

Setting Up Gmail SMTP With OAuth 2.0 In Nagios XI 2024

Purpose

This document is intended for use by Nagios administrators who have experience with SMTP services and want to set up Gmail SMTP in Nagios XI.

Requirements

- PHP Version 7.4+ - You can follow this 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 Google Cloud Account.
- You either must have a FQDN for your XI server or be logged into your Nagios XI Server directly or through SSH as Google does not allow private IP redirect URIs.
 - **Note:** It is highly recommended that OAuth integration users use an FQDN.
 - If you aren't using an FQDN for your Nagios XI server, you will need to establish an SSH connection with port forwarding. This will allow your local machine to interact with the server as if it was locally hosted.
 - The following is a template for the command you need to run:

```
ssh -N -L port:localhost:port username@ipaddress
```

- Replace the placeholders with the following information:
 - **port:** This is the port to be forwarded. Use port 80 for HTTP and 443 for HTTPS (default values).
 - **username:** This is your username on the server hosting Nagios XI. Use `root` unless you've added a different user.
 - **ipaddress:** This is the IP address of the Nagios XI server.
- For example, if you're using HTTP and your username is `root` and your server's IP address is `192.168.1.100`, the command would be:

```
ssh -N -L 80:localhost:80 root@192.168.1.100
```

- Run this command in your local terminal to establish the SSH connection with port forwarding. You can cancel this command (`Ctrl+C`) from your local terminal once you have finished OAuth setup.

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Instructions

Before you can configure Gmail SMTP with OAuth 2.0 in Nagios XI, there are steps that must be taken within Google Cloud.

1. Create a Google Cloud Project
 - a. In the Google Cloud console, projects can be registered through several methods. Refer to Google's documentation on how to [Create a Google Cloud project](#).
2. Configure OAuth Consent
 - a. You will need to configure OAuth from the Google Cloud console. Refer to Google's documentation on how to [Configure OAuth Consent](#).

Note: If you are using an External User Type, we suggest leaving your API in testing mode as this limits the accounts that can access it to those who you've approved.

OAuth consent screen

Choose how you want to configure and register your app, including your target users. You can only associate one app with your project.

User Type

Internal 

Only available to users within your organization. You will not need to submit your app for verification. [Learn more about user type](#)

External 

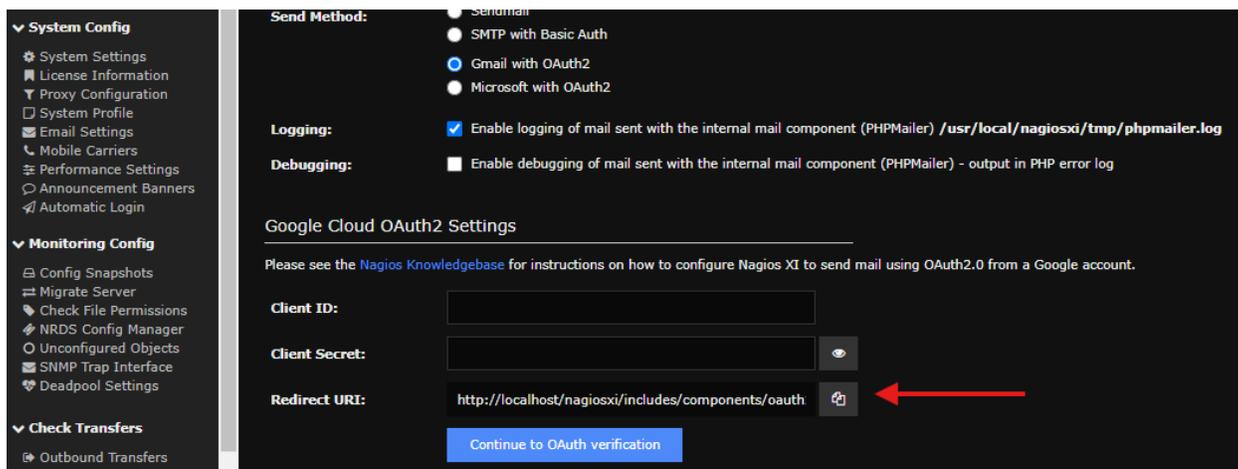
Available to any test user with a Google Account. Your app will start in testing mode and will only be available to users you add to the list of test users. Once your app is ready to push to production, you may need to verify your app. [Learn more about user type](#)

CREATE

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3. Create OAuth Credentials

- a. To create OAuth credentials in Google, refer to their guide on [Creating Access Credentials](#).
- b. Copy your **Redirect URI** from Nagios XI by navigating to **Admin > System Config > Email Settings** page.

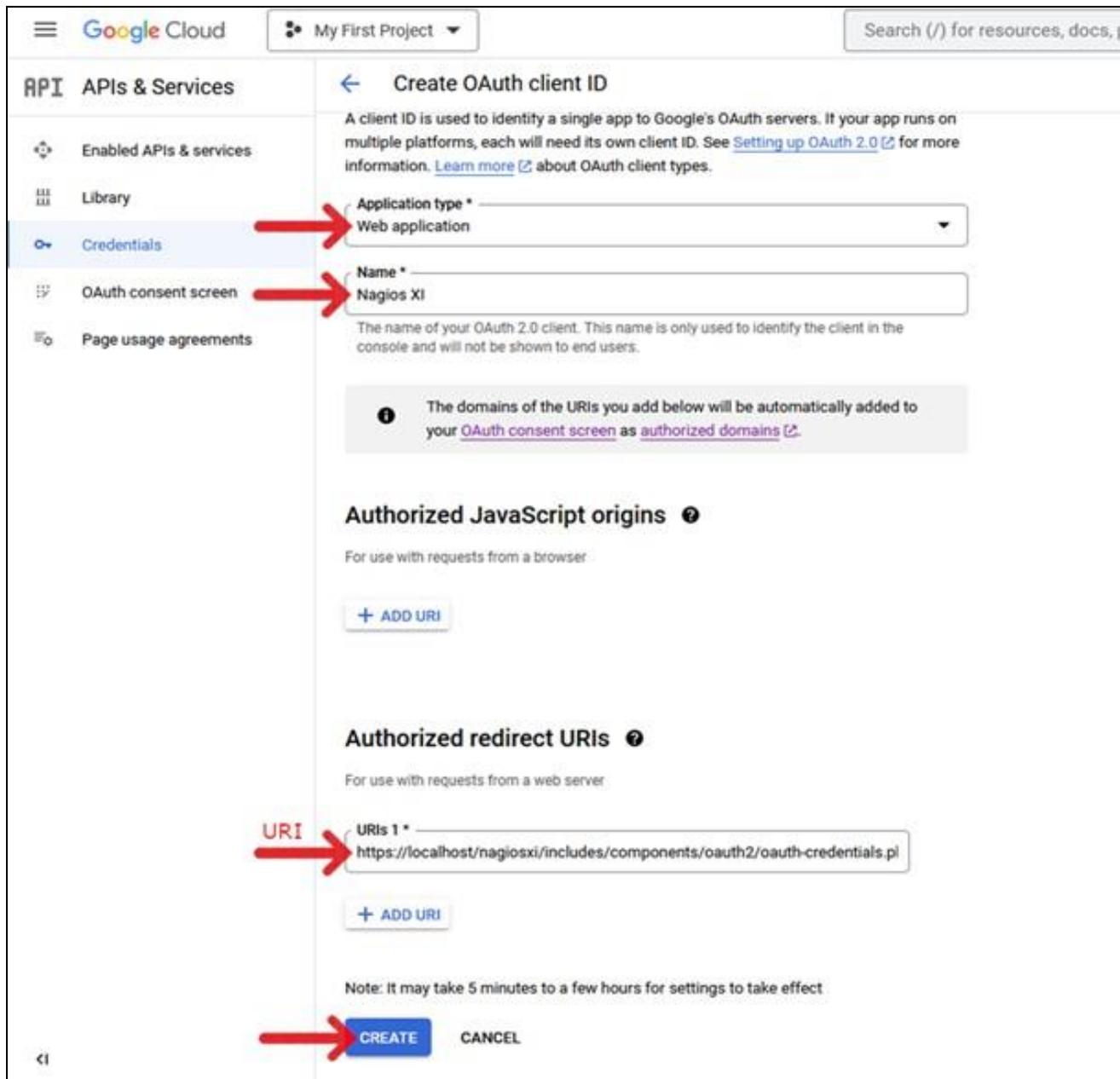


The screenshot shows the Nagios XI configuration interface. On the left is a navigation menu with sections for System Config, Monitoring Config, and Check Transfers. The main content area is titled 'Email Settings' and includes the following sections:

- Send Method:** Radio buttons for Sendmail, SMTP with Basic Auth (selected), Gmail with OAuth2, and Microsoft with OAuth2.
- Logging:** A checked checkbox for 'Enable logging of mail sent with the internal mail component (PHPMailer) /usr/local/nagiosxi/tmp/phpmailer.log'.
- Debugging:** An unchecked checkbox for 'Enable debugging of mail sent with the internal mail component (PHPMailer) - output in PHP error log'.
- Google Cloud OAuth2 Settings:** A section with a heading and a link to the Nagios Knowledgebase. It contains three input fields: 'Client ID', 'Client Secret', and 'Redirect URI'. The 'Redirect URI' field contains the text 'http://localhost/nagiosxi/includes/components/oauth' and has a red arrow pointing to it from the right. Below these fields is a blue button labeled 'Continue to OAuth verification'.

- c. Back in Google Cloud, fill out the **Create OAuth client ID** page.

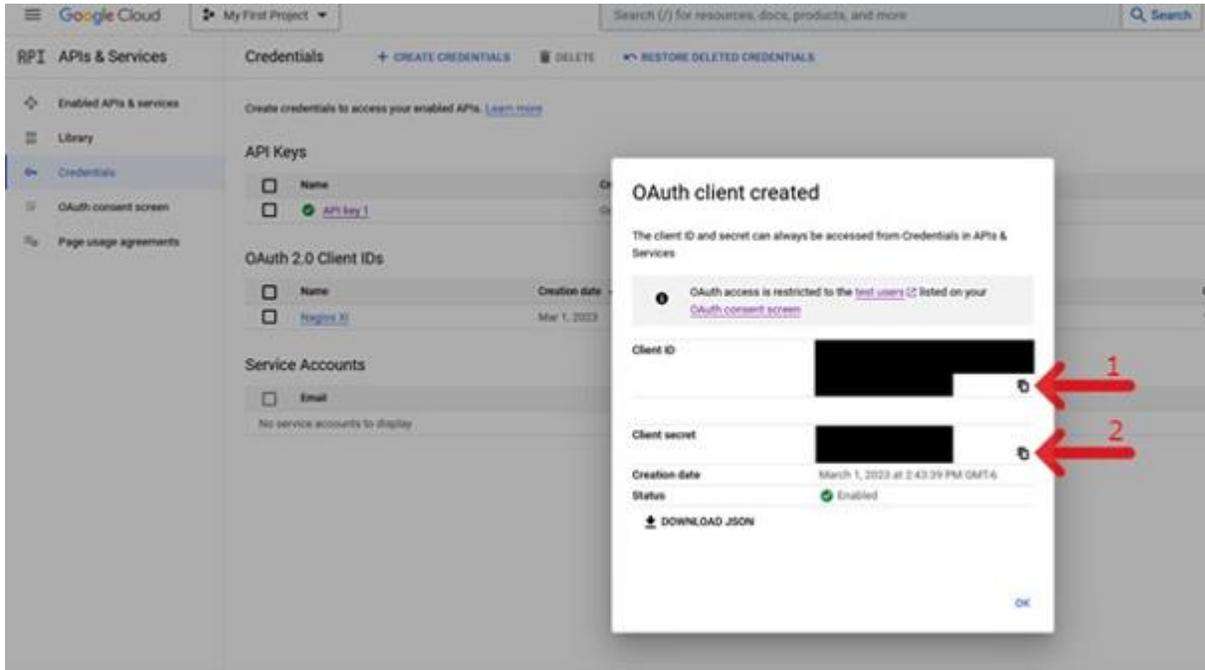
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Note: Google doesn't allow private IP addresses, so even if you are using HTTPS (SSL/TLS), you will still have a localhost redirect URI unless you have a FQDN.

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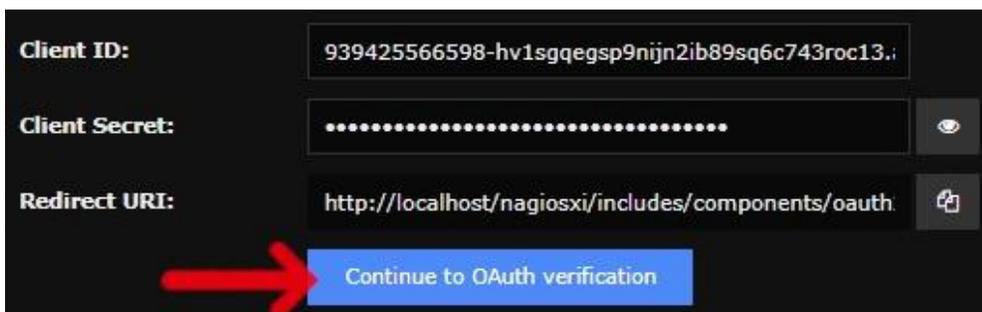
4. Copy the credentials (**Client ID** and **Client Secret**) from your Google Project.



5. Paste the credentials into your Nagios XI **Google Cloud OAuth2 Settings**. You can get to this page by navigating to **Admin > System Config > Email Settings**.

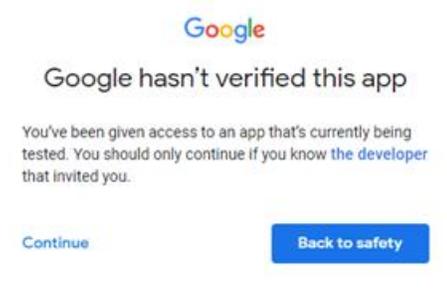


6. Click the **Continue to OAuth verification** button.



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7. You will be directed to the Google OAuth Sign-in page. Sign in with the account that you wish to send mail to (the Gmail account you used to create your credentials with).
 - a. Google will say that they haven't verified your app. You can verify that this is for your app by clicking **the developer** link and verifying that it is the email you entered when you constructed the OAuth consent page.



- b. Check the box allowing Nagios XI to **Read, compose, send, and permanently delete all your email from Gmail.**

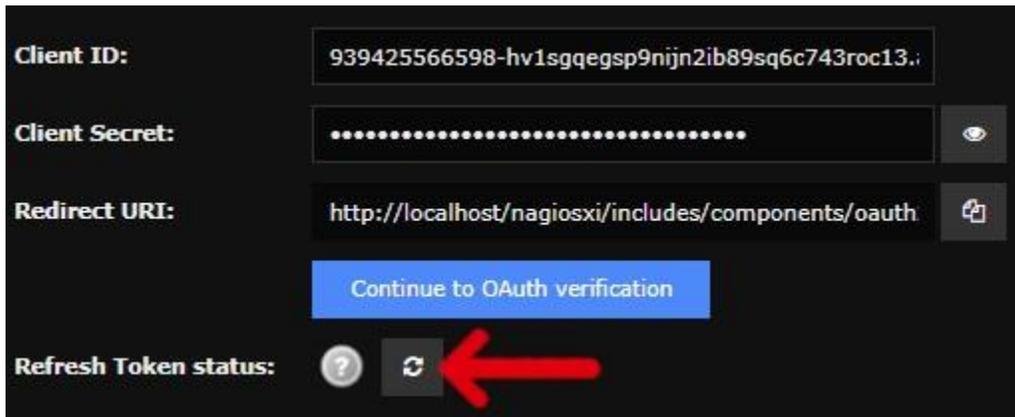
	Associate you with your personal info on Google	<input checked="" type="checkbox"/>
	See your personal info, including any personal info you've made publicly available	<input checked="" type="checkbox"/>
	See your primary Google Account email address	<input checked="" type="checkbox"/>
	Read, compose, send, and permanently delete all your email from Gmail. Learn more	<input checked="" type="checkbox"/>

- c. Click **Submit**.

Once done, it will redirect you to the redirect URI on your Nagios XI server, which will notify you that your OAuth2 has been configured and will close the page.

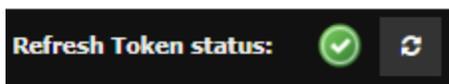
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Now back on your Nagios XI Admin **Email Settings** page, you can check your **Refresh Token status** to verify that it succeeded. If it succeeds, your credentials have been saved.



The screenshot shows the Nagios XI Admin Email Settings page. It includes the following fields and controls:

- Client ID:** 939425566598-hv1sgqegsp9nijn2ib89sq6c743roc13.:
- Client Secret:** A field with masked characters and a toggle icon.
- Redirect URI:** http://localhost/nagiosxi/includes/components/oauth with a copy icon.
- Continue to OAuth verification:** A blue button.
- Refresh Token status:** A status indicator with a question mark icon and a refresh icon. A red arrow points to the refresh icon.



The screenshot shows the Nagios XI Admin Email Settings page with the Refresh Token status updated. It includes the following fields and controls:

- Refresh Token status:** A status indicator with a green checkmark icon and a refresh icon.

Finishing Up

This completes the documentation on how to set up Gmail SMTP with OAuth 2.0 in Nagios XI. If you have additional questions or other support-related questions, please visit us at our Nagios Support Forum, Nagios Knowledge Base, or Nagios Library:

[Visit Nagios Support Forum](#)

[Visit Nagios Knowledge Base](#)

[Visit Nagios Library](#)