

Nagios

Setting up Microsoft SMTP with OAuth 2.0

Requirements

- PHP Version 7.4+ - You can follow this link to upgrade your PHP version:
<https://support.nagios.com/kb/article/nagios-xi-upgrading-to-php-7-860.html>
- Nagios XI Version 5.10 (this will not work for offline builds)
- A Microsoft Azure account with administrative privileges

If you're familiar with setting up an application in the Azure portal you can use this shortcut, otherwise continue past this section:

REQUIRED API PERMISSIONS:

APPLICATION PERMISSIONS – MAIL.SEND (REQUIRES ADMIN CONSENT)

Mail.Send	Application	Send mail as any user	Yes	✔ Granted for MSFT	...
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On your Nagios XI server, navigate to **Admin -> System Config -> Email Settings**

Select Microsoft with OAuth2, enter your credentials and hit test credentials.

The screenshot shows a dark-themed form with the following fields and elements:

- Client ID:** 0b2fbbc2-4d23-4eb2-9897-8d1a9d0555de
- Tenant ID:** 4d13c952-c5fe-48a3-bda2-8881a2c5c6a8
- Client Secret:** A field filled with dots, with a small eye icon to its right.
- Test Credentials:** A button with a green checkmark icon to its right.

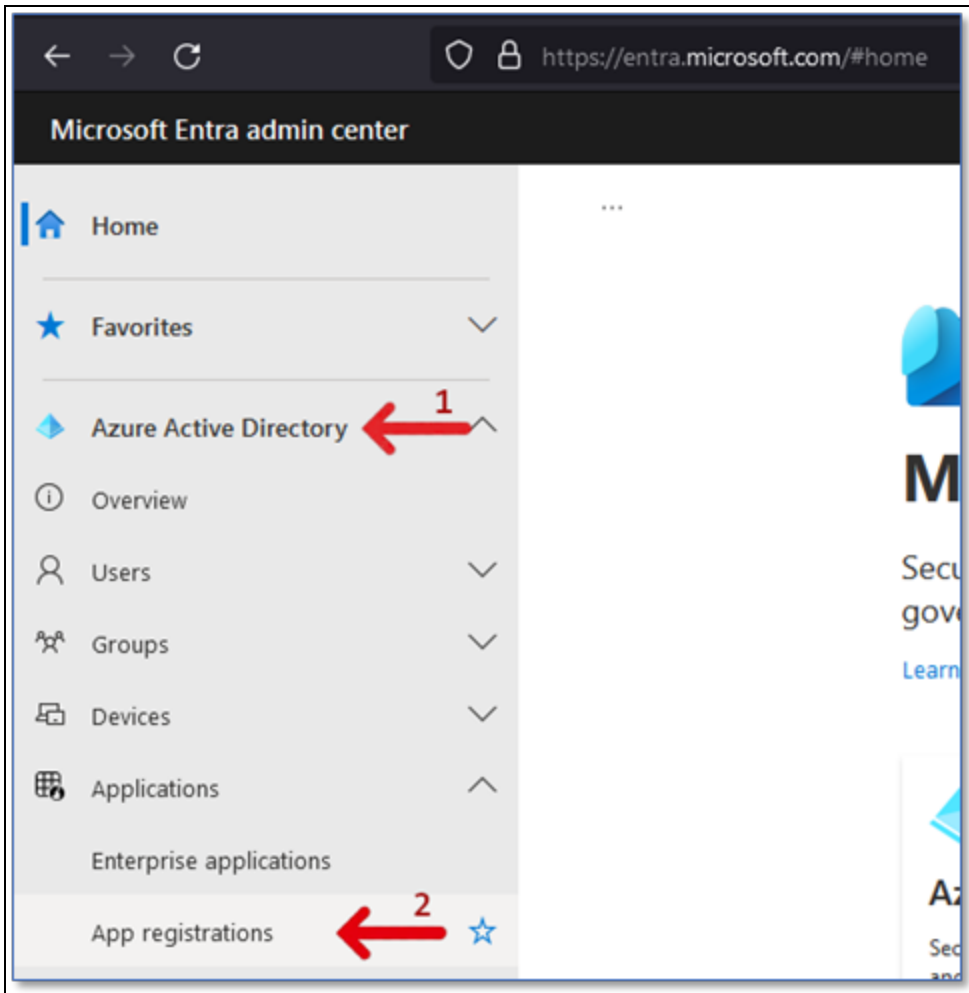
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Register an Application with Microsoft Azure (for your XI server)

Applications can be registered through several Microsoft portals.

Portal 1: [Microsoft Entra admin center](#) – Azure Active Directory → App Registration

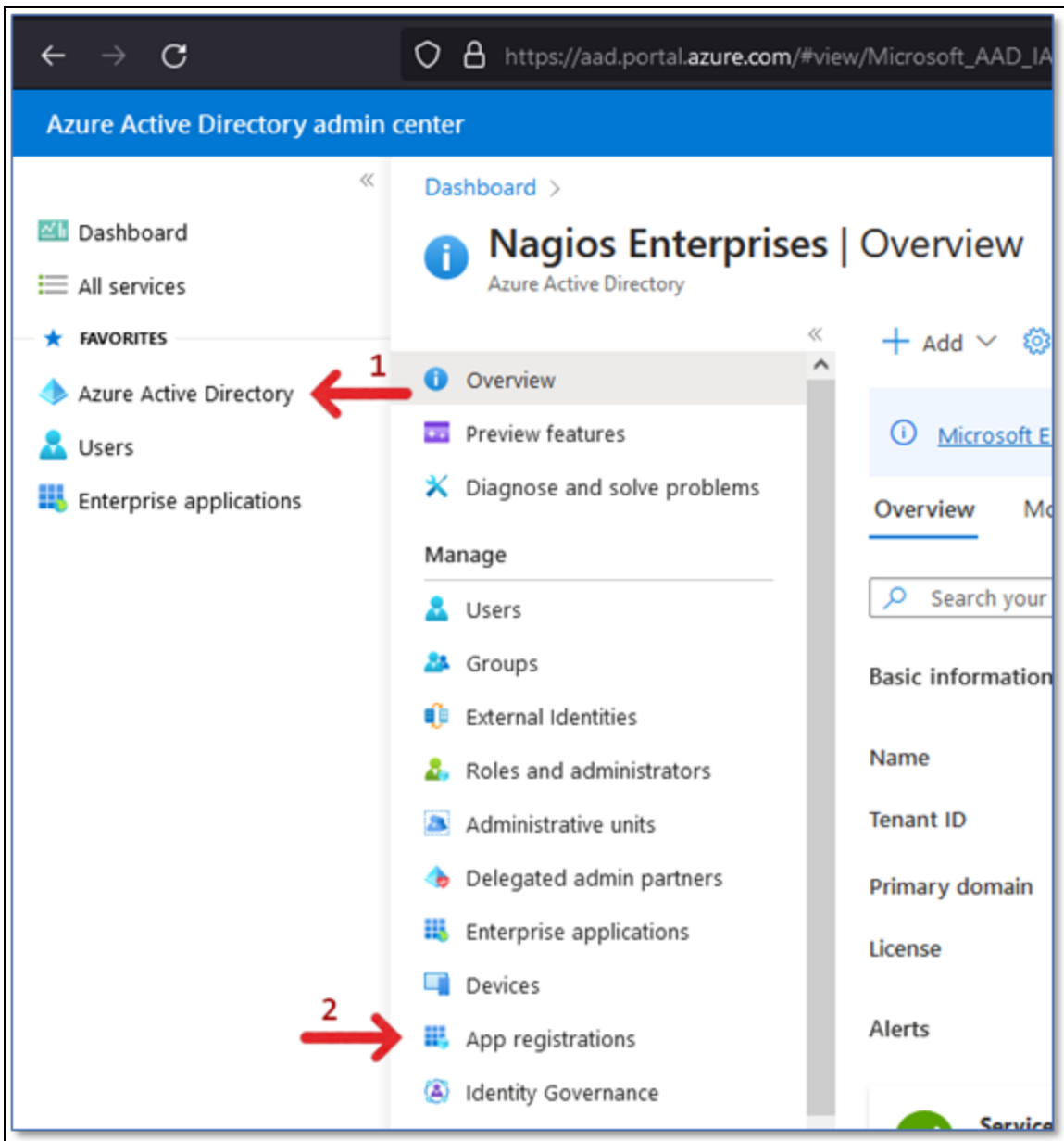
Figure 1: Microsoft Entra admin center



Portal 2: [Azure Active Directory admin center](#) – Azure Active Directory → App registrations

Figure 2: Azure Active Directory admin center

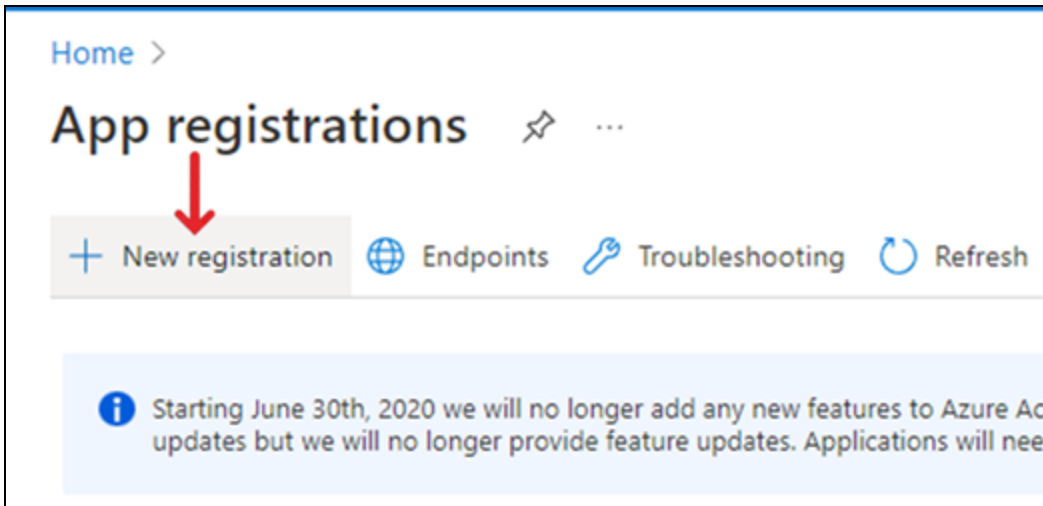
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Portal 3 [Microsoft Azure portal](https://aad.portal.azure.com/#view/Microsoft_AAD_IA) – Search bar → app registration → App registrations

Figure 3: Microsoft Azure portal

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Give your app a name and select the appropriate account types for your situation. If you are unsure of which one to choose, just leave it on the default (MSFT only – Single tenant).

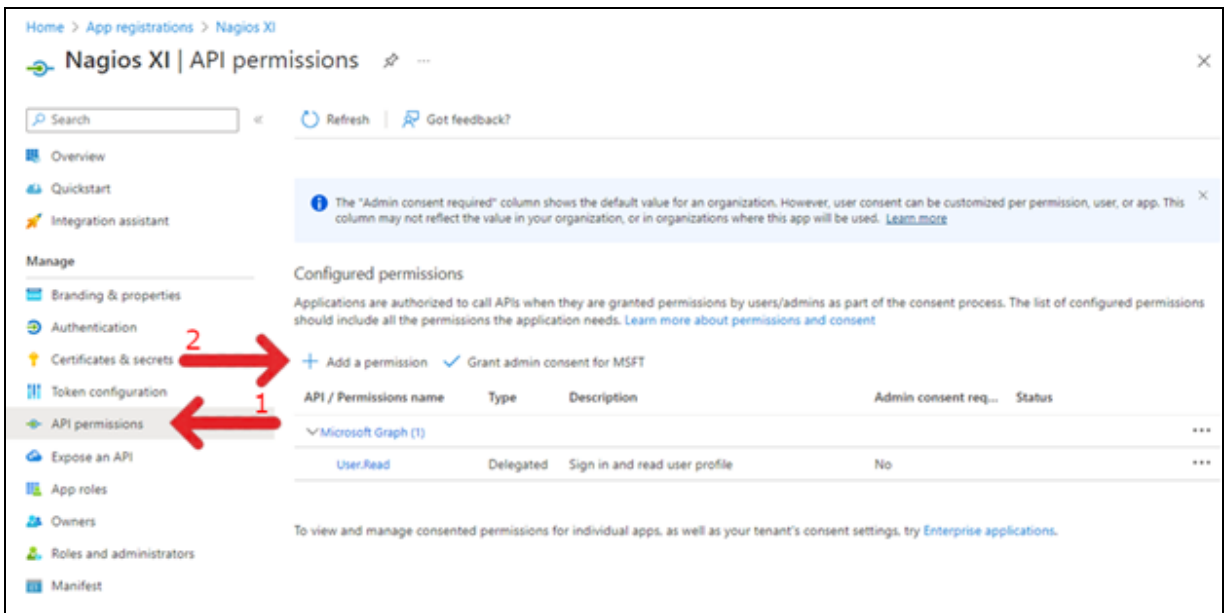


Note: You will only be able to access the API with accounts your app was configured to. If you want to send mail from an account outside of your tenant, you will need to adjust the supported account types accordingly.

Give your Azure App registration (your XI Server) permission to send mail

1. Add a permission to your app's API permissions - Azure – App Registrations – [your application] – API permissions (1) -> + Add a permission (2).

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Home > App registrations > Nagios XI

Nagios XI | API permissions

Search Refresh Got feedback?

Overview Quickstart Integration assistant

Manage

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

Configured permissions

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

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](#)

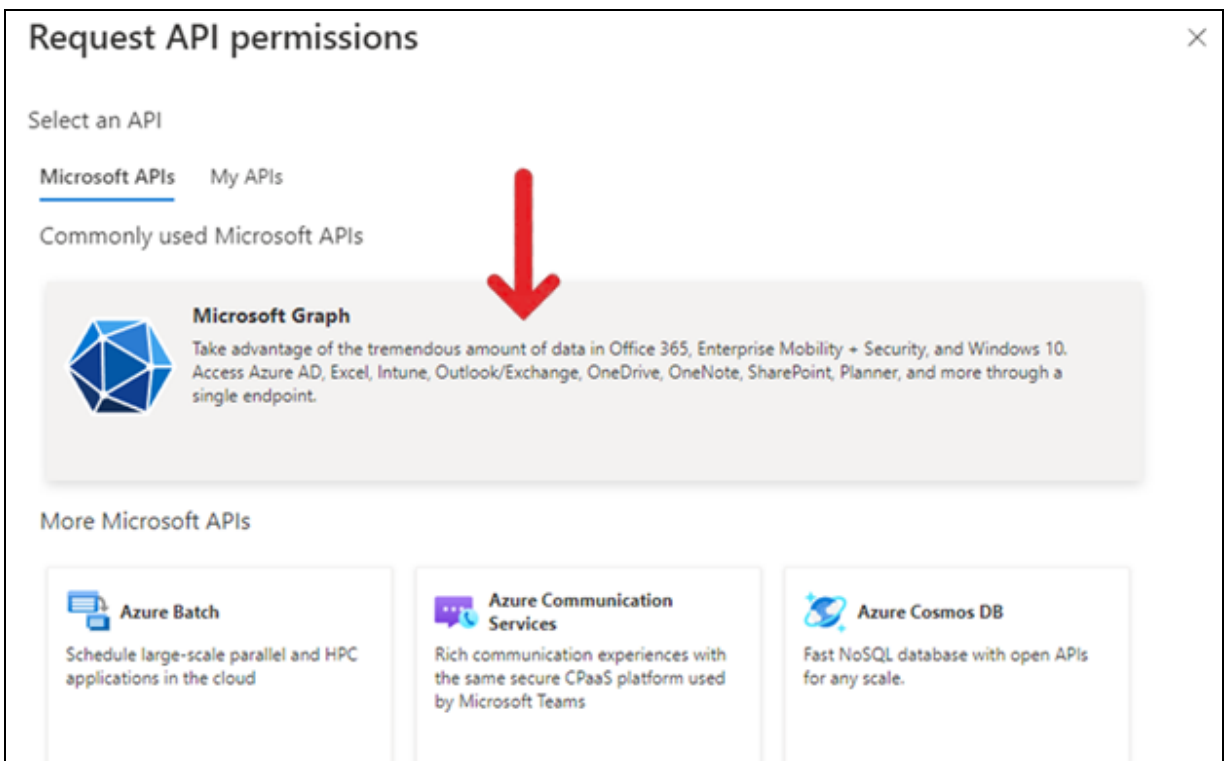
+ Add a permission ✓ Grant admin consent for MSFT

API / Permissions name	Type	Description	Admin consent req...	Status
Microsoft Graph (1)				
User.Read	Delegated	Sign in and read user profile	No	...

To view and manage consented permissions for individual apps, as well as your tenant's consent settings, try [Enterprise applications](#).

Annotations: Red arrow '1' points to 'API permissions' in the left sidebar. Red arrow '2' points to '+ Add a permission' button.

2. Select Microsoft Graph.



Request API permissions

Select an API

Microsoft APIs My APIs

Commonly used Microsoft APIs

Microsoft Graph
Take advantage of the tremendous amount of data in Office 365, Enterprise Mobility + Security, and Windows 10. Access Azure AD, Excel, Intune, Outlook/Exchange, OneDrive, OneNote, SharePoint, Planner, and more through a single endpoint.

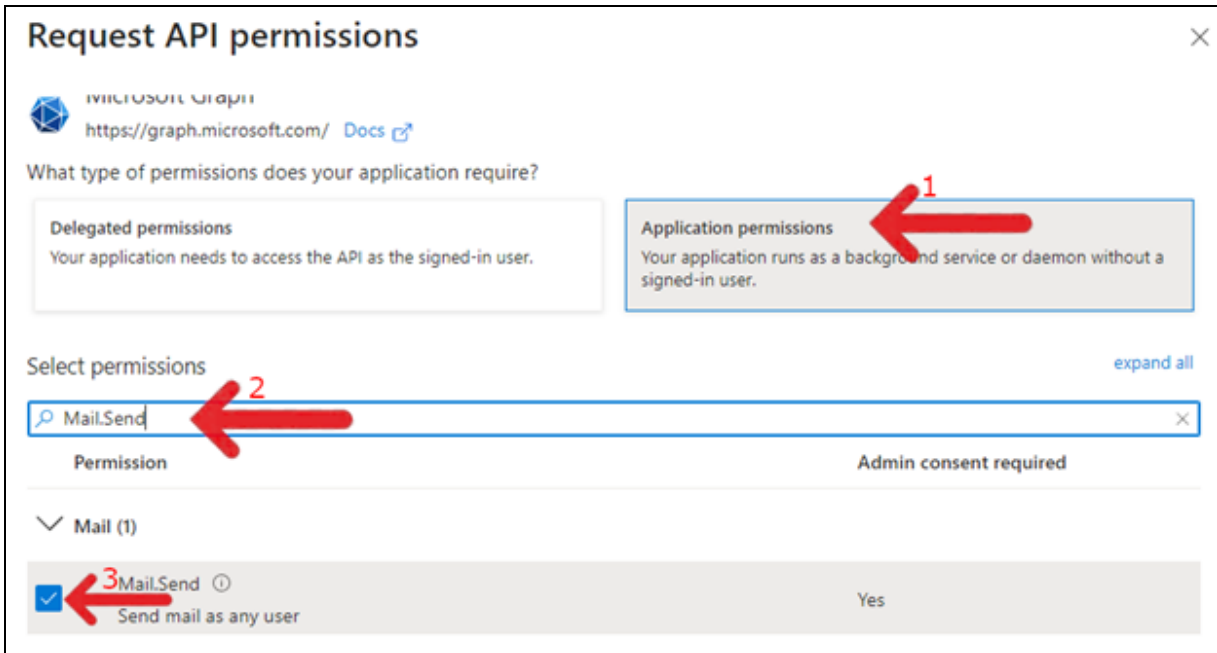
More Microsoft APIs

- Azure Batch**
Schedule large-scale parallel and HPC applications in the cloud
- Azure Communication Services**
Rich communication experiences with the same secure CPaaS platform used by Microsoft Teams
- Azure Cosmos DB**
Fast NoSQL database with open APIs for any scale.

Annotation: Red arrow points to the Microsoft Graph card.

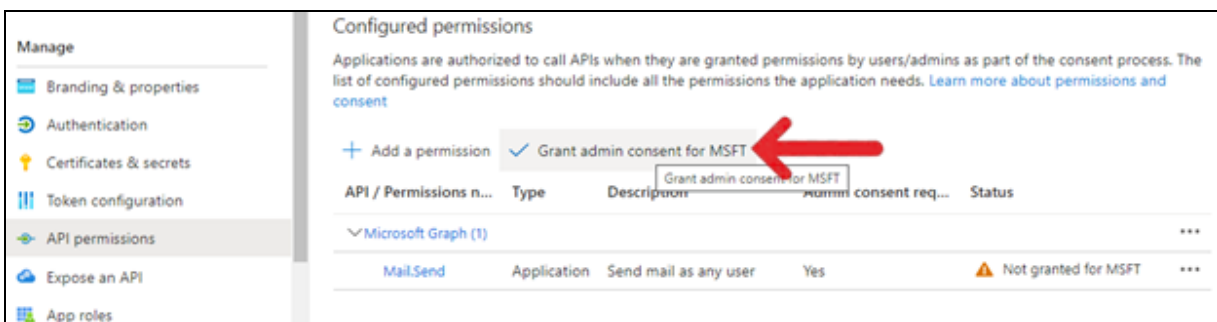
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3. Under **Application Permissions** select **Mail.Send**.

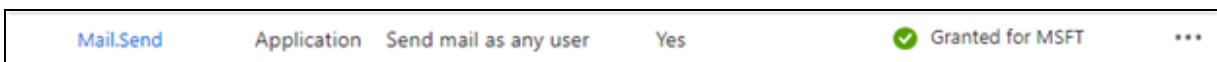


Note: You may remove your app's default User.Read permission.

4. Click Grant admin consent for ____.



Your permission should now look like this:



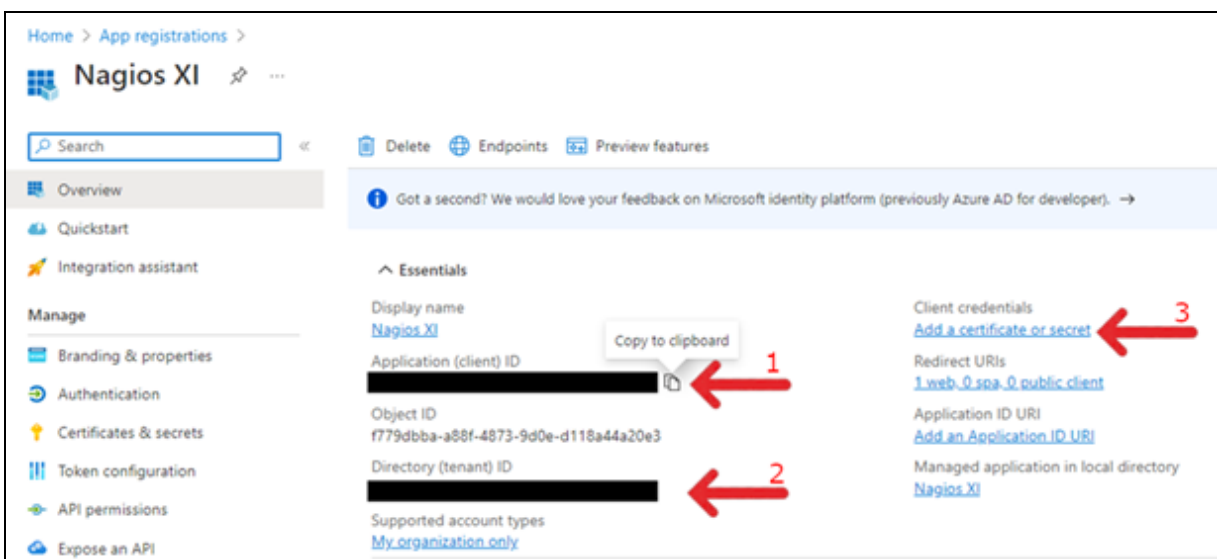
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Copy your Azure OAuth2 credentials to your Nagios XI OAuth configuration page

Azure – App Registrations – [your application] – Overview

Copy your credentials from your Azure app registration to your Nagios XI OAuth configuration page

1. Copy your **Client ID** (1) to your Nagios XI OAuth configuration page.
2. Copy your **Tenant ID** (2) to your Nagios XI OAuth configuration page.

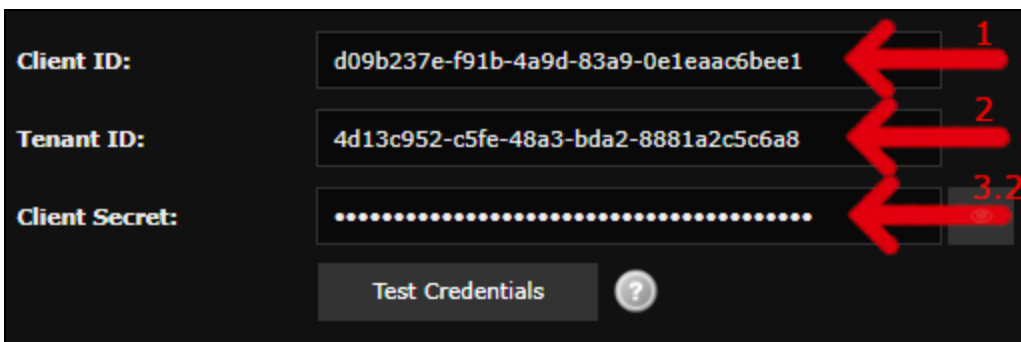
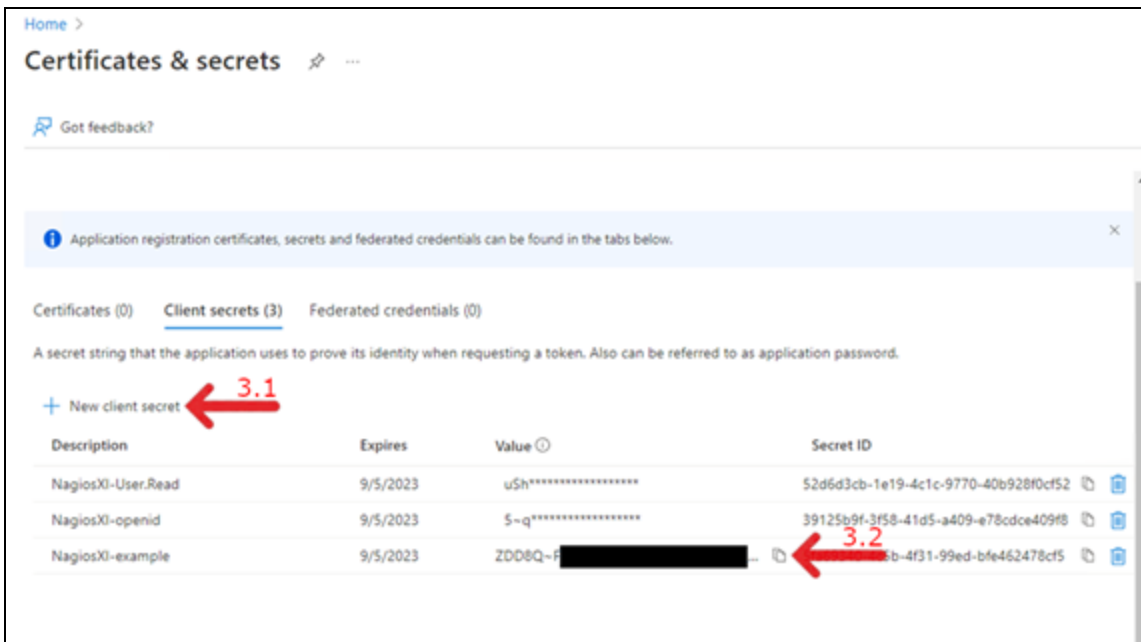


3. Add a certificate or secret.

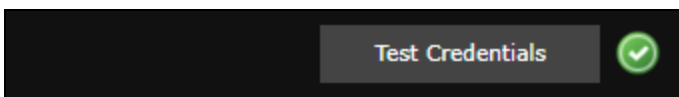
3.1 Select + New client secret and create the secret. We suggest using a name related to its usage such as Nagios XI instance 12 – Mail.

3.2 Copy your **Client Secret** (3.2) to your XI OAuth credentials page as seen below.

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You can now verify your credentials with Microsoft by using the Test Credentials button.



Troubleshooting

Common errors and solutions are presented below.

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Issue: You get the following error after setup: "Mail failed to send... Resource could not be discovered."

Solution:

In Nagios XI, navigate to **Admin > Email Settings**.

Ensure that you have updated the **Send From** field on the Outbound tab of the Email Settings page.

Also ensure that all other settings on this page are appropriate for your Microsoft with OAuth 2 setup.