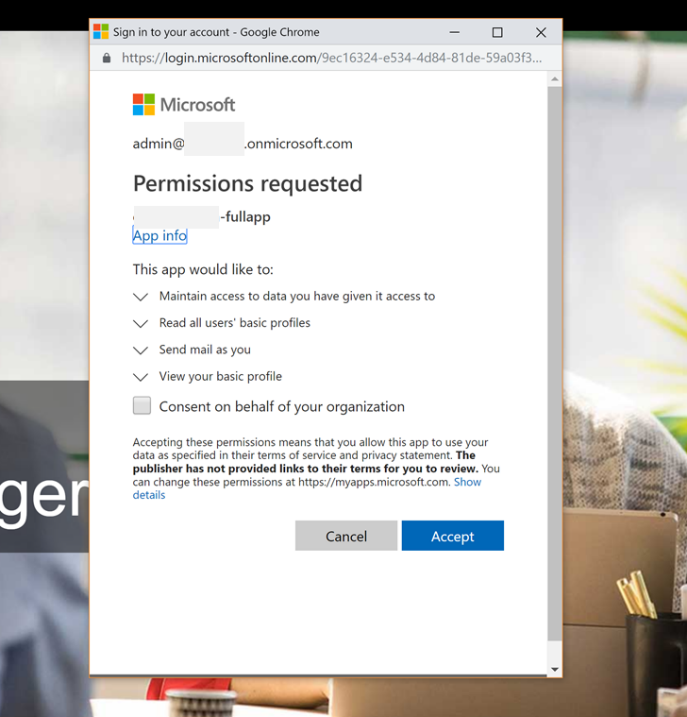
**Step 2**: After completion of successful script execution, the application will open automatically in the browser and prompt for login. Login with admin user and accept the first consent permission.

*https://login.microsoftonline.com/common/adminconsent?client\_id=<client\_id>&state=12345&redirect\_uri=https://<app\_name>.azurewebsites.net*

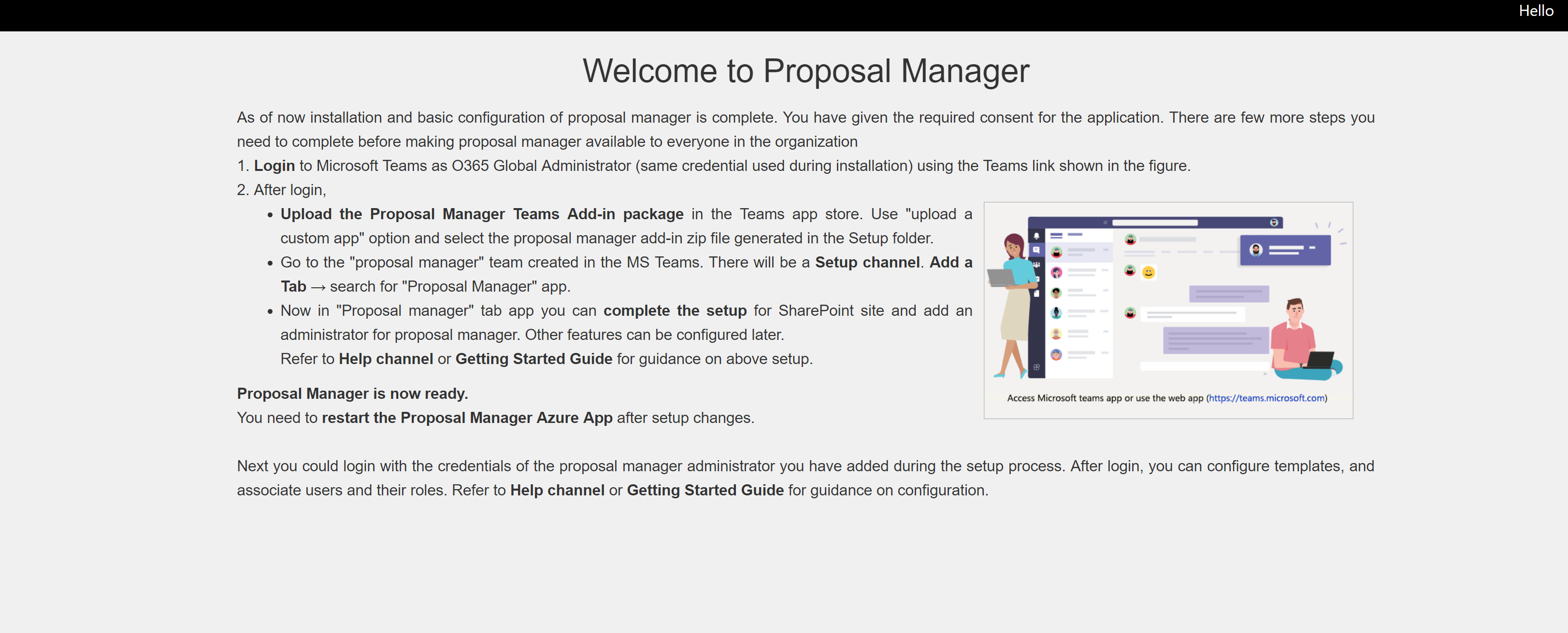


**Step 3**: The application will redirect in the same window. Click on sign-in link in the upper right corner of the screen, and login with admin user again. Accept the second consent permission. Be sure to check the *Consent on behalf of your organization* checkbox.

*https://<app\_name>.azurewebsites.net/?admin\_consent=True&tenant=<tenant\_id>&state=12345*



**Step 4**: After the two consent steps, you will launch into Proposal Manager launch screen



From here, you can go to <https://teams.microsoft.com> or open up the Microsoft Teams desktop client, where you can upload the Proposal Manager zip file using Upload custom app following the next step.

Take care to register the bot and note the required information as detailed [here](#_Configure_Notifications_Bot) before proceeding.

# Upload Proposal Manager Add-in

Follow the next procedure in either the web or desktop client of Microsoft Teams, logged in as the Proposal Manager administrator:

|  |  |
| --- | --- |
| Go to the store clicking the access located in the lower left corner of the client. |  |
| Click on “Upload a custom app”, again located in the lower left corner of the screen.  Click on your Tenant to upload the addin. This will open up a dialog.  Navigate to the “Setup” folder (where the script is located) and select the “ProposalManager.zip” file to upload the addin. |  |
| Once it uploads, click on the Proposal Manager Add-in card. |  |
| Click on the **Install** button. |  |
| Now navigate to the Teams view, and go to Proposal Manager Team. Click on the Setup channel. |  |
| Click on the Plus sign next to the Wiki tab, find the Proposal Manager Add-in and click on it.  After the application authenticates, the Save button will be enabled. Click on it. |  |

With these steps complete, you should be present in the proper Setup screen. Continue with the next section.

# Finish Setup

Next step is to finish the setup from the Setup channel. Follow the steps detailed on this table.

|  |  |
| --- | --- |
| Step | Description |
| 1 | Configure Document Id Activator. The first three values should already be completed; to get the last two values, refer to step 1.1. |
| 1.1 | You will need to register an app in SharePoint, assign the required permissions and give consent. Follow the next procedure:   1. Go to https://<tenant>.sharepoint.com/\_layouts/AppRegNew.aspx      1. Click both “Generate” buttons and copy the generated Client Id and Secret, then paste them in the setup page. 2. In “Title” text field, enter the value “Opportunity Site Provisioner”. 3. In “App Domain” enter the domain URL of the Proposal Manager application   (eg: <contoso>.azurewebsites.net).   1. In “Redirect URI”, enter the fully qualified URL (including protocol) for the Proposal Manager Application (eg: https://<contoso>.azurwebsites.net). 2. Click “Create”. 3. Now go to https://<tenant>-admin.sharepoint.com/\_layouts/AppInv.aspx (notice the ­**-admin** suffix in the lower level domain of this URL; if you don’t include it, this won’t work). 4. Look up the app with the Id generated in step 2. 5. In the Permission Request XML, enter this:   *<AppPermissionRequests AllowAppOnlyPolicy="true">*  *<AppPermissionRequest Scope="http://sharepoint/content/tenant" Right="FullControl"/>*  *</AppPermissionRequests>*   1. Click on “Create”. 2. Click on “Trust It” button.   Go back to Proposal Manager’s Setup page. The step 1 section should already contain the “ClientID” and “Client Secret” values in the “SharepointAppId” and “SharepointAppSecret” fields respectly. Once this is done, click on “Configure”. |
| 2 | Finish the main settings by Giving a name to Administrator group like “Proposal Manager Administrator”. This step will:   * Create Proposal Manager Root Id and update appsettings.json. * Create all Sharepoint lists and load all primary data. * Create Proposal Manager administrator group (which we need for to open “Configuration” channel). * Create “Administartion”, ”Configuration” and “Help” channels in the main Proposal Manager team. * After that , it will disable the 1º and 2º steps.     Admin can come back to the Setup page at any time and make updates until the Finalize button is clicked. This disables the Setup page and prevents further updates. |
| 3 | Configure Bot details. To Create bot please refer “Bot Registration” (Section 9). |
| 4 | Configure Analytics Dashboard. To set this up, please refer to the Configure Analytics Dashboard section of this guide (Section 10). |
| 5 | Creating Default Bussiness process and team. User can upload sample business process (provided in ***Proposal/Templates)*** in solutions. We are currently shipping the product with two business process: Commercial Lending and PitchBook business process.    After clicking uploading file user will get the next window:    When user click save, the given business process along with given roles and process will get added into the app. If you checked the checkbox , then a default team will also get created for demo purposes only.  Once everything get saved, please go to configuration page and make sure everything is okay. |
| 6 | It is recommended to maintain a local copy of the application settings file, for advanced use. |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Solution Configuration The solution is now ready to be used. Before Proposal Manager can be used broadly within the organization, some initial configuration is required. To complete this:   |  |  | | --- | --- | | 1 | Go to ***Configuration Channel*** in the Proposal Manager Team, which is created in Step 4.  *If “Proposal Manager” tab is not showing, Click on + symbol then add Proposal Manager tab.*  Go to **Process Types** and create new process, which can be used in Business Model.  While creating new row enter “Process Step” as your business process name and select “Process Type” from the dropdown as “ChecklistTab”  We need to do this as the first step, because this will create necessary user permissions which we can use in the second step. | | 2 | Create AD Group names in <https://portal.office.com/AdminPortal/Home#/groups>, Use the same group names in permission tab to create new permission, as example is given below   * ADGroupName: Name given in the portal.admin.com * Role: Role of the personal * Permissions: Refer to [Appendix B](#_Appendix_B:_Permissions) for an overview of available options for Permissions. Example permissions are also mentioned in this section. * Type: Proposal Manager Team membership (Owner/Member)   You can use the User personas described in Section 12.1 for a generic example.    AD Group Names Example: | | 3 | Create tasks from the “Tasks” tab | | 4 | Create a deal type (Business Process tab) with the basic process flow.  Click on “Add” button to create new Business process, and follow the next steps:   1. Enter the Business process name. 2. Click on “Add Group” link.      1. Select the “Process Group order” from drop down 2. Select the process name by clicking on + symbol on “process name”. 3. Click on Save button to save the group.      1. Repeat the steps from 3 to 5. To continue add multiple groups. Then click on “Continue” button, to Preview the Business process type.   Then click on “Save” button to save the Business process. | | 5 | Review and update Process Types with the role which we created Permissions Tab. Select the appropriate rolename for each process step and save the row. | | 6 | Update the Opportunity Metadata, these fields will show in Proposal Manager UI While creating new opportunity.    The opportunity creation UI has 3 separate screens; you can locate your custom fields in any of these screens by writing it up in the Screen column. You should type Screen1, Screen2 or Screen3 accordingly. | | 7 | Add other users (like e.g.: PM Administrators, Relationship Managers and Loan Officers) as members of the root Proposal Manager Team.  To add other team member -> Click on three dots next “Proposal Manager Team” -> Manage team -> Click on Add Members.    Select the users as showing in below and select the user and click on ADD button | | 8 | Confirm that all team members working on Proposal Management have been added to the respective groups indicated in the Permissions tab. Work with the Office 365 Administrator to make sure that group membership continues to remain current. |  Deployment Validation After completing the configuration, it is important to do an end-to-end validation of the solution before enabling it to be used across the organization.   |  |  | | --- | --- | | 1 | Login as Relationship Manager (role with the “Opportunity\_Create” permission) to create an opportunity from the “Proposal Manager” Team  Opportunity Creation Step1    Opportunity Creation Step2    Opportunity Creation Step3    After Submitting, you will be redirected to the list of all opportunities. | | 2 | Login as Loan Officer (role with the “Opportunity\_ReadWrite\_DealType” and “Opportunity\_ReadWrite\_Team” permission) to access the newly created Opportunity team and update deal type and team members. | | 3 | Login as Credit Analyst/ Legal Counsel / Risk Officer (or any other role that is part of the team). Access the checklist, and update an item. | | 4 | Login as Loan Officer, upload a proposal document and review Formal Proposal tab. | | 5 | As Loan Officer, review Workflow. | | 6 | As Loan Officer, update Customer Decision. | |
|  |
|  |
|  |

# Bot Registration

Guidelines for BOT Setup during the Application Deployment

1. If you ran the automation script with “IncludeBot”, it prompted for bot name; use the **same** bot name while following the below steps.
2. Go to <https://dev.botframework.com/bots/new> and register the bot with the same name which is given in the script. Enter the same value in “Bot handle”, “Long description” (please refer the screen shot below).
3. Enter the “Messaging endpoint” URL as https://<applicationURL>/api/messages (E.g.: *https://contoso.com/api/messages*)
4. Copy the “AppID” of your bot application name (eg: <appname>-bot) by logging with O365 admin credential using URL <http://apps.dev.microsoft.com>.
5. Check the checkbox of “I agree” terms and conditions then Click on “Register” button.
6. From the “Add a Featured Channel” -> Click on the “Microsoft Teams” icon to configure MS teams.
7. Click on “Save”.
8. Agree the “Terms of Service”. With this step configured the MS team with bot.
9. If the Bot details are not there in the setup page, then give all the details from the bot settings and click on configure in Setup page Step 3.

**Troubleshooting**

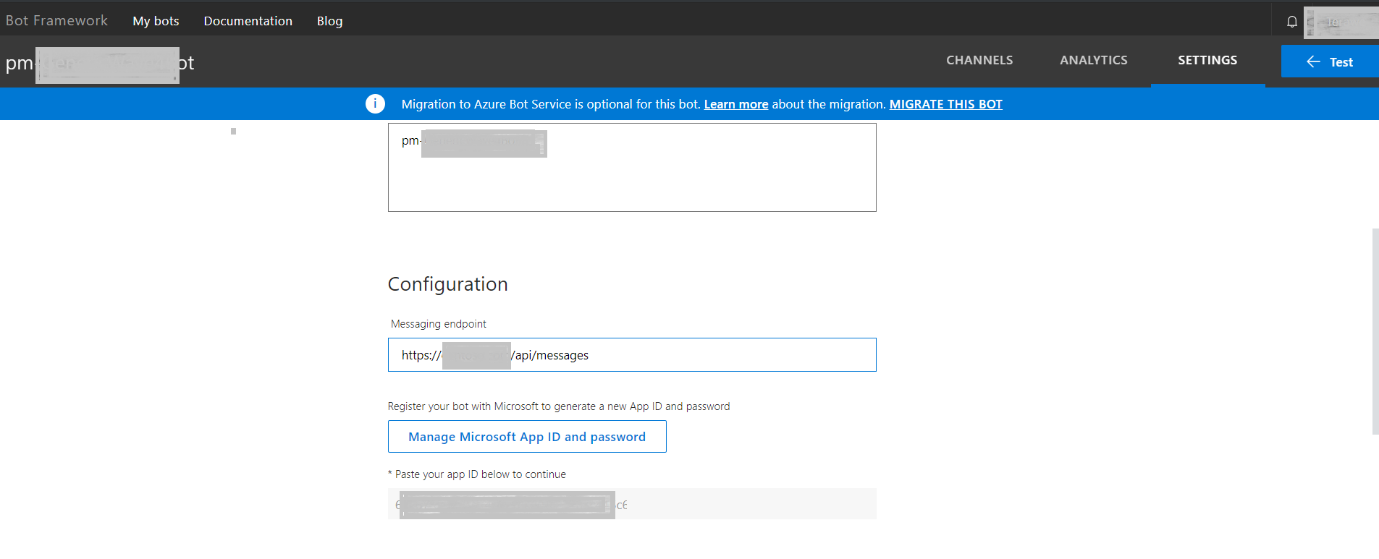
After deployment using automation script, bot notification message is not working.

Observations:

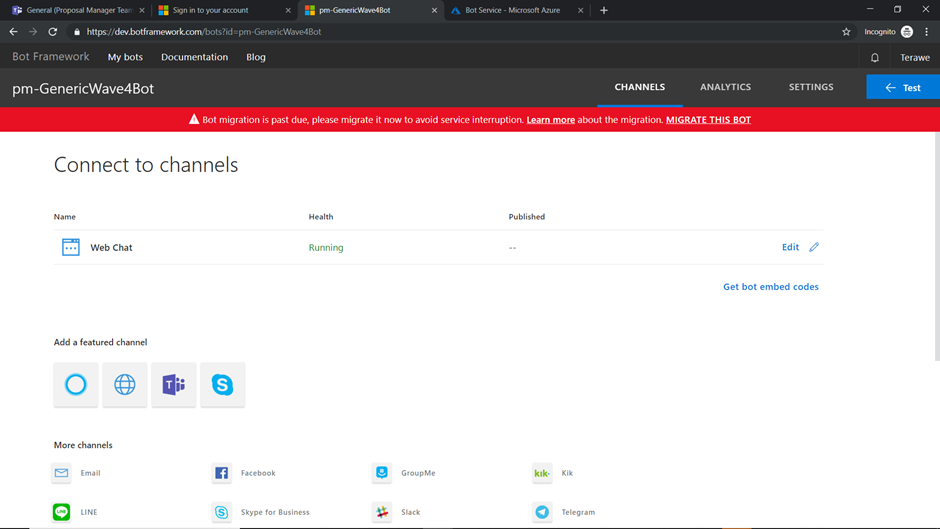
* Manifest.json file need to verify whether it has the proper “BotID”
* Setup page, please verify the correct bot app details present in the appsetting.json.

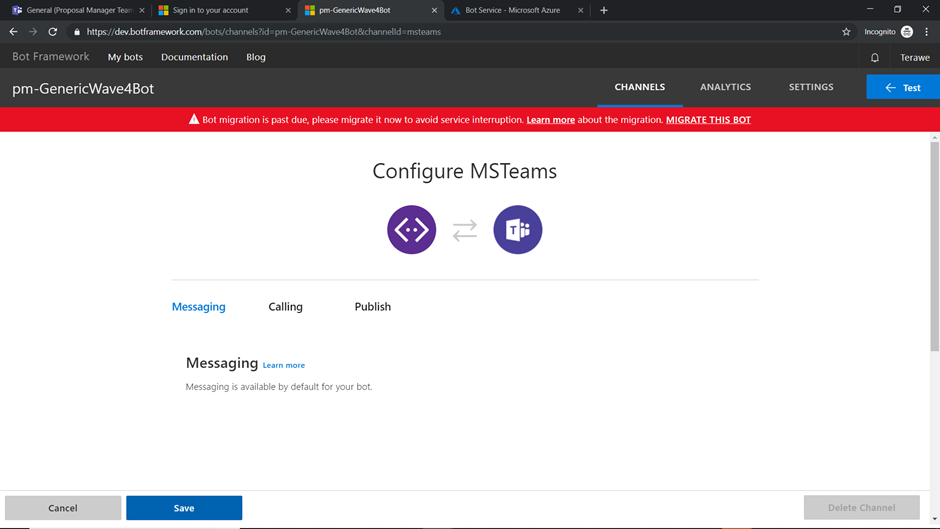
Steps to Resolve:

1. Go to <https://dev.botframework.com/bots/new> and register the bot with the same name which is given in the script.
2. Enter the “Messaging endpoint” URL as https://<applicationURL>/api/messages (E.g.: *https://contoso.com/api/messages*)
3. Copy the “AppID” of your application by logging with admin credential using URL <http://apps.dev.microsoft.com> .



1. Click on Save Changes.
2. Click on “Channels” tab -> Select the “Microsoft Teams” from Add a featured channel.



1. Click on save.  
     
   

# Configure Analytics Dashboard

|  |
| --- |
| **NOTE:**   * You can choose to complete this step later based on when you wish to enable this feature. This can be updated later from the Setup page, until Setup has been marked as Final. * This step can be completed only after Step 4 of Guided Setup, as the Dashboard list created during site setup is required for configuration |

**Prerequisites**

Make sure that you have downloaded and installed [Power BI Desktop](https://powerbi.microsoft.com/en-us/desktop/) to proceed with the setup

Refer to this [video](https://youtu.be/ZG7WQGTgn6k) for a quick overview of the process.

Identify a user who will need to be assigned a Power BI Pro license to be able to access the dashboard. This is required to facilitate the “apps own data” model for embedded Power BI workspaces

To ensure security of the application, the credentials are stored in an Azure Key Vault, which can be setup as detailed [here](https://docs.microsoft.com/en-us/azure/key-vault/quick-create-portal). The Vault Base URL then need to be updated in Step 4 of the Setup page.

|  |  |
| --- | --- |
| Step | Description |
| 1 | You need to register the PowerBI app and do the admin consent:  <https://docs.microsoft.com/en-us/power-bi/developer/register-app>   1. Sign into <https://dev.powerbi.com/apps>   Enter application name. E.g.: “PropsalManagerPowerBI App”  Select the “Application Type” as “Native” from the dropdown  “API Access” section click on “Select all” checkbox - it will select all permissions.  Click on “Register” button.  **Note**: after registering, it will display the app ID of the newly created application. Please save it.     1. To Grant admin consent permission for this app, login to portal.azure.com   From Left pane -> Click on “Azure Active Directory” -> Select App Registration -> look for the powerbi application (which was entered in above step or search with appID name which was generated in above step)   1. Select “API permission” -> Click on “Grant admin consent for <orgname>” button. |
| 3 | Open the PowerBI Desktop app and import the “pbix” file in the solution folder and press on edit queries. You might see the below error:    If you see above error, press ***Go to error***, and then ***Edit Settings:*** |
| 4 | By providing correct SharePoint URL and credentials (if required) you will able to see something like below screen, traverse through the steps (***don’t delete the “Applied steps” unless required)***  Note: “Applied steps” are in right-hand side displayed shown in the below image.          Then close and apply.    6 ) Now you will be able to see the visualization window. |
| 7 | Make sure that all measures, set as detailed below, are of type ‘whole number’. For this, select each measure in Power BI Desktop, click on ‘Modeling’ tab on top and set the data type to ‘Whole Number’.   |  |  | | --- | --- | | Measure Name | Formula | | FormalProposalCompletedCount | *NOT(CALCULATE(*  *COUNTA('DashBoard'[FormalProposalEndDate]),*  *(ISBLANK('DashBoard'[FormalProposalEndDate]))*  *))* | | ComplianceReviewCompletedCount | *NOT(CALCULATE(*  *COUNTA('DashBoard'[ComplianceRewiewCompletionDate]),*  *(ISBLANK('DashBoard'[ComplianceRewiewCompletionDate]))*  *))* | | CreditCheckCompletedCount | *NOT(CALCULATE(*  *COUNTA('DashBoard'[CreditCheckCompletionDate]),*  *(ISBLANK('DashBoard'[CreditCheckCompletionDate]))*  *))* | | RiskAssessmentCompletedCount | *NOT(CALCULATE(*  *COUNTA('DashBoard'[RiskAssesmentCompletionDate]),*  *(ISBLANK('DashBoard'[RiskAssesmentCompletionDate]))*  *))* | | AverageCompReviewTime | *SUM(DashBoard[ComplianceReviewNoOfDays])/DashBoard[ComplianceReviewCompletedCount]* | | AverageCreditAnalyisTime | *SUM(DashBoard[CreditCheckNoOfDays])/DashBoard[CreditCheckCompletedCount]* | | AverageFormalProposalTime | *SUM(DashBoard[FormalProposalNoOfDays])/DashBoard[FormalProposalCompletedCount]* | | AverageRiskAssessmentTime | *SUM(DashBoard[RiskAssessmentNoOfDays])/DashBoard[RiskAssessmentCompletedCount]* | |
| 8 | Once the measures have been configured, confirm that the reports are loading fine. Note that until the first opportunity has been created, the lists will be empty. |
| 9 | Publish the report to the workspace created in Step 2 |
| 10 | Login to <https://app.powerbi.com> with the credentials of the licensed user and go to the specific workspace |
| 11 | Ensure that the licensed user has access to the published report |
| 12 | Note the Report ID and Workspace ID that will be required to integrate the Power BI report with Proposal Manager |

# Configure Audit Logs

After completing step 10 Configure Analytics Dashboard, follow the next steps no configure the Audit Logs report:

|  |
| --- |
| 1. Open the PowerBI Desktop app and import the “audit.pbix” file located under the solution folder and press on edit queries. You might see the below error:     If you see above error, press ***Go to error***, and then ***Edit Settings:*** |
| 1. Enter the correct SharePoint URL and credentials and then close and apply.      1. Now you will be able to see the visualization window. |
| 1. Publish the report to the previously created workspace. 2. Take note of the Report ID and Workspace ID that will be required to integrate the Power BI report with Proposal Manager. 3. By default Audit Logs are disabled. To enable log auditing, follow the steps mentioned below: 4. Open the file appsettings.json located under the folder WebReact. 5. Set the property AuditEnabled to true, as shown below: 6. Publish the file to the Azure portal, follow the steps mentioned in the Appendix A: Manual Deployment / Step 6 Deploy Solution 7. Once Audit Logs are enabled, you will be able to access the report located in the Administration channel as shown below:  Note: in order to access the report you must have Administrator permissions. 8. To disable log auditing, set the property AuditEnabled to false and redeploy. |

# Office add-in for Proposal Creation

The Word add-in for Proposal Creation facilitates collaborative finalization of the Proposal document, with support for advanced features such as assignment of owners for sections and creation of tasks associated with specific sections. This is integrated with the Proposal Manager solution and activities are published as cards in the General channel in the Team associated with the Opportunity.

Please refer to the Proposal Creation add-in documentation for details on deploying the add-in on a new tenant.

# API Guidance

The guide for using the API is present at ./APIGuide. To view the API documentation, right click on the solution, select ‘Open Folder in File Explorer’, and navigate to the root directory. The folder named APIGuide contains the API documentation.

# User Experience Overview

This section details at a high level, how different personas interact with the solution, in the context of Proposal Manager.

Note that the Generic Accelerator solution supports multiple scenarios including Proposal Management.

This section details the different user personas interacting with the Proposal Management solution, their experience across different interfaces and end-to-end Proposal Management process for Corporate Lending, facilitated by the solution.

# User Personas

Solution considers 3 key personas as part of the team handling the opportunity, along with addition team members as defined in the user role mapping at the tenant level: Given below is an example of naming conventions could be used. There is no mandatory customer can give any name as Persona.

|  |  |
| --- | --- |
| Persona | Description |
| Relationship Manager | Owner of the opportunity, who identifies the opportunity, enters it into the system and drives it to a conclusion. Takes care of providing relevant documents to the participants involved in the proposal process, and acts as the point of contact with the customer |
| Loan Officer | Owns the proposal preparation process and forms the team handling the opportunity, based on decision taken on loan type and specific process to be followed for arriving at a proposal for the same |
| Credit Analyst | Example roles - Part of the opportunity team, selected by the loan officer. There could be one or more people associated with each role based on the process type, taking into consideration factors such as industry, geographic region and opportunity size. The solution is flexible to adapt to more personas to be part of the team. |
| Legal Counsel |
| Risk Officer |
| Proposal Manager Administrator | Dedicated administrator(s) in the tenant authorized to handle the administration and configuration of Proposal Manager. For each opportunity that is created, the Admin has to add the add-in for the team to be able to use the solution. |

# User Interfaces

Different members of the opportunity team can interact with the solution using two different interfaces:

|  |  |
| --- | --- |
| Team Type | Description |
| Proposal Manager Team | Root team for Proposal Manager where the administrator can perform the administration and configuration of the solution and add the add-in for each opportunity. Relationship Manager has the ability to create an opportunity and Loan Officer can add or remove team members, choose deal type and upload the Proposal Document template used for the opportunity from this team |
| Opportunity Team | A team is formed in MS Teams for each opportunity, and all members of the opportunity team are automatically added to the same. Each Team consists of different channels to facilitate collaboration, and the Proposal Manager add-in enables specific process steps across all personas on each of the channels |

# Key Entities

The Proposal Management process is built around three main entities – the Opportunity that gets processed by an internal team, the specific process/workflow identified to validate and move the opportunity forward, and the associated Proposal that is prepared as an outcome of the process.

**Opportunity**

An Opportunity is a potential deal identified by the Relationship Manager for one of his/her own clients based on knowledge gathered from customer discussions and market analysis. He then uses the Proposal Manager application to convert the opportunity, by means of well-defined corporate lending processes and a hand-picked team of experts brought together to execute the process, to a proposal document that can then be presented to the customer, offering a loan or line of credit that they can use in line with the terms and conditions.

Opportunity consists of the following key details:

* Client Information
* Relevant notes and documents
* Specific info for lending process

Opportunity is considered as Complete when a decision has been taken on the proposal by the customer.

**Workflow**

Specific process to be followed for an opportunity is based on the type of loan determined to be the optimal fit as per the loan officer, who takes the decision based on different considerations such as deal size, past history with the client and other details. The solution supports different types of work flows that can be created from the Deal Types section in the Configuration channel in the Proposal Manager team.

**Proposal Document**

Proposal document, to be presented to the customer by the Relationship Manager, for the customer’s review and decision is the final deliverable from the Proposal Management process for each opportunity. Each loan type and process can be associated with a template chosen by the loan officer at the beginning of the process.

A proposal document is composed of clearly defined sections, each with a specific purpose and expected set of details to be updated based on inputs gathered from documents or information obtained from different steps of the process. Owners are identified for each section based on which step of the process is associated with the same. Loan Officer owns the end-to-end process for preparation of a formal document, that is then handed off to the Relationship Manager.

# User Permissions

Different types of users with associated permissions are as follows:

* Regular user
  + profile, User.ReadBasic.All, mail.send
* App Admin user (user that adds the add-in for each opportunity)
  + profile, User.Read.All, mail.send, Sites.ReadWrite.All, Files.ReadWrite.All, Group.ReadWrite.All
    - The above permissions needs to be granted by a tenant admin (via admin consent)
* App context
  + Email, profile, User.Read.All, Mail.Send, Sites.ReadWrite.All, Files.ReadWrite.All, Group.ReadWrite.All, Directory.ReadWrite.All
    - The above permissions needs to be granted by a tenant admin (via admin consent)
* Tenant admin
  + Grants the permissions as noted above and config/deploy the system
  + Authorize the app in Azure and initial SharePoint site (details in deployment guide)

# Proposal Management Process

This section details the end-to-end process and defines how each team member interacts with the solution as part of the process.

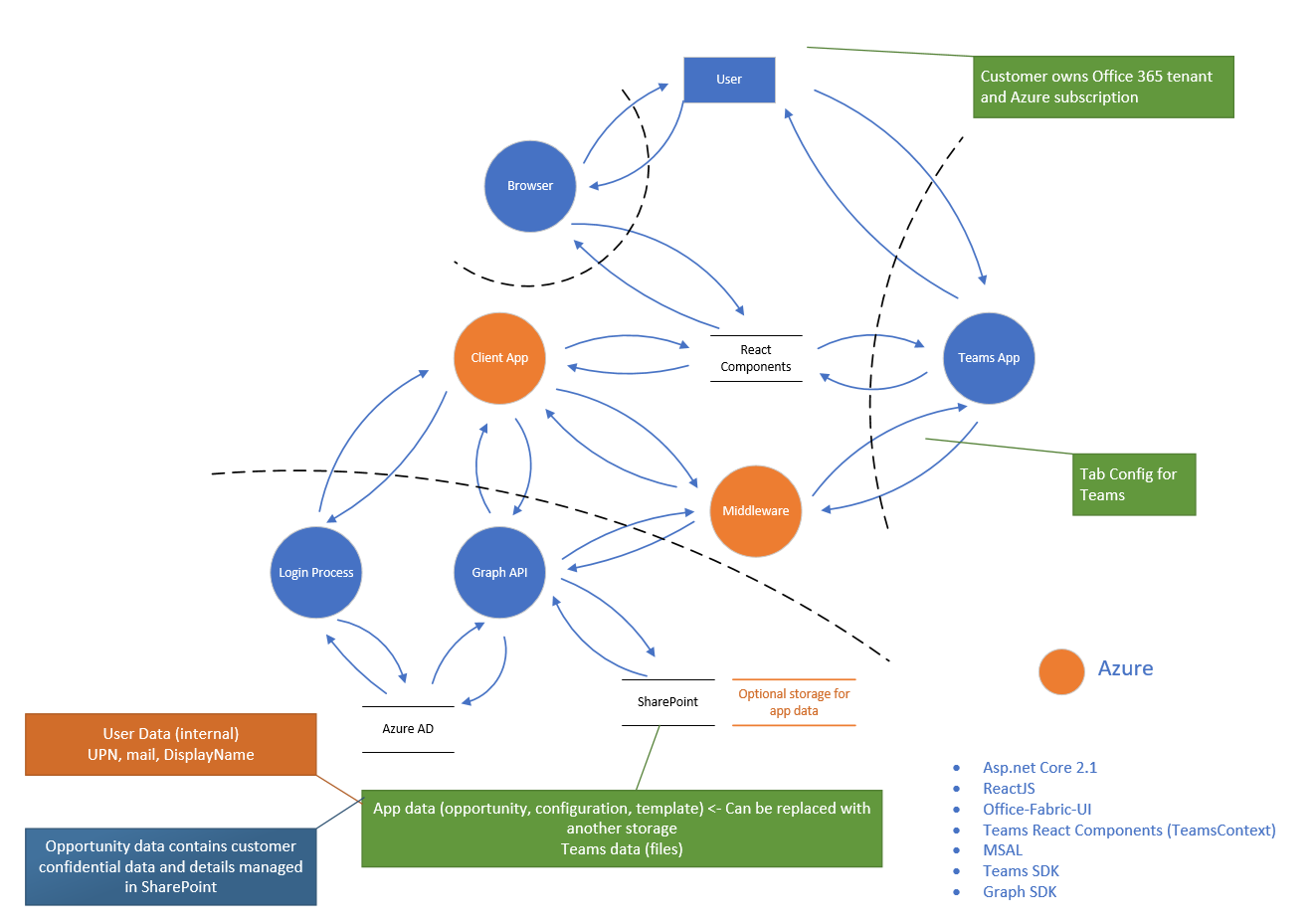
# High Level Workflow

At a high level, the process starts with identification of an opportunity and ends with the customer taking a decision on a proposal document prepared during the course of the process.

1. Relationship Manager identifies a corporate lending opportunity for one of his/her clients and creates a new opportunity using the Proposal Manager application
2. Opportunity is assigned to a loan officer who identifies the process to be followed and forms a team
3. Team members collaborate and perform their assigned responsibilities at different stages of the process to prepare a Proposal document
4. Relationship Manager presents the proposal document to the client for review and decision
5. Client conveys his decision on if the proposal has been Accepted or Rejected

# Data Flow

Shared below is a high-level data flow showcasing the different components and how they interact with each other:



# User Interaction Flow

This section details the interaction experience for each persona.

### Proposal Manager Team Experience

Relationship Manager 🡺 Group with “Opportunity\_Create & Opportunity\_ReadWrite\_ALL” Permissions

Relationship Manager owns the opportunity, from creation to closure.

1. Relationship Manager identifies an opportunity and creates it in the system
   1. Documents can be uploaded as part of the opportunity creation process, which gets copied to the General channel in corresponding Team once created
   2. Metadata defined during the opportunity creation process cannot be updated later
2. Sees a list of all opportunities associated with the user in the Opportunities list
3. Select an opportunity to see a summary view of the opportunity, with all relevant information and quick access to team members
4. For each opportunity:
   1. Review process workflow at a high level
   2. Add/update notes about the opportunity, visible only to the Relationship Manager
   3. Assign loan officer if not assigned, or Change loan officer

Loan Officer 🡺 Group with “Opportunity\_DealType & Opportunity\_ReadWrite\_ALL” Permissions

Loan Officer owns the Proposal Document, from identification to formalization.

1. Sees a list of all opportunities associated with the user in the Opportunities list
2. Select an opportunity to see a summary view of the opportunity, with all relevant information and quick access to team members
3. For each opportunity:
   1. Choose the deal type, which triggers the following steps:
      1. Create a Team with same name as opportunity
      2. Create pre-defined channels in each team, based on the process steps in the deal type, each with a specific purpose
      3. Copy documents uploaded at the time of opportunity creation to the Files tab in the General channel
   2. Select team members for each role and finalize the team working on the opportunity
   3. Review process workflow at a high level
   4. Edit team by adding or removing specific team members

Proposal Manager Administrator 🡺 Group with “Administrator” Permissions

Administrator is a designated admin on the tenant who is authorized to manage the administration of the solution and add the add-in for teams associated with new opportunities

1. Access Administration page from the Administration channel in the Proposal Manager
2. For opportunities listed in ‘Requires Action’ tab, review opportunities with status ‘Creating’, and click on the Action button, which automatically adds the Proposal Manager add-in to the Team corresponding to the selected opportunity

Other Personas

All other personas are not currently supported by default in the Proposal Manager Team. This can be overridden in Generic Accelerator by defining role mappings accordingly.

### Opportunity Team Experience

A Team is formed in MS Teams for each opportunity, with everyone working on the opportunity added as members.

A custom add-in, Proposal Manager, facilitates the process within Teams. The add-in can be loaded automatically for each Team associated for an opportunity by following the configuration steps [here](#_Load_Proposal_Manager). This add-in needs to be shared with the team members by the administrator and should be added to all the channels manually by Relationship Manager or Loan Officer. Every channel in Teams have Conversation and Files tabs by default, which facilitates the collaborative experience.

The Team for an opportunity, consists of the following channels by default, each with a tab for Proposal Manager add-in, which in turn consists of one or more sections.

|  |  |  |
| --- | --- | --- |
| Channel | Section | Description |
| General | Workflow | * Overview of the process workflow with the owner and status for each step |
| Team Updates | * Team overview, with quick access links, and status |
| Channel for each process step in the deal type | Checklist | Example channels in line with the three personas listed as examples in [User Personas](#_15.1_User_Personas)   * Checklist for each process step * Ability to upload documents or download uploaded documents for each checklist item * Mark status as Completed, In Progress or Blocked at the process level |
| Formal Proposal | Proposal Status | * Overview of the status of different sections of the proposal document, updated by the loan officer |
| Customer Decision | Customer Decision | * Decision by the customer on the final proposal and the details of loan disbursement, if applicable |

# Extensibility

Proposal Manager is designed to be extensible to support potential new requirements for partners and customers across multiple industry verticals and regions.

# Maintenance

This section details some of the common maintenance scenarios.

### Update AD users and groups

Managing users and their roles are a key administrator responsibility.

The activities in this regard can all be performed from the Office 365 Admin portal at https://portal.office.com/adminportal

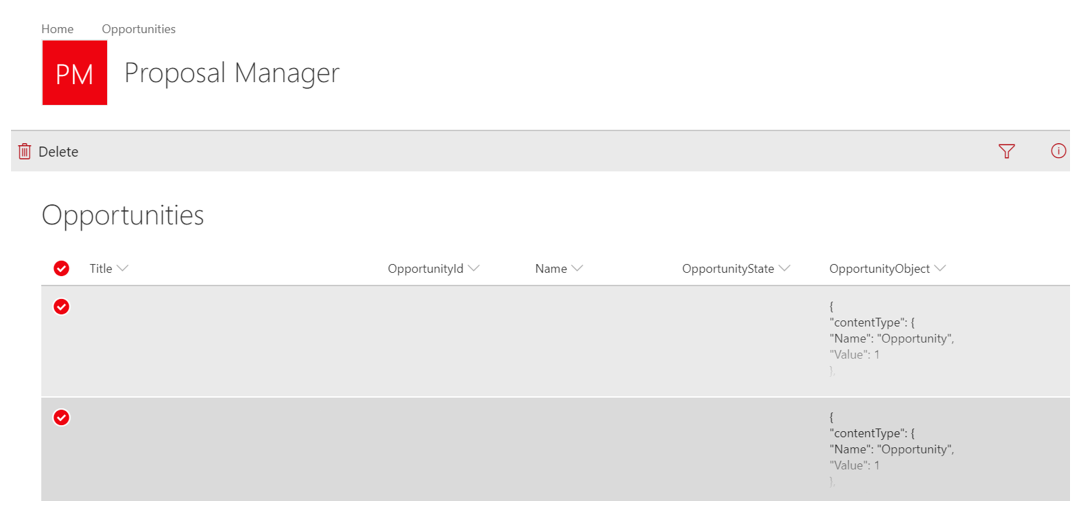
|  |  |
| --- | --- |
| Add a new user | On the admin portal, click on Add a user under the Active Users section, provide required details and click on Add    Navigate to the Groups list at https://portal.office.com/adminportal#/groups and add the newly added user to the group corresponding to their role |
| Update user role | Navigate to the Groups list at https://portal.office.com/adminportal#/groups and add or remove users from the groups corresponding to their role |
| Remove user | On the admin portal, click on Delete a user under the Active Users section |

### Clear SharePoint site

It may sometimes be necessary for the administrator to clear the list of opportunities from the system, such as for archiving reasons or to reset a test or prototype environment.

To delete all opportunities from the application, so as to have a clear dashboard for all users, proceed as follows:

* Navigate to the SharePoint site setup for Proposal Manager, and select the list for Opportunities
* Choose Select All from the top left of the list, and then click Delete.



Note that when cleaning up the Opportunities list, it is recommended to also delete the corresponding Teams manually by logging into Microsoft Teams.

### Update master data

An admin can maintain master data stored in SharePoint lists via the Settings pages accessible from the Configuration channel in the Proposal Manager team.

# Security Considerations

After app has been deployed and tested and before going live, the following steps are recommended for the production environment:

* Lockdown SharePoint site: Remove all users from members list.
* Replace app secret with certificates as detailed in Azure AD [guidelines](https://docs.microsoft.com/en-us/azure/active-directory/develop/active-directory-protocols-oauth-service-to-service).

# Troubleshooting

Please refer to the **Proposal Manager Troubleshooting Guide** for troubleshooting guidance on some potential issues that you can encounter during deployment, configuration or use.

Local Test and Debug

To test the solution locally against the application setup in the tenant, update the appsettings.json appropriately as indicated above, and then set the BaseURL to a local value such as https://localhost:44385/ Make sure that this is added as a valid reply-to URL in the application as detailed [here](#_Registering_Time_Tracker)

Before building the solution for the first time, take care to navigate to .\WebReact\ClientApp from the command line, and run npm install to install all dependencies

Now run the application in Debug mode from Visual Studio by using the debug controls.

[Debugging in Visual Studio](https://docs.microsoft.com/en-us/visualstudio/debugger/index)

# Known Issues

Please refer to the **Proposal Manager Troubleshooting Guide** for a list of known issues.

# Appendix A: Manual Deployment

# Setup Azure App Service

In this section, we set up an app service on Microsoft Azure to deploy the solution. Make sure that you have contributor access on the Microsoft Azure subscription where the web application is planned to be deployed and made available to the users.

# Azure App Registration

First step is to create the web application where users can access the Proposal Manager application. Make sure that you have Owner or Contributor access on the Azure subscription before proceeding.

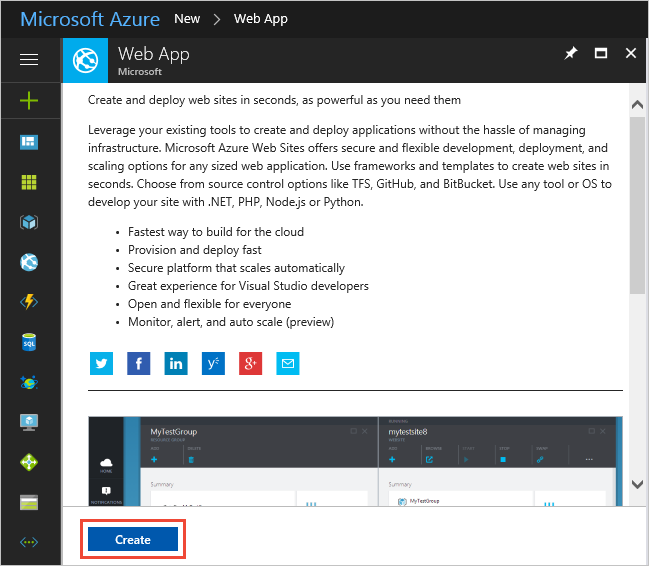
Sign into [Microsoft Azure portal](https://portal.azure.com/).



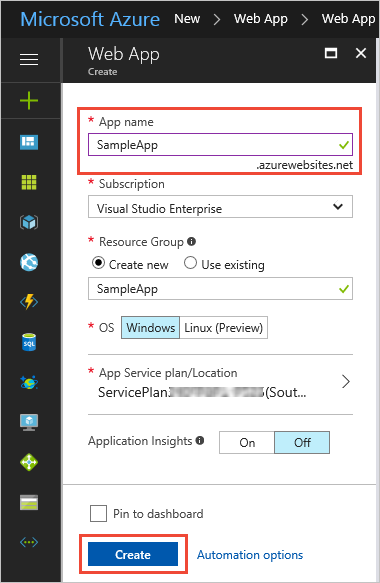
Choose the **+** icon in the left navigation bar, then choose **Web App**.



If you don't see **Web App** in the list, use the search box to find it. At the bottom of the introduction page, choose **Create**.



Enter a name for the new web app. You'll see a green checkmark when the name is unique. Then choose **Create**.



# Application Insights

In case you would like to monitor the live web application, at least initially, it is a good idea to leverage Azure Application Insights. This can be configured from the Azure Portal, Application Insights tab. Take care to note the Instrumentation ID.



**Confirm Azure web app deployment status**

Go to the newly created app service and click on the app URL. A default landing page will be displayed if the app service has been successfully setup.



# Register Proposal Manager App

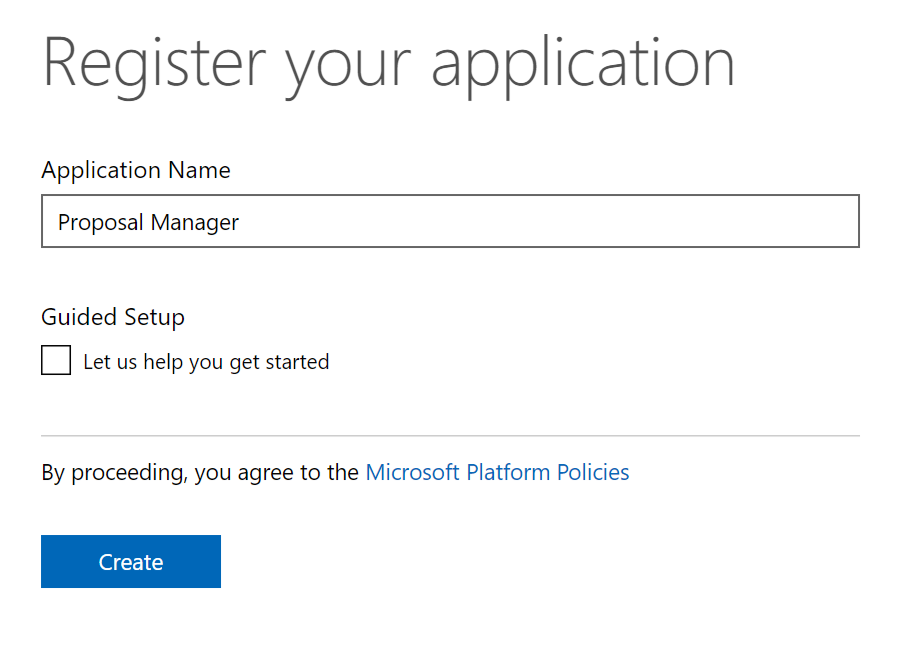
# Register App

First, we need to register the “Proposal Manager” app to enable users in the organization to access the solution and to facilitate communication between the dashboard and the solution implementation.

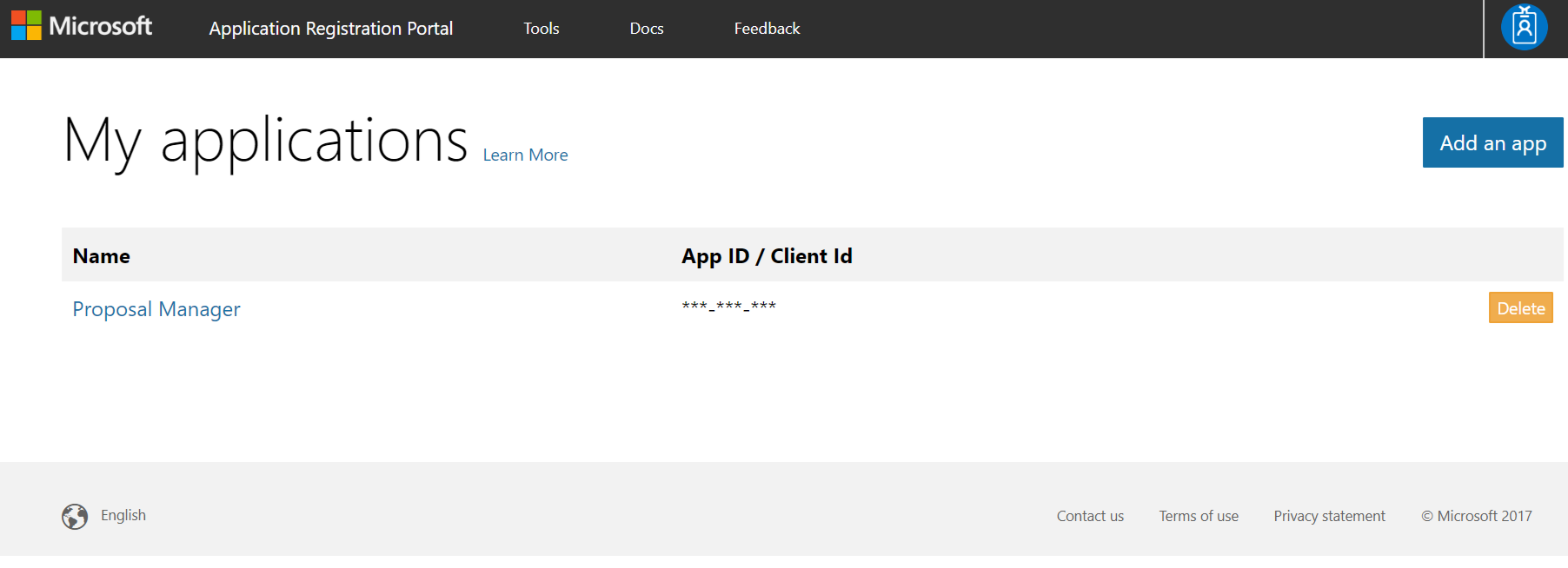
1. To access the Application Registration Portal, go to <https://apps.dev.microsoft.com> and login using your **Office 365 tenant admin account.**
2. Click on **Add an app.**



1. Give an appropriate name, say **‘Proposal Manager’** and Click **Create**. **Note the Application Id**



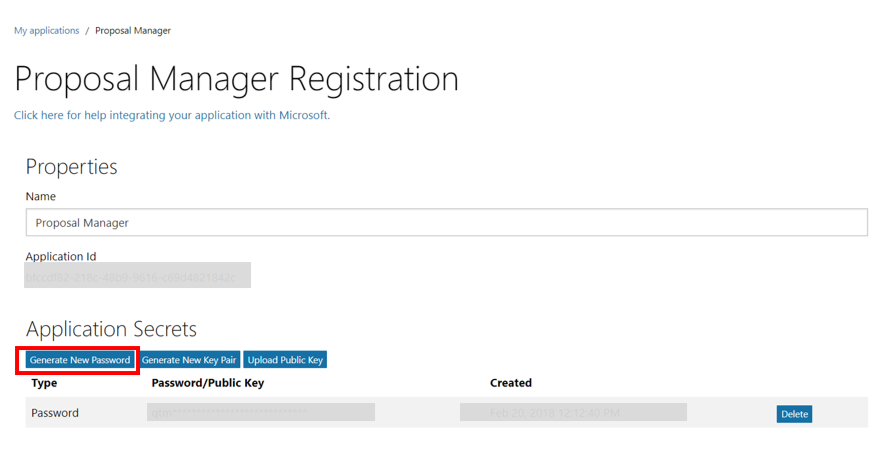
1. Once it is registered you will see it listed as shown below.



# Configure Application Registration

Now let’s configure the Proposal Manager Azure Registration using the following details below:

1. Property Name: Enter the name of your application if needed.
2. Application ID: **Note down the Application Id** for future use, this will need to be updated as Client Id in appsettings.json and Appsettings.js.
3. Application Secret: Click on ‘Generate New Password’ and **note down the Application Secret** that will need to be updated as Client Secret in appsettings.json and Appsettings.js.



Ensure you note the Password\Public Key which will be needed. If this is lost, another key will need to be generated to configure the application.

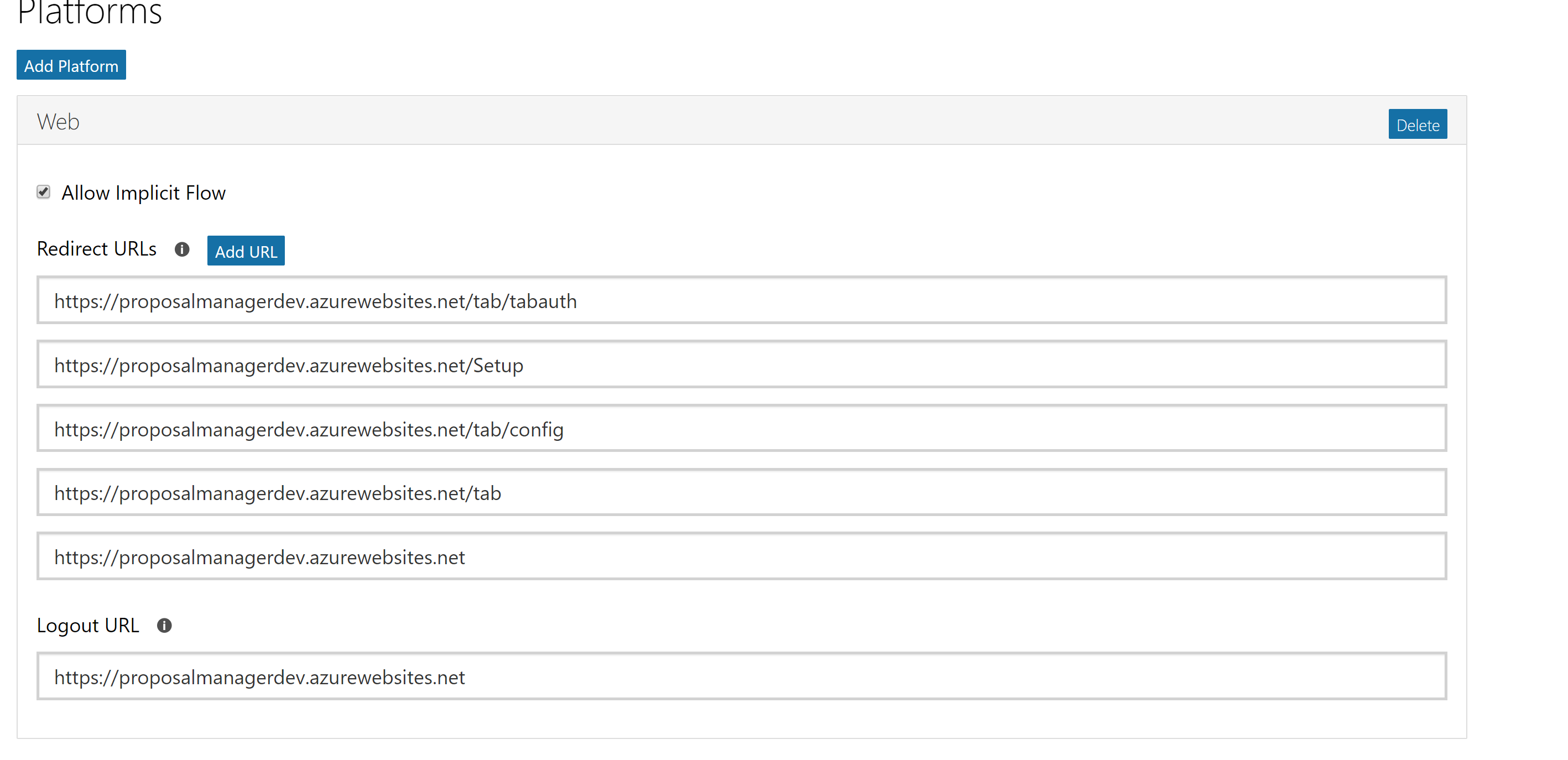
1. Platform: In the Platform section select Web Platform option and continue with its configuration
2. Identify the web URLS that will be needed as shown below example:

Check 'Allow Implicit Flow'. In the Redirect URLs section, add the URLs that are indicated as allowed for the Proposal Manager web application, once deployed

For example, if the Azure web site is created as https://proposalmanagerdev.azurewebsites.net, take care to add the following:

* https://proposalmanagerdev.azurewebsites.net
* https://proposalmanager.azurewebsites.net/tab
* https:// proposalmanagerdev.azurewebsites.net/tab/tabauth
* https:// proposalmanagerdev.azurewebsites.net/tab/config
* https:// proposalmanagerdev.azurewebsites.net/Setup

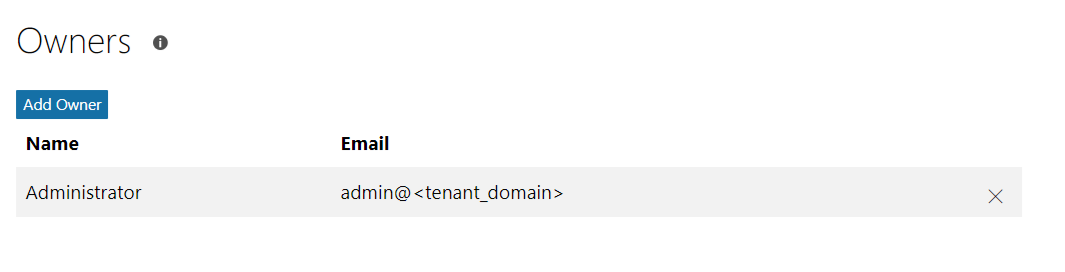
Note that the Redirect URLs are **case-sensitive**. Screen will look something like this:



1. Recommended logout URL is https://proposalmanagerdev.azurewebsites.net/
2. Now we need to add another section, click on Web API under platforms and add scope as follows:

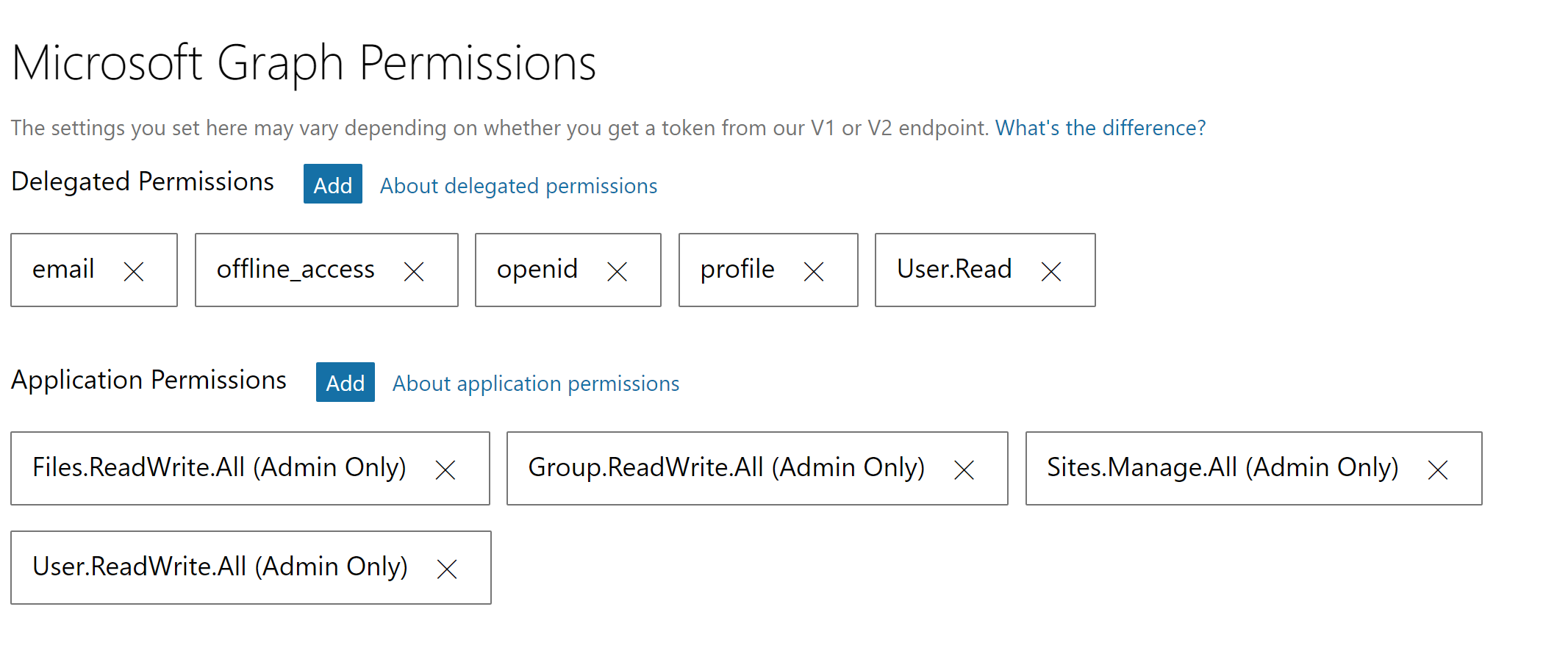
**api://<application id>/access\_as\_user**

1. Identify your Owners: This section defines who all have access to update the application configuration from the Application Registration Portal.

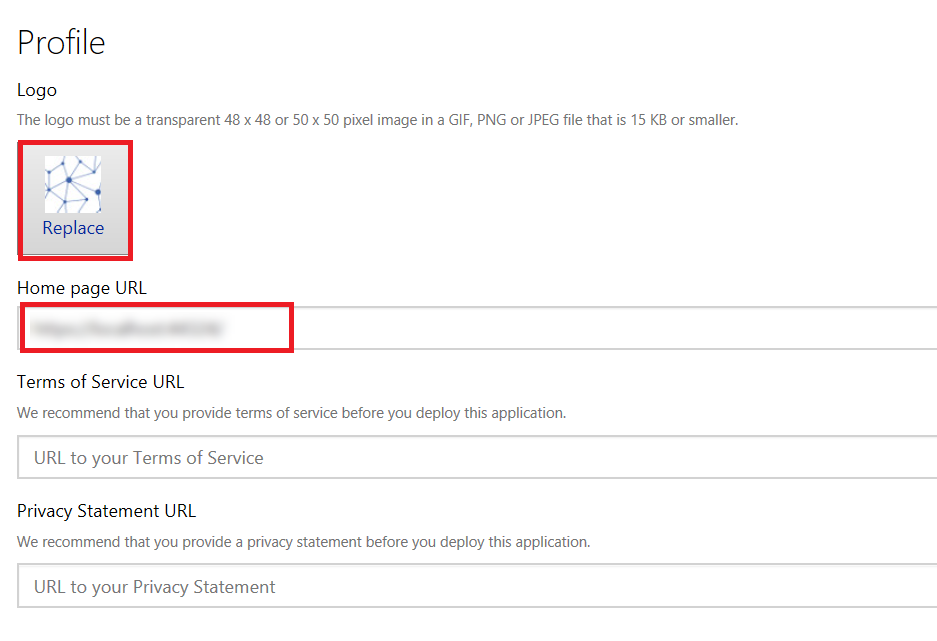


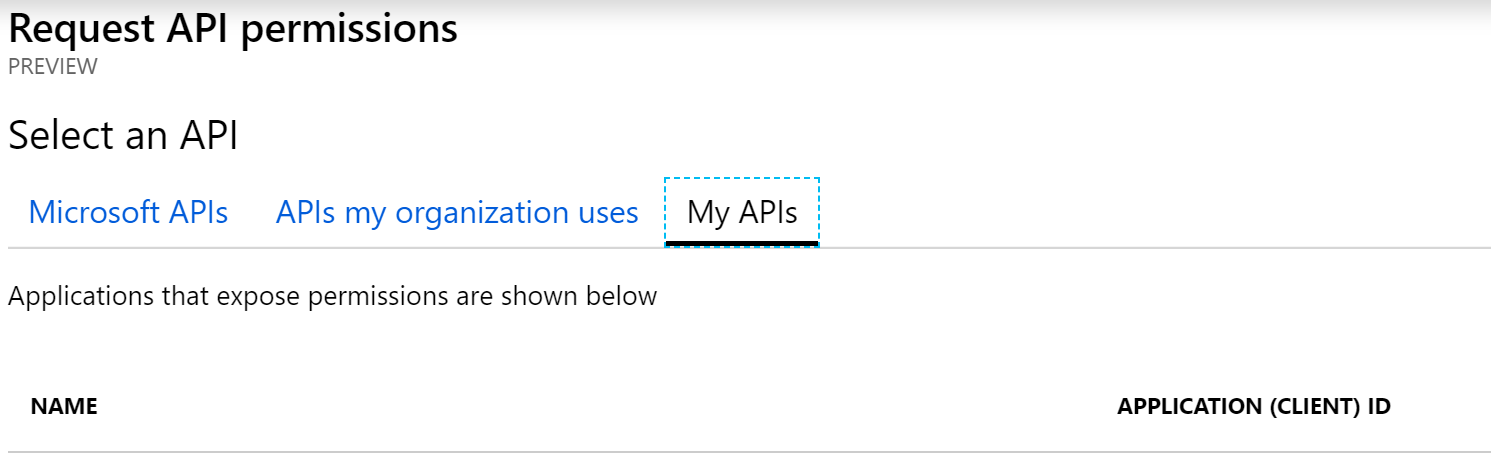
1. Identify Microsoft Graph Permissions as shown below:

Set appropriate **Delegated Permissions** and **Application Permissions** by Clicking **Add.** See below for permissions to set for Proposal Manager.



1. Identify your Home Page URL, Terms of Service URL and Privacy URL as needed
2. In the Profile selection, choose the logo that you would like to use and specify the home page URL as the web application URL that you plan to deploy the proposal manager solution to



1. Save Settings to finish the process
2. Go to <https://portal.azure.com/>
3. Select Azure Active Directory and then select **App registrations (Preview)**
4. Select the app which we created in <https://apps.dev.microsoft.com>
5. Go to API Permissions 
6. Click on Add a permission   
   
7. Click on the App Registration which we created in <https://apps.dev.microsoft.com>
8. Check the access\_as\_user permission and then click add permission

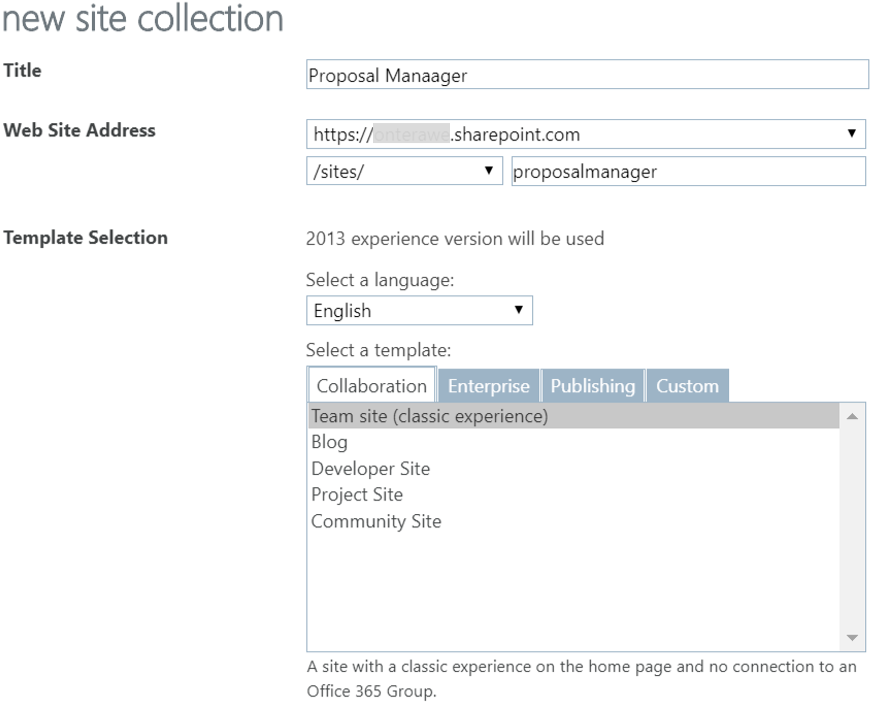


Later, after publishing the application as detailed [here](#_Publish_to_Azure), you will need to come back to this screen to ‘Grant admin consent’ on behalf of all users.

# SharePoint Configuration

In this section we will go over how to setup and configure SharePoint to be used as a repository to store information on opportunities. First step is to create a SharePoint site collection.

Access SharePoint Management portal at **https://<tenant>-admin.sharepoint.com**. Create a new site, say, Proposal Manager.



**Note:** If you are using the new version of SharePoint, which is currently in Preview (as of October 2018), you will need to select “New Team Site”.

Note down the site root host name and the relative name, which in this case is <tenant>.sharepoint.com and ‘ProposalManager’ respectively. This information will be needed in the solution setup step.

Add the Admin user as an owner on the site:

https://<tenant>.sharepoint.com/sites/ProposalManager/\_layouts/15/people.aspx?MembershipGroupId=3

Example:



The user who created the site will automatically be added to this group.

# Setup Office 365 Groups

Proposal Manager requires the users to be added to role-specific groups to facilitate access with required permissions.

Note that the group names given below are indicative examples. Any group name can be used based or organizational mapping. This can be mapped to roles defined in the application at the time of deployment.

|  |  |  |
| --- | --- | --- |
| Example Group Name | Purpose | Type |
| Relationship Managers | Relationship Managers, who are authorized to create opportunities | Office 365 |
| Loan Officers | Loan Officers, who manage assigned opportunities, including selecting proposal document template | Office 365 |
| Legal Counsel | Legal Counsel for an opportunity who take care of compliance review | Office 365 |
|  | Risk Officers for an opportunity who take care of risk assessment | Office 365 |
| Credit Analysts | Credit Analysts for an opportunity who take care of credit check | Office 365 |
| Proposal Management Administrators | Administrators who are authorized to create Microsoft Teams and associated channels for an opportunity. Note that members of this group should have ‘Global Administrator’ role in the Office 365 tenant | Security |

To create Office 365 groups:

* Go to <https://portal.azure.com> (login as Office 365 tenant admin)
* Select Azure Active Directory tab from the left navigation menu (or choose from the 'All services' list)
* Choose Groups and click on 'New group'



Ensure that users who require access to the solution are added to the relevant groups.

**Note**: Default groups are created as part of the automated deployment process, which can be customized in the deployment scripts based on business scenario

# Create custom add-in for Teams

To be used with Proposal Manager, the app needs to be packaged as detailed [here](https://docs.microsoft.com/en-us/microsoftteams/platform/concepts/apps/apps-package).

A Teams app package is a .zip file containing the following:

* **A manifest file named "manifest.json", which specifies attributes of your app and points to required resources for your experience, such the location of its tab configuration page or the Microsoft app ID for its bot.**
* A transparent "outline" icon and a full "color" icon.

The app package is automatically created as part of the automated deployment covered [here](#_Automated_Deployment).

To create a package manually, define the manifest schema for the custom add-in, as detailed [here](https://docs.microsoft.com/en-us/microsoftteams/platform/resources/schema/manifest-schema).

An example manifest for Proposal Manager solution is shared below (take care to replace <app\_name> appropriately based on the URL for accessing the solution.

{

  "$schema": "https://statics.teams.microsoft.com/sdk/v1.2/manifest/MicrosoftTeams.schema.json",

  "manifestVersion": "1.2",

  "version": "1.0.0",

  "id": "<id>",

  "packageName": "com.microsoft.proposalmanager",

  "developer": {

    "name": "GoLocal Solutions",

    "websiteURL": "https://<app\_name>.azurewebsites.net/",

    "privacyURL": "https://<app\_name>.azurewebsites.net/tab/privacy",

    "termsOfUseURL": "https://<app\_name>.azurewebsites.net/tab/termsofuse"

  },

  "icons": {

    "color": "color.png",

    "outline": "outline.png"

  },

"name": {

"short": "Proposal Manager",

"full": "Proposal Manager Add-in for Microsoft Teams"

},

"description": {

"short": "Proposal Manager GoLocal Solution",

"full": "Proposal Manager GoLocal Solution"

},

  "accentColor": "#FFFFFF",

  "configurableTabs": [

    {

"configurationURL":"https://<app\_name>.azurewebsites.net/tab/config?channelName={channelName}&teamName={teamName}&groupId={groupId}&channelId={channelId}&upn={upn}",

      "canUpdateConfiguration": true,

      "scopes": [

        "team"

      ]

    }

  ],

  "permissions": [

    "identity",

    "messageTeamMembers"

  ],

  "validDomains": [

    "<app name>.azurewebsites.net",

    "login.microsoftonline.com"

  ]

}

# Deploy Solution

Download the latest source code from <https://github.com/OfficeDev/ProposalManager> and proceed as detailed below.

Proposal Manager follows a two-step deployment process:

Step 1: Update the core app settings

* appsettings.json (relative path : WebReact\appsettings.json)
* Appsettings.js (WebReact\ClientApp\src\helpers\AppSettings.js)

Step 2: Publish to Azure, which enables one to access the Setup page

Step 3: [Use the Setup page for a guided setup experience](#_Guided_Setup), which will take care of completing the required configuration to get the solution fully functional

To start, get a local copy of the latest version of the source code and open the solution in Visual Studio.

# 6.1 Update App Settings

Open appsettings.json located at (.\WebReact\) and update as follows. Note that the property values not mentioned in the below table can be left as-is and will be updated automatically during the setup process.

|  |  |  |
| --- | --- | --- |
| Property | Description | Example Value |
| **AzureAd** |
| ClientId | This is the unique ID of the service principal object associated with the application, which is the application id in application portal. | "<client\_id>" |
| ClientSecret | Client secret for the app registered in tenant | <Noted from the Application Registration portal - apps.dev.microsoft.com> |
| Instance | Public Instance name for AAD | "https://login.microsoftonline.com/" |
| Domain | Domain name of the tenant | “<tenant\_domain>” |
| TenantId | Login into Azure portal as tenant admin account (Office 365 admin account) and go to properties and get Directory Id | "<tenant\_id>" |
| CallbackPath | Landing page for the app after authentication | "/signin-oidc" |
| Authority |  | "https://login.microsoftonline.com/<tenantid>" |
| BaseURL | Return URL for the app after authentication, this should match one of the reply-to URLs specified in the app manifest | "https://<app\_URL>.azurewebsites.net" |
| Scopes | Application scope | “https://graph.microsoft.com/.default“ |
| GraphResourceId | Public end-point for Graph API | "https://graph.microsoft.com/" |
| GraphScopes | Scope required by the application for accessing Microsoft Graph | “email User.Read.All” |

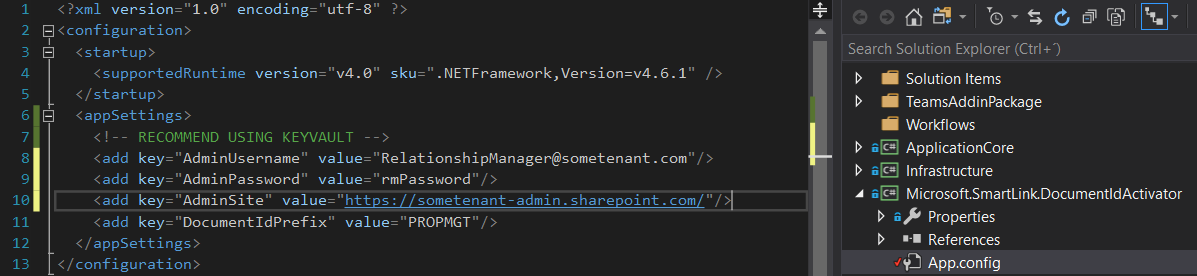
# 6.2 Update Client App Settings

Open appsettings.js located at .\WebReact\ClientApp\src\helpers and update the fields indicated below. Take care to retain the scopes as indicated:

|  |
| --- |
| /\*  \* Copyright (c) Microsoft. All rights reserved. Licensed under the MIT license.  \* See LICENSE in the source repository root for complete license information.  \*/  // General settings  export const appUri = ''; //Base URL generated by Azure for the web service.  // This Section is Required to be updated before the initial publish to Azure.  export const clientId = ''; //Registered Application Id from apps.dev.microsoft.com.  export const redirectUri = appUri + "/"; //Redircet URL used at authentication.  export const instanceId = 'https://login.microsoftonline.com/';  export const graphScopes = ["offline\_access", "profile", "User.ReadBasic.All", "mail.send"]; //User scopes defined at app registration.  export const graphScopesAdmin = ["offline\_access", "profile", "User.Read.All", "mail.send", "Sites.ReadWrite.All", "Files.ReadWrite.All", "Group.ReadWrite.All", "AppCatalog.ReadWrite.All"]; //Application scopes defined at app registration.  export const webApiScopes = ["api://<clientId>/access\_as\_user"];// web Api scope generated at app registration from apps.dev.microsoft.com.  export const authority = "https://login.microsoftonline.com/<tenantId>"; // Null for login as common (multi-tenant also) eg. https://login.microsoftonline.com/common/oauth2/v2.0/authorize  //No need to update anything bellow these are placeholders  const generalProposalManagementTeam = ""; //The Proposal Manager general team name that contains all the administration functionality.  const teamsAppInstanceId = ""; //Id of the Proposal Manager application instaled in teams.  const localStorePrefix = "env1\_"; //Local Store Prefix.  const teamsAppName = ""; //The short Name specified in the appllication manifest file.  const reportId = ""; //PowerBI Report Id.  const workspaceId = ""; //PowerBI WorkSpace Id.  export const appSettingsObject = {  generalProposalManagementTeam,  teamsAppInstanceId,  localStorePrefix,  teamsAppName,  reportId,  workspaceId  };  export default appSettingsObject; |

# 6.3 Configure Document ID Activator

The Proposal Creation add-in relies on a unique Document ID to map the Proposal Document to an opportunity. For this, it is required enable the Document ID feature for each new opportunity. You will find a WebJob that does just that, included in the solution; the project is called Microsoft.SmartLink.DocumentIdActivator. To set it up, open App.config, and set up the values like displayed in the following figure:

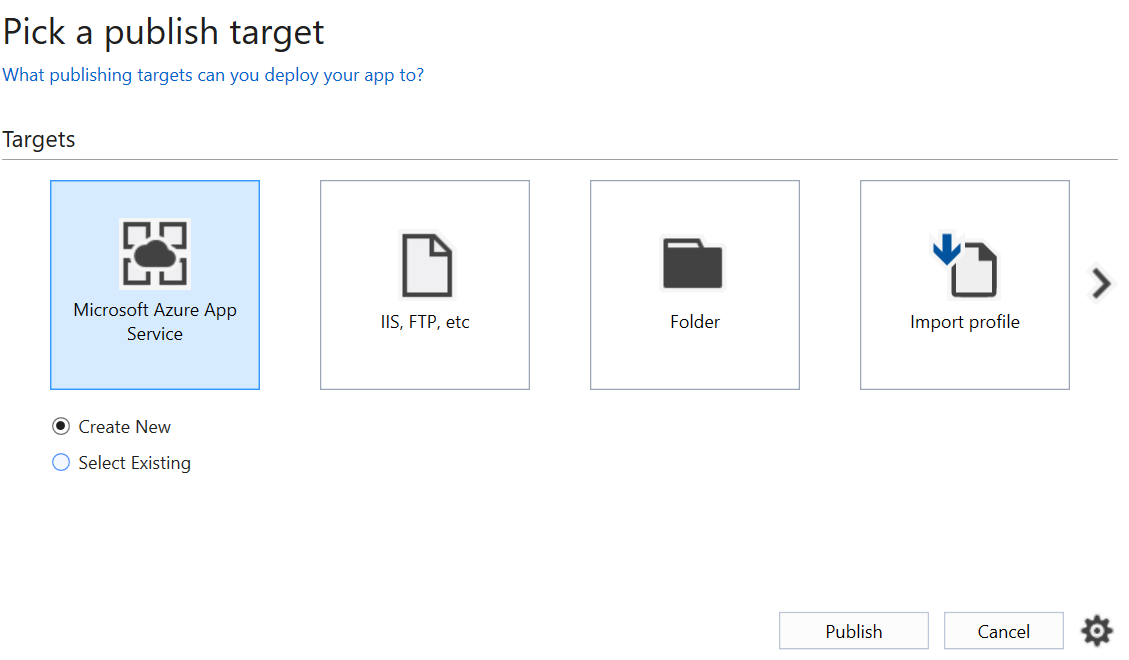


The credentials stored here need to be of a user who has access to the opportunities and has the SharePoint administrator role. We recommend using the Relationship Manager for this, and storing the credentials in a more secure place, like Azure KeyVault.

# Publish to Azure

Choose Build 🡪 Publish Solution to build and deploy the solution to Azure from the Publish UI.

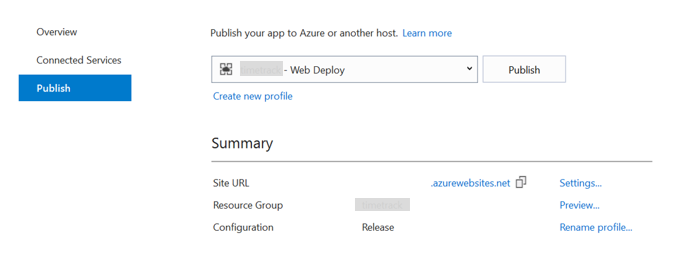
* Select the New Publish profile option and choose Azure App



* Logon using the Azure account that you used to setup the application
* Select the Resource Group where the application is setup and expand, then choose the application



* Click on Publish to deploy the application to the Azure app service



Once publish is completed, the web application is automatically launched on the default browser.

# Accept Application Consent as Admin

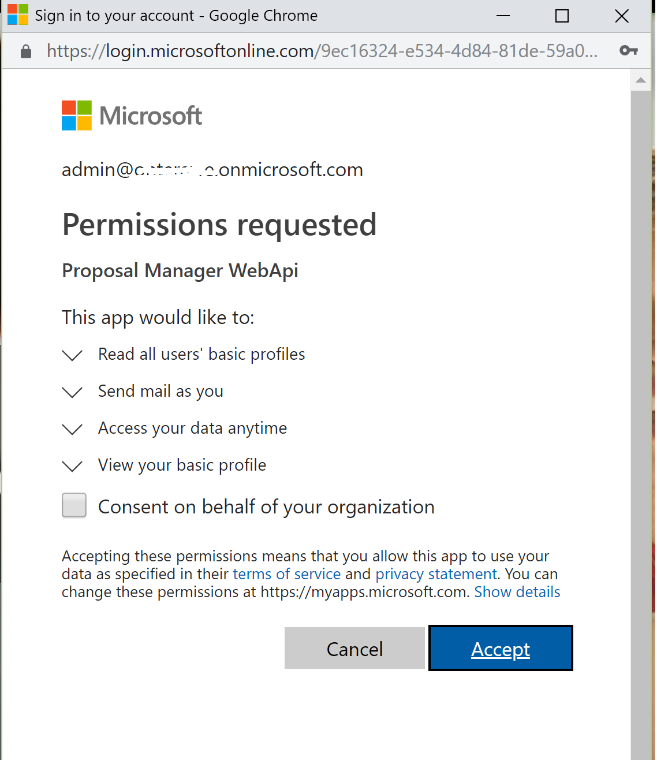
Once the application is deployed, logon as the admin user at https://<app>.azurewebsites.net and accept the prompt.

Following this, go to https://portal.azure.com/, select Azure Active Directory and then select App registrations (Preview). Select the app associated with the application and go to API Permissions as detailed [here](#_3.2_Configure_Application). Click on ‘Grant admin consent for’ to enable the administrator to grant consent on behalf of all users in the tenant directory.



This enables the admin to bypass the consent screen for all other end users accessing the application.

Following this access https://<app>.azurewebsites.net and accept the prompt.



Click Accept on the list of permissions that show up. This enables the administrator to set consent on the application context. Once this step is completed, sign in.

You will get another admin consent page for Setup, which will also need to be accepted to proceed.

This sets application permissions across all users in the tenant, which will enable any user to login and use the app after the setup process has been completed.

# Appendix B: Permissions List

This section gives an overview of the different permissions that can be set for an AD Group from the Role Mapping list page to setup granular access control. The App is shipped with permissions given below. When you create a new process type, two more process will get added.

|  |  |
| --- | --- |
| Permission | Permitted Actions |
| Opportunity\_Create | Create an opportunity |
| Opportunity\_Read\_All | Read everything related to an opportunity |
| Opportunity\_ReadWrite\_All | Read and write every aspect related to an opportunity (A super set of all permissions so if it exists then the user gets complete access to an opportunity). |
| Opportunity\_Read\_Partial | Read a portion of an opportunity, example credit analyst will only able to read, general area and credit check area of an opportunity |
| Opportunity\_ReadWrite\_Partial | Read and write a portion of an opportunity, example credit analyst will only able to read, general area and credit check area of an opportunity |
| Opportunities\_Read\_All | Same as Opportunity\_Read\_All, but can read every opportunity irrespective of whether the person is a team member of that opportunity |
| Opportunities\_ReadWrite\_All | Same as Opportunity\_ReadWrite\_All but can read and write every opportunity, irrespective of whether the person is a team member of that opportunity |
| Opportunity\_ReadWrite\_Team | The user can add or remove any team member disable button if this permission doesn’t exist. |
| Opportunity\_ReadWrite\_Dealtype | The deal type dropdown/Start Process will be disabled if the user doesn’t have this permission. Enable the deal type tab if this permission exists. |
| Administrator | Access to administration channel in Proposal Manager Team, and with this permission he can create dealtypes, permissions, regions, industries and categories. |
| CustomerDecision\_Read (part of the superset) | Read customer decision channel. |
| CustomerDecision\_ReadWrite (part of the super set) | Read and write customer decision channel. |
| ProposalDocument\_Read (part of the superset) | Read customer proposal document channel. |
| ProposalDocument\_ReadWrite (part of the superset) | Read and write proposal document channel. |

Example Permissions to facilitate the experience:

|  |  |
| --- | --- |
| Role | Suggested Permissions |
| Administrator | Administrator |
| RelationshipManager | Opportunity\_Create  Opportunities\_ReadWrite\_All |
| LoanOfficer | Opportunities\_ReadWrite\_All  Opportunity\_ReadWrite\_Team  Opportunity\_ReadWrite\_Dealtype |
| CreditCheck | Opportunity\_ReadWrite\_Partial  CreditCheck\_ReadWrite |

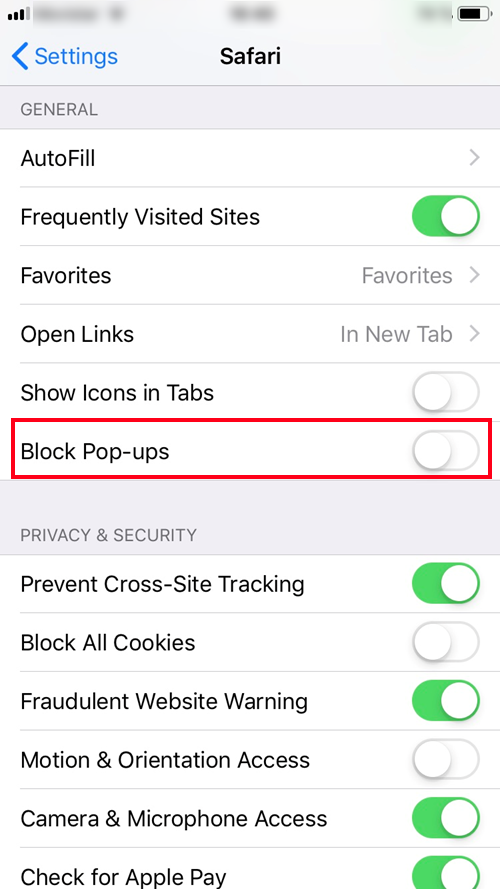
# Appendix C: Proposal Manager Mobile Experience

This section lists the steps involved in accessing Proposal Manager from the Teams Mobile app

* Login to Teams Mobile app as a user, for example, Proposal Manager Administrator
* In Teams app click on the root Proposal Manager team, say “Proposal Manager" and navigate to General -> Click on More
* In the Teams app "Proposal Manager" -> General -> click on More, then click on Proposal Manager name in the list. It opens the default browser with general page URL, and prompts for popup window -> allow pop window. Automatically, authentication window will open, we need to close this pop window manually.
* The General tab will then load, and other channels and tabs can be accessed in the same way

Note: in IOS pop-ups are blocked by default. You’ll need to enable them for accessing Proposal Manager.

Go to Settings -> Safari and disable Block Pop-ups as shown in the image below:



Shared below are a few screenshots showcasing the mobile experience of Proposal Manager:

|  |  |
| --- | --- |
| A screenshot of a cell phone  Description automatically generated | A screenshot of a cell phone  Description automatically generated |
| A screenshot of a cell phone  Description automatically generated | A screenshot of a cell phone  Description automatically generated |

# Appendix D: Reference Videos

We have published the following high-level **walk-through videos** to help with the deployment process and to get a functional understanding:

* [Proposal Manager – Automated Deployment](https://www.youtube.com/watch?v=IXEX-tgD2Lg)
* [Proposal Manager – Functional Overview](https://youtu.be/GFi4hItyy5k)
* [Dynamics 365 Integration – Automated Deployment](https://www.youtube.com/watch?v=22UyMAvEMeM)
* [Dynamics 365 and Office add-ins: Functional Overview](https://youtu.be/cQfYfxT5a-I)
* [Office Add-ins: Functional Overview](https://youtu.be/hy5TLFVum1E)
* [Proposal Manager – Dashboard Setup](https://youtu.be/ZG7WQGTgn6k)

### Reference Videos (Previous Version)

* [Dynamics 365 Integration - Deployment](https://youtu.be/hblz_GK8VNs)
* [Proposal Creation - Deployment](https://youtu.be/8AuPEAb-Trg)
* [Project Smart Link - Deployment](https://youtu.be/qNlUlCwKcto)
* [Proposal Manager – Automated Deployment](https://youtu.be/Pd62rhF6Cy0) (v1)
* [Proposal Manager – Complete Automated Deployment](https://youtu.be/_Y_SAhd3sBc) (including add-ins) (v1)
* [Proposal Manager - Configuration](https://youtu.be/WmOT6D2mQPs) (v1)
* [Proposal Manager – Manual Deployment](https://youtu.be/mlmzLMFDxcQ) (v1)
* [Proposal Manager – Functional Overview](https://youtu.be/lNjG9e9U0p0) (v1)