

TRBOnet Enterprise/PLUS OAUTH 2.0 Migration Guide

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Contents

1	Introduction	2
1.1	About This Guide	2
1.2	About TRBOnet.....	2
1.3	Contacts.....	2
2	TRBOnet Server.....	3
2.1	Incoming Mail Sever	3
2.2	Outgoing Mail Server	4
3	Google Service	5
4	Office 365 Service	8

1 Introduction

1.1 About This Guide

This document describes the steps that must be followed to migrate to the OAUTH 2.0 protocol that is used for authorization when accessing email services.

1.2 About TRBOnet

TRBOnet is a suite of professional applications for MOTOTRBO digital two-way radio networks. TRBOnet manages voice and data communication paths across network endpoints. It provides a unified graphical dispatcher workbench interface for the entire range of workforce fleet management tasks.

For more information about TRBOnet products, refer to our [website](#).

1.3 Contacts

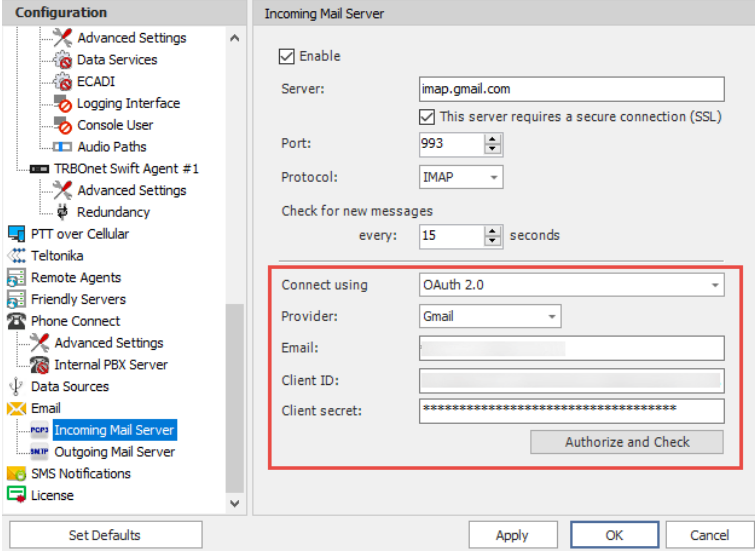
Region	Phone	Email & Support
EMEA	+44 203 608 0598	info@trbonet.com — general and commercial inquiries
Americas	+1 872 222 8726	support@trbonet.com — technical support
APAC	+61 28 607 8325	https://trbonet.com/kb/ — online knowledge base

2 TRBOnet Server

This section contains step-by-step instructions on configuring email services in TRBOnet Server to comply with OAUTH 2.0

2.1 Incoming Mail Sever

- In the **Configuration** pane, under **Email**, select **Incoming Mail Server**.

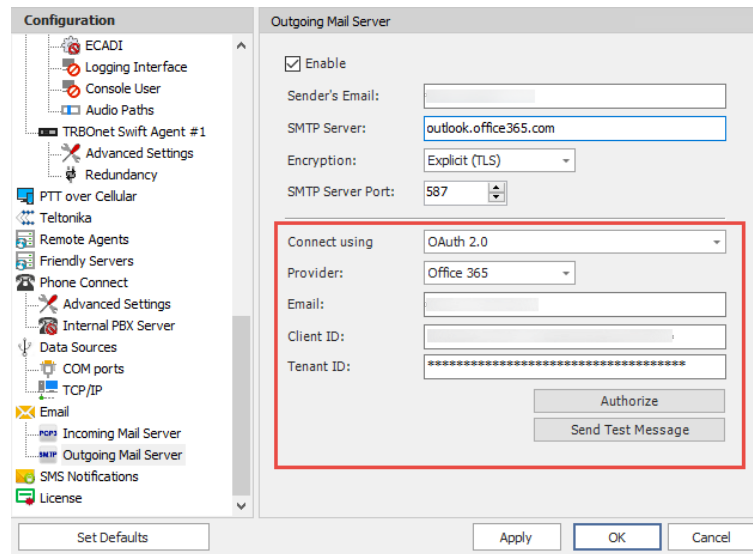


The screenshot shows the configuration window for the Incoming Mail Server. The left pane shows the configuration tree with 'Incoming Mail Server' selected under 'Email'. The right pane shows the configuration settings for the Incoming Mail Server, including 'Enable', 'Server', 'Port', 'Protocol', 'Check for new messages', and 'Connect using' (set to OAuth 2.0). The 'Connect using' section is highlighted with a red box.

- In the right pane, specify the following OAuth-related parameters:
 - **Connect using**
From the drop-down list, select **OAuth 2.0**:
 - **Provider**
From the drop-down list, select either **Office 365** or **Gmail**.
 - **Email**
Enter the email address.
 - If **Gmail** is selected as the email provider, enter the **Client ID** and **Client secret** (obtained [in this section](#)).
If **Office 365** is selected as the email provider, enter the **Client ID** and **Tenant ID** (obtained [in this section](#)).
 - **Authorize and Check**
Click this button to authorize your email account and check for new emails.

2.2 Outgoing Mail Server

- In the **Configuration** pane, under **Email**, select **Outgoing Mail Server**.

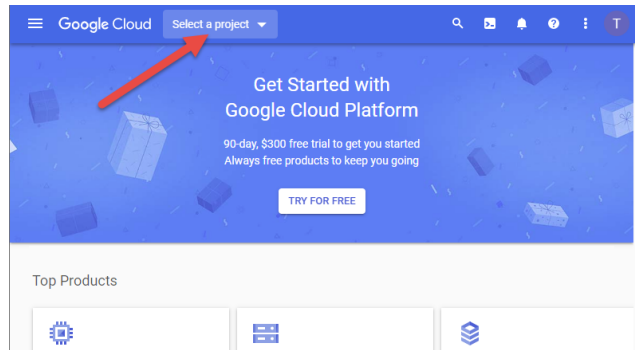


- In the right pane, specify the following OAuth-related parameters:
 - **Connect using**
From the drop-down list, select **OAuth 2.0**:
 - **Provider**
From the drop-down list, select either **Office 365** or **Gmail**.
 - **Email**
Enter the email address.
 - If **Gmail** is selected as the email provider, enter the **Client ID** and **Client secret** (obtained [in this section](#)).
 - If **Office 365** is selected as the email provider, enter the **Client ID** and **Tenant ID** (obtained [in this section](#)).
 - **Authorize**
Click this button to authorize your email account.
 - **Send Test Message**
Click this button to send a test message from the Sender Email address.

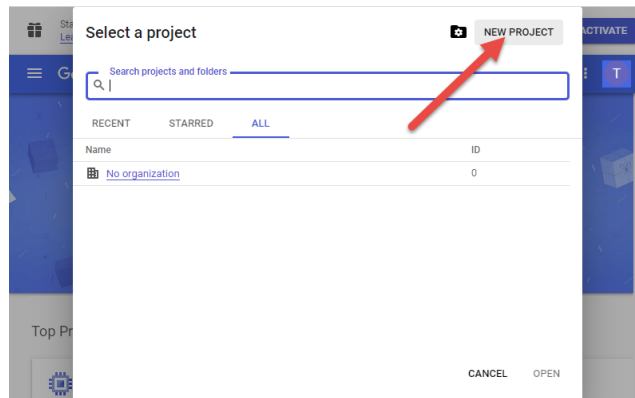
3 Google Service

This section contains step-by-step instructions on configuring your Google email account authorization to comply with OAUTH 2.0.

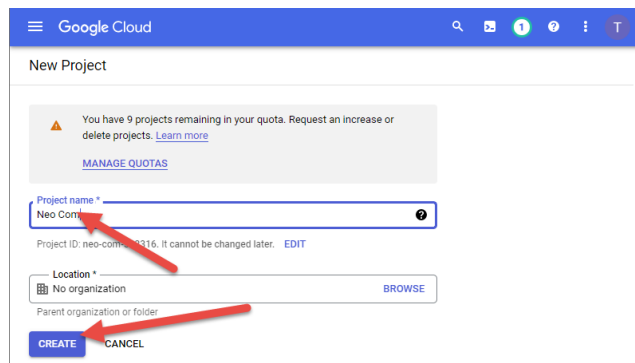
- In a browser, go to **console.cloud.google.com** and log in with your account.
- In the upper toolbar, click **Select a project**.



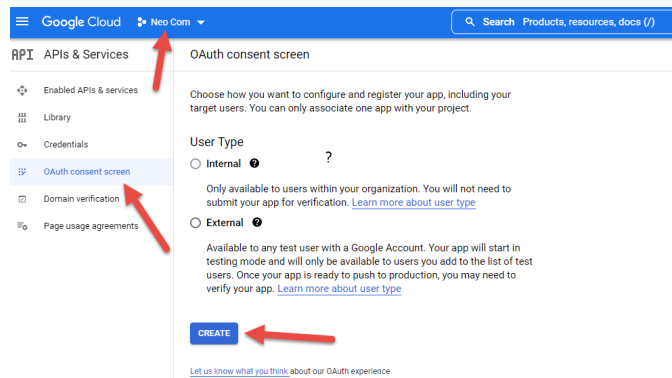
- In the **Select a project** pane that pops up, click **NEW PROJECT**.



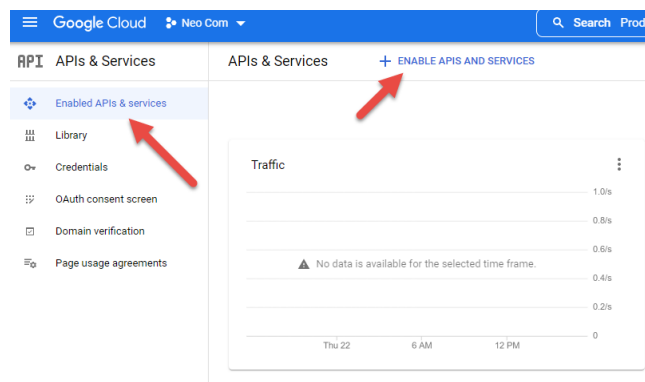
- In the **New Project** page, enter the **Project name** and click **CREATE**.



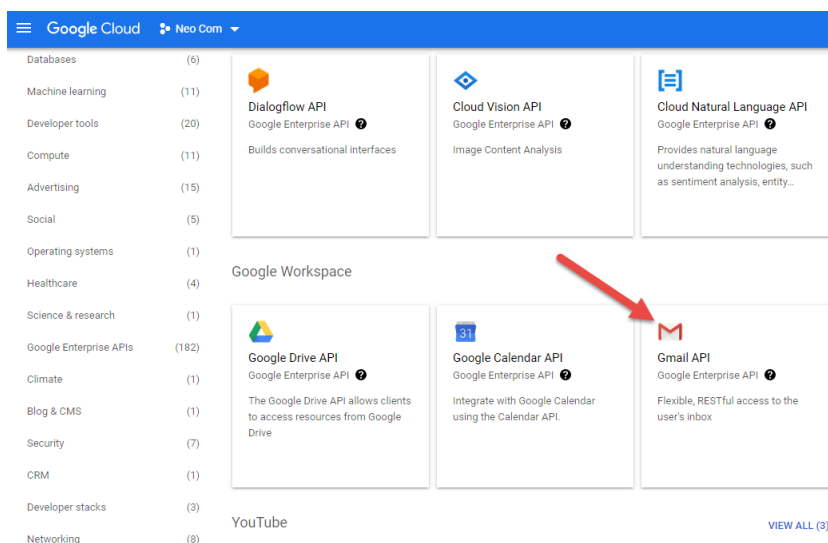
- In the left side menu, select **APIs & Services > OAuth consent screen**. In the right pane, choose the appropriate **User Type** and then click **CREATE**.



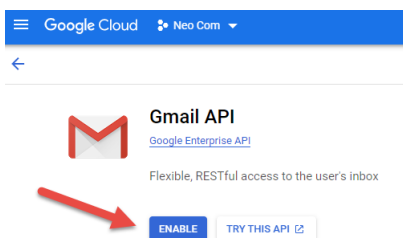
- The **Edit app registration** page opens in the right pane. Configure your app registration as desired and click **SAVE AND CONTINUE** at the bottom of the page.
- In the left side menu, select **APIs & Services > Enabled APIs & services**. In the right pane, click **ENABLE APIS AND SERVICES**.



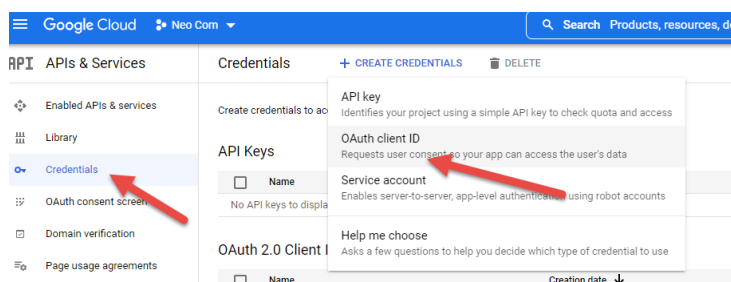
- Navigate to the **Google Workspace** section and click **Gmail API**.



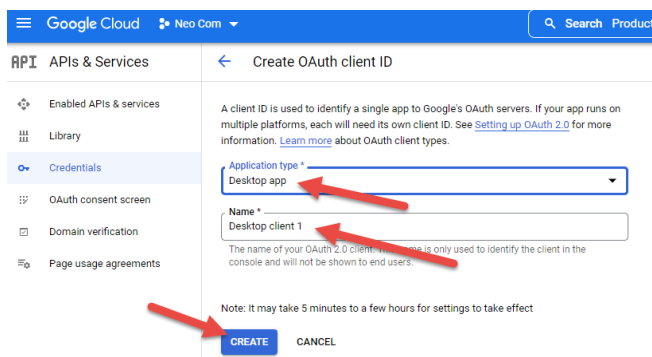
- Click **ENABLE**.



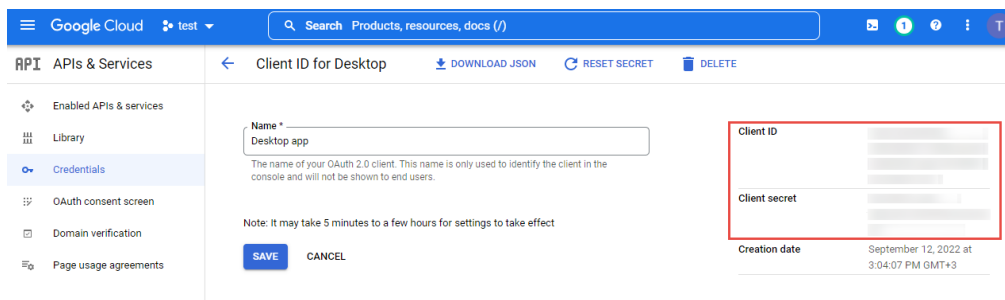
- In the left side menu, select **APIs & Services > Credentials**. In the right pane, click **CREATE CREDENTIALS > OAuth client ID**.



- From the **Application type** list, select **Desktop app**. Enter the **Name** of the OAuth 2.0 client. Click **CREATE**.



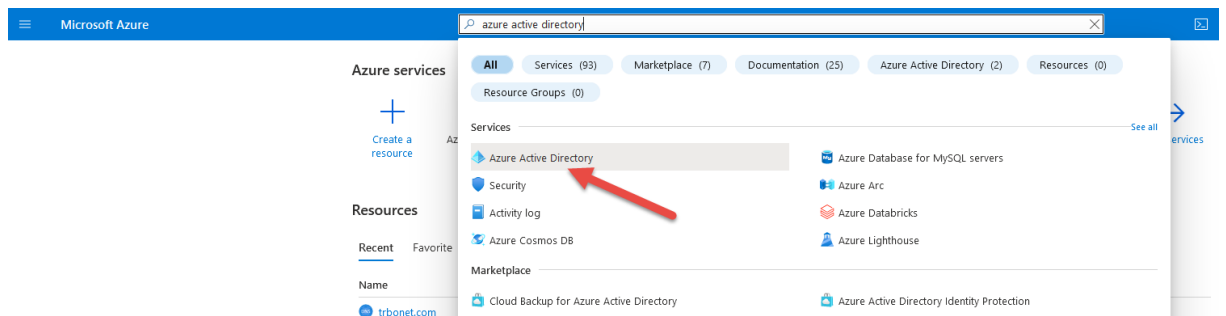
- As a result, you will see the values of the **Client ID** and **Client secret** parameters that are used when configuring email settings in TRBOnet Server (see section 2, [TRBOnet Server](#)).



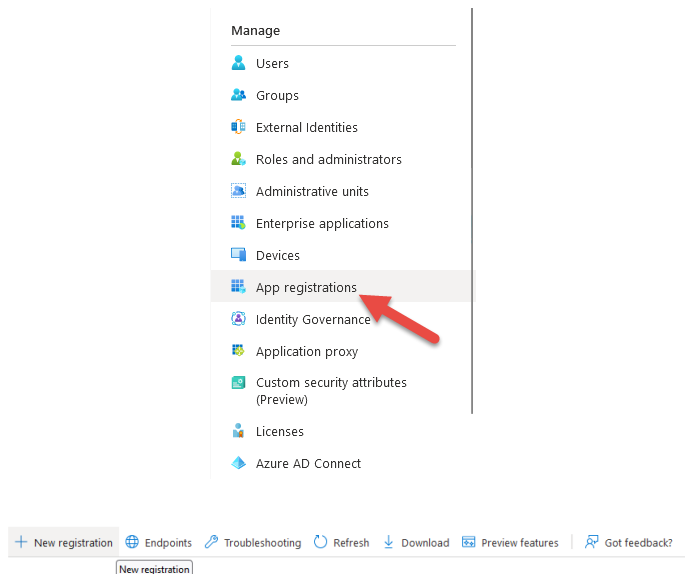
4 Office 365 Service

This section contains step-by-step instructions on configuring your Office 365 account authorization to comply with OAUTH 2.0.

- In a browser, go to **portal.azure.com** and sign in with your account.
- Search for and select **Azure Active Directory**.



- In the left pane, under **Manage**, select **App registrations > New registration**.



- Enter a display **Name** for the application. Under the **Supported account types** section, choose the desired option. Click **Register**.

Register an application ...

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

Supported account types
Who can use this application or access this API?
 Accounts in this organizational directory only (Иеоком софрtea, OOO 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)
 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.
Public client/native (mobile ... | http://localhost ✓

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

✔ Create application
Successfully created application TRBOnet.

- In the left pane, under **Manage** select **Authentication**. In the right pane, in the **Mobile and desktop applications** section, under **Redirect URIs**, select `https://login.microsoftonline.com/common/oauth2/nativeclient`.

TRBOnet | Authentication ...

Search | Got feedback?

Manage

- Overview
- Quickstart
- Integration assistant
- Authentication**
- Certificates & secrets
- Token configuration
- API permissions
- Expose an API
- App roles
- Owners
- Roles and administrators
- Manifest

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

Mobile and desktop applications Quickstart | Docs? |

Redirect URIs
The URIs we will accept as destinations when returning authentication responses (tokens) after successfully authenticating 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?](#)

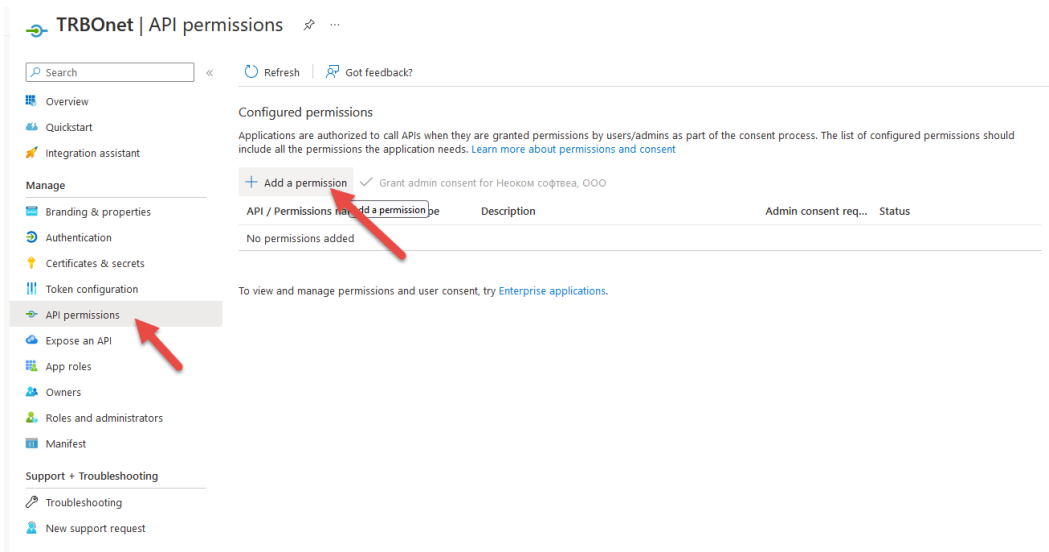
- https://login.microsoftonline.com/common/oauth2/nativeclient
- https://login.live.com/oauth2_desktop.srf | LiveSDK?
- msal2a039b87-4fef-4030-9634-79e544cce602/auth (MSAL only)
- http://localhost

[Add URI](#)

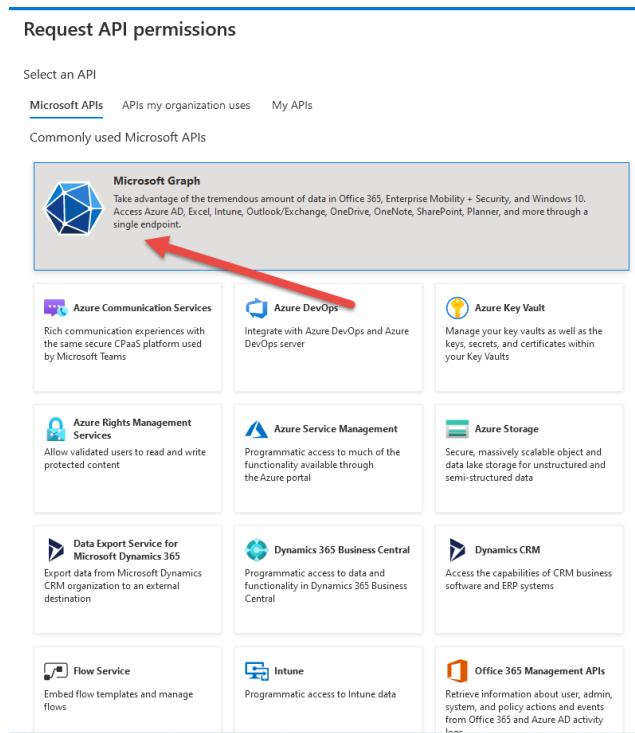
Supported account types
Who can use this application or access this API?
 Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
 All users with a work or school, or personal Microsoft account can use your application or API. This includes Office 365 subscribers.

Save **Discard**

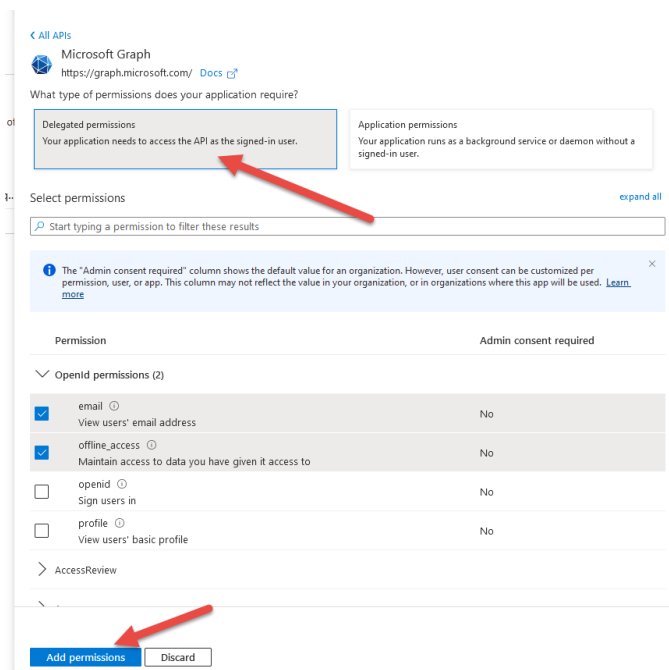
- In the left pane, under **Manage** select **API permissions**. In the right pane, click **Add a permission**.



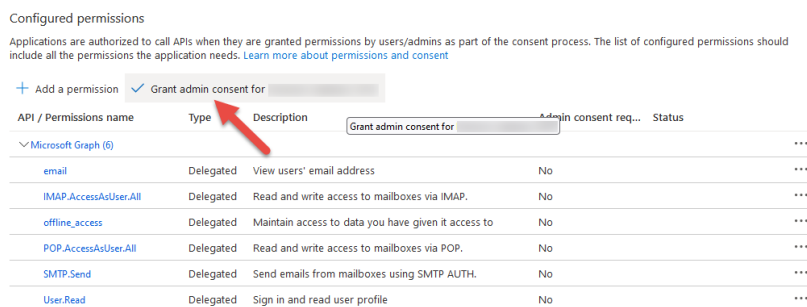
- In the right pane, under **Request API permissions > Microsoft APIs** choose **Microsoft Graph**.



- Choose **Delegated permissions**.
- Select the following permissions:
 - **email**
 - **offline_access**
 - **IMAP.AccessAsUser.All**
 - **POP.AccessAsUser.All**
 - **SMTP.Send**
 - **User.Read**
- Click **Add permissions**.



- In the **Configured permissions** page, click **Grant admin consent for ...**



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

- See that the required permissions are granted (**Status** column).

Refresh | Got feedback?

Successfully granted admin consent for the requested permissions.

Configured permissions

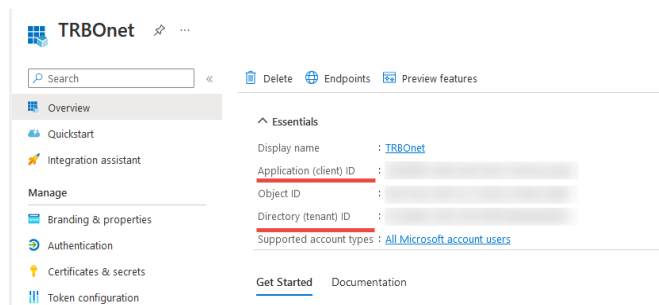
Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

+ Add a permission ✓ Grant admin consent for [redacted]

API / Permissions name	Type	Description	Admin consent req...	Status
Microsoft Graph (6)				
email	Delegated	View users' email address	No	Granted for [redacted]
IMAP.AccessAsUser.All	Delegated	Read and write access to mailboxes via IMAP.	No	Granted for [redacted]
offline_access	Delegated	Maintain access to data you have given it access to	No	Granted for [redacted]
POP.AccessAsUser.All	Delegated	Read and write access to mailboxes via POP.	No	Granted for [redacted]
SMTP.Send	Delegated	Send emails from mailboxes using SMTP AUTH.	No	Granted for [redacted]
User.Read	Delegated	Sign in and read user profile	No	Granted for [redacted]

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

- In the left pane, select **Overview**. In the right pane, under **Essentials**, see the values of the **Application (client) ID** and **Directory (tenant) ID** parameters that are used when configuring email settings in TRBOnet Server (see section [2. TRBOnet Server](#)).



TRBOnet

Search

Overview

Quickstart

Integration assistant

Manage

Branding & properties

Authentication

Certificates & secrets

Token configuration

Essentials

Display name : TRBOnet

Application (client) ID : [redacted]

Object ID : [redacted]

Directory (tenant) ID : [redacted]

Supported account types : All Microsoft account users

Get Started Documentation