



**Advanced Live Training:**  
**Scripted Actions**  
**Lab Guide**

Revision 1

June 20, 2024


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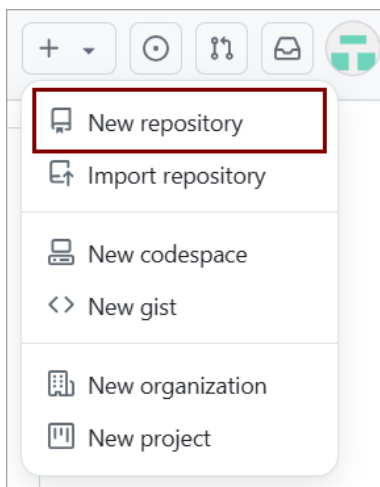
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# 1. Set up GitHub

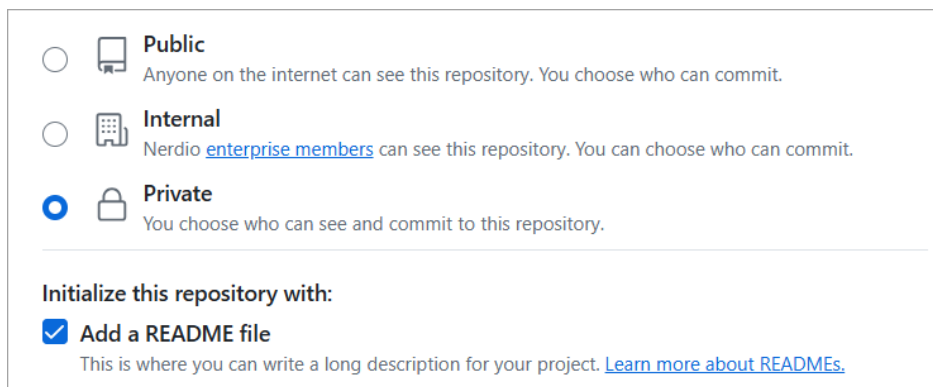
The first step is to create a repository in GitHub. The repository should be private and include a `Readme.md` file.

To create a new GitHub repository:

1. Sign in to your GitHub account.
2. In the upper-right corner of any page, select **Create new** , and then select **New repository**.



3. In the **Create a new repository** dialog box, provide the required details.
  - Set the repository privacy to **Private**.
  - Select the **Add a README file** option.



4. Select **Create repository**.

For more details, see [Creating a new repository](#).

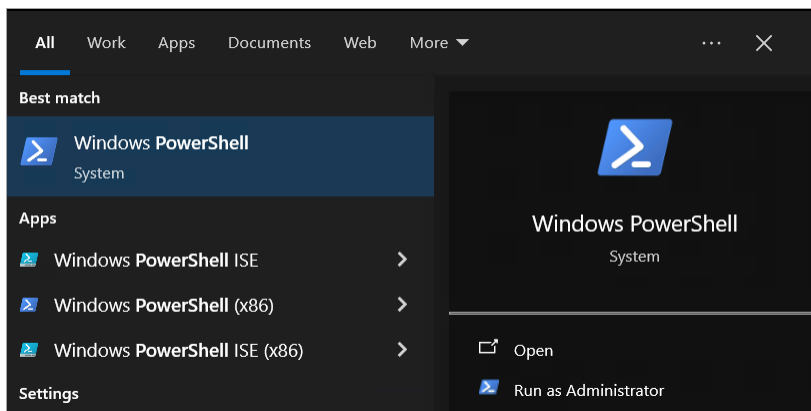
## 2. Set up Visual Studio Code

The next step is to set up integration for Visual Studio Code and GitHub.


**Important!** To complete this step, you need to have the **GitHub Pull Requests** extension installed. To install the extension, go to [Visual Studio Marketplace](#).

To set up the integration:

1. In Windows Search, enter **powershell**, and then select the app.

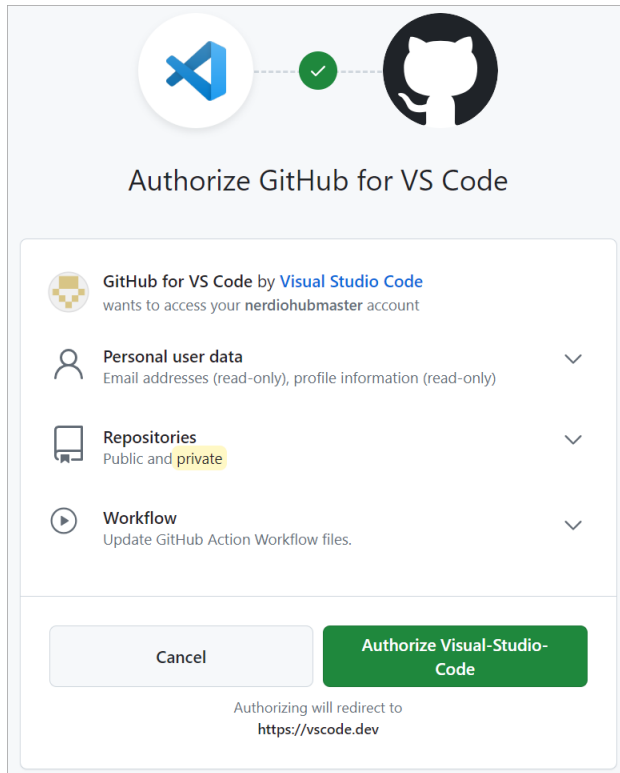


**Note:** Select **Install** if the app has not been installed yet.

2. Open Visual Studio Code, and then sign in to GitHub to allow VS Code to authenticate to your remote repository in GitHub:
  - a. In the VS Code sidebar, in the lower-left corner, select **Accounts** .
  - b. Provide your GitHub account credentials, and then select **Confirm**.

**Important!** The GitHub account username is not your email address.

- c. Select **Authorize Visual-Studio-Code**.



**Tip:** If the authentication fails, run the following commands in the terminal:

- o `git config --global user.name "Your Name"`
- o `git config --global user.email yourname@example.com`

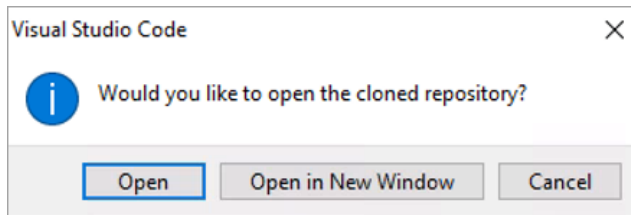
3. In your local environment, use Windows File Explorer to create a directory that you can use as the root for your local repository.

**Example:** Create a folder named **Repo** in the root of OneDrive, or the **Documents** folder.

4. Once the repository is created and Git-authorized, in Visual Studio Code, clone that repository:
- a. Press **Ctrl + Shift + P** to open the **Show-Command** prompt at the top of Visual Studio Code.
  - b. Enter **git**, and then select **Git:Clone**.
  - c. Select the **Clone from GitHub** prompt.
  - d. Select the repository that you previously created.

**Note:** The selected folder is where the repository should be cloned. Ensure it is the folder that you previously created via the File Explorer. Please see the above example for the original folder creation.

- e. Once you get a prompt to open the repository, select **Open**.



If the operation completes successfully, a new folder is displayed in the File Explorer. It should be of the same name as the repository you created in GitHub, and must contain a `readme.md` file.

5. With the current project opened in Visual Studio Code, right-click in the **Explorer** view, and then select **Create new folder**. Name the folder **windows**.
6. Repeat the same steps to create the folder named **runbooks**.

**Note:** In the **Sync** view, the new folders should be displayed as uncommitted items in the queue.

7. Commit the folders: In the message text box, enter **Initial commit**, and then expand the drop-down menu (white arrow) and select **Commit & Sync**.
8. Once the **Commit & Sync** operation is completed, go back to the browser, and refresh the GitHub page.

The new folders should now be displayed in GitHub, and you can verify that the **Commit & Sync** operation is performing as expected.

### 3. Set up Nerdio Manager

Finally, you need to set up integration in Nerdio Manager. For this, complete the following steps:

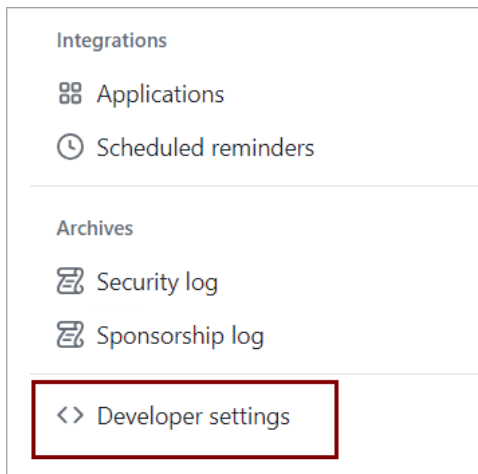
- [Secure the repository token](#)
- [Enable Azure Runbooks scripted actions](#)

#### 3.1 Secure the Repository Token

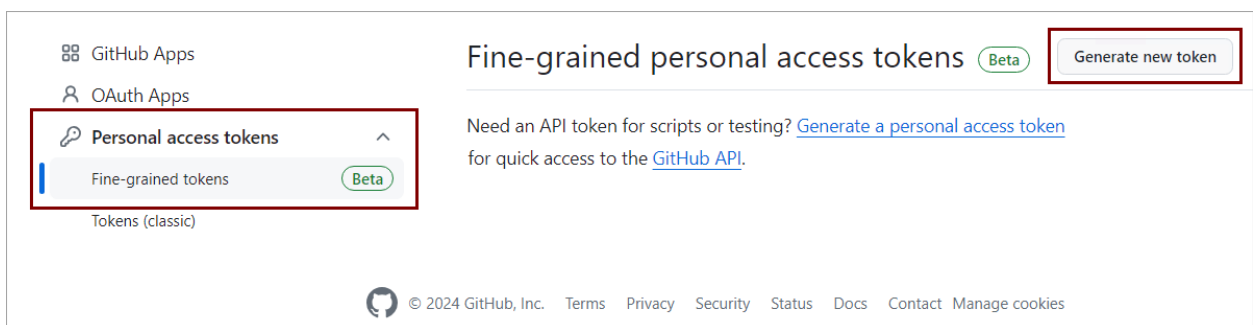
Personal access tokens are an alternative to using passwords for authentication to GitHub when using the GitHub API or the command line. They are intended to access GitHub resources on your behalf.

To secure a token:

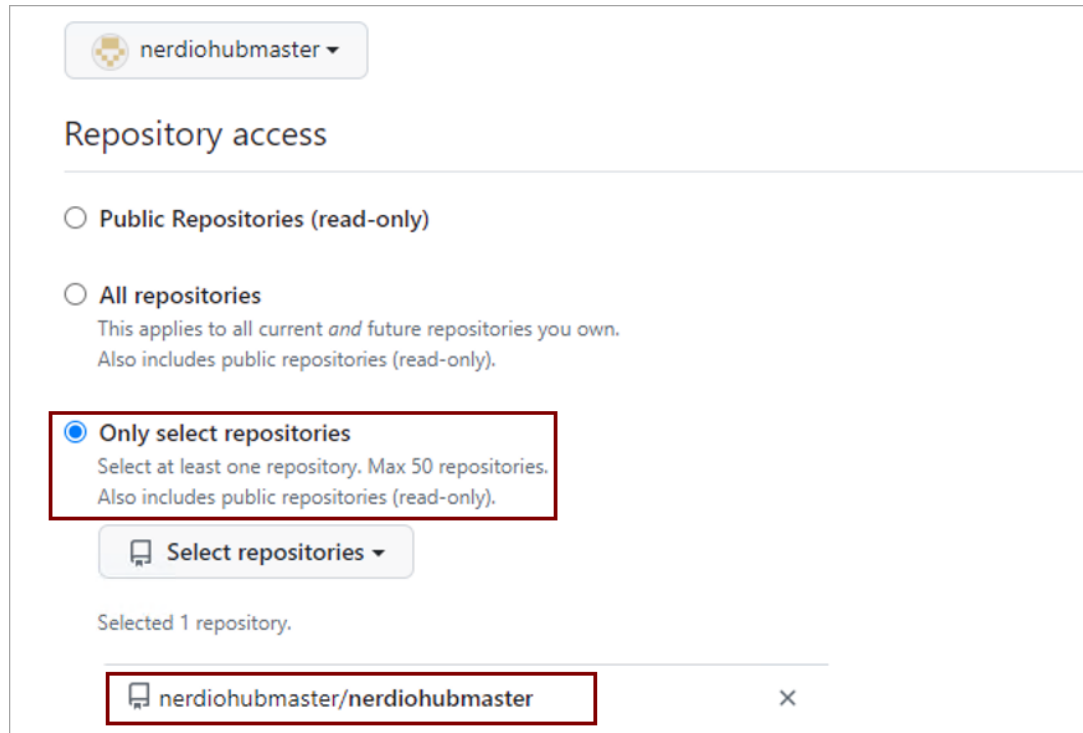
1. In GitHub, select your **profile icon** > **Settings**.
2. In the left sidebar, select **Developer Settings**.



3. Select **Personal access tokens** > **Fine-grained tokens** > **Generate new token**.



4. In the new dialog box, provide the required details.
- **Repository access:** Select **Only select repositories**.
    - **Select repositories:** Select the repository that you want the token to access.



nerdiorhubmaster ▼

### Repository access

☐ Public Repositories (read-only)

☐ All repositories  
This applies to all current *and* future repositories you own.  
Also includes public repositories (read-only).

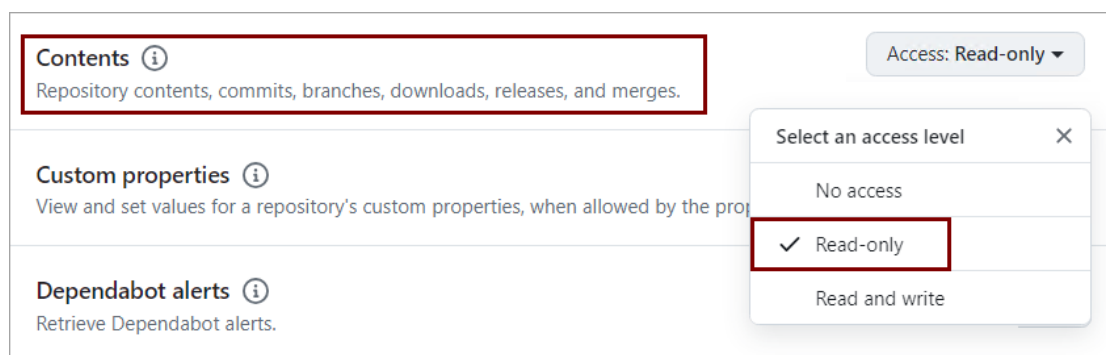
☒ **Only select repositories**  
Select at least one repository. Max 50 repositories.  
Also includes public repositories (read-only).

Select repositories ▼

Selected 1 repository.

nerdiorhubmaster/nerdiorhubmaster X

- **Permissions:** Expand the **Repository permissions** menu, and then define the following:
  - **Contents:** Expand the **Access** menu and select **Read-only**.



**Contents** ⓘ  
Repository contents, commits, branches, downloads, releases, and merges.

Access: Read-only ▼

**Custom properties** ⓘ  
View and set values for a repository's custom properties, when allowed by the project.

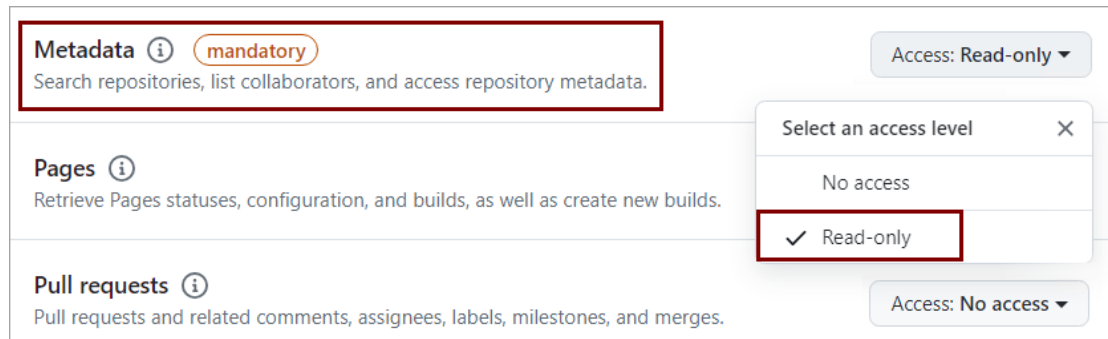
**Dependabot alerts** ⓘ  
Retrieve Dependabot alerts.

Select an access level X

- No access
- ✓ Read-only
- Read and write



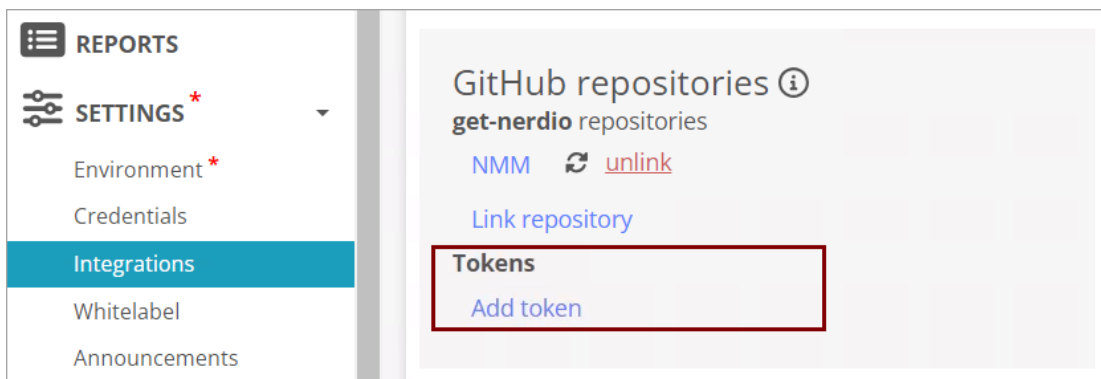
- **Metadata:** Expand the **Access** menu and select **Read-only** (this option is required).



5. Select **Generate token**.
6. Save the token to Notepad, and then next to the token secret, select **Copy**.

**Warning:** Do not close the token window until the token is saved in Nerdio Manager.

7. In Nerdio Manager, at the MSP level, go to **Settings > Integrations**.
8. In the **GitHub repositories** section, select **Add token**.



9. In the new dialog box, provide the token name and paste the GitHub token that you previously saved to Notepad. Select **OK**.

ADD GITHUB ACCESS TOKEN

Add a new personal access token created in GitHub. This token will be used when linking repositories. [Learn more](#) about creating personal access tokens.

Token name ⓘ

MyRepoToken

GitHub access token ⓘ

.....

Cancel

OK

10. Above **Tokens**, select **Link repository**.

11. In the new dialog box, provide the following details:

- **GitHub Account:** Enter your username for the GitHub account.

**Important!** The GitHub account username is not your email address.

- **GitHub Repository:** Provide the path to your GitHub repository.
- **GitHub access token:** From the drop-down list, select the token that you previously added.
- Add paths for the following scripted actions to mirror two folders that were previously created:

Windows script	<ul style="list-style-type: none"><li>• <b>Path:</b> /windows</li><li>• <b>Branch:</b> The <b>main</b> branch is predefined and can remain as default.</li><li>• <b>File extension:</b> The <b>ps1</b> extension is predefined and can remain as default.</li><li>• <b>File content:</b> <b>Windows script</b> is predefined and can remain as default.</li><li>• Select <b>Add</b>.</li></ul>
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Azure runbook	<ul style="list-style-type: none"> <li>• <b>Path:</b> /runbooks</li> <li>• <b>Branch:</b> The <code>main</code> branch is predefined and can remain as default.</li> <li>• <b>File extension:</b> The <code>ps1</code> extension is predefined and can remain as default.</li> <li>• <b>File content:</b> Azure runbook is predefined and can remain as default.</li> <li>• Select <b>Add</b>.</li> </ul>
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- Ensure the **Auto-synchronization enabled** option is **ON**, and then select **OK**.

LINK AND MANAGE REPOSITORY

GitHub Account ⓘ

JohnSmith

GitHub Repository ⓘ

https://github.com/JohnSmith/MyRepo

GitHub access token ⓘ

.....

Path ⓘ

/windows

Branch ⓘ

main x | v

File extensions ⓘ

.ps1 x | v

File content ⓘ

Windows script v

Include subfolders ⓘ

☒ x

Add

Auto-synchronization enabled ⓘ

On

Cancel

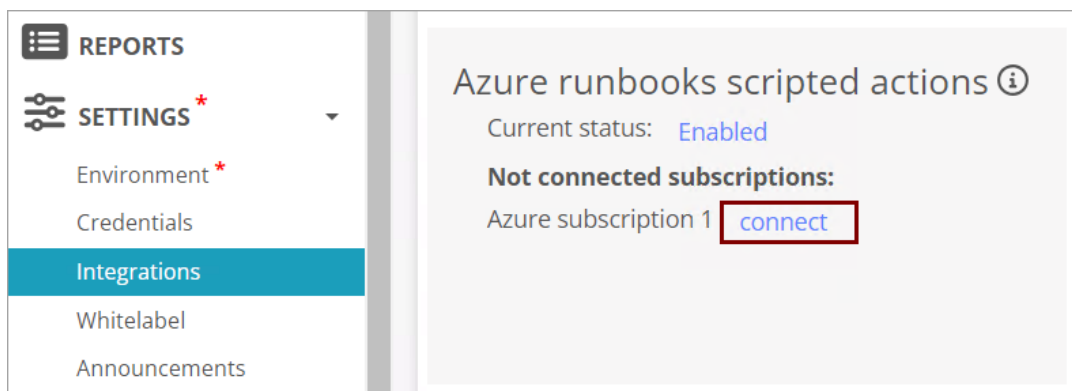
OK

## 3.2 Enable Azure Runbooks Scripted Actions

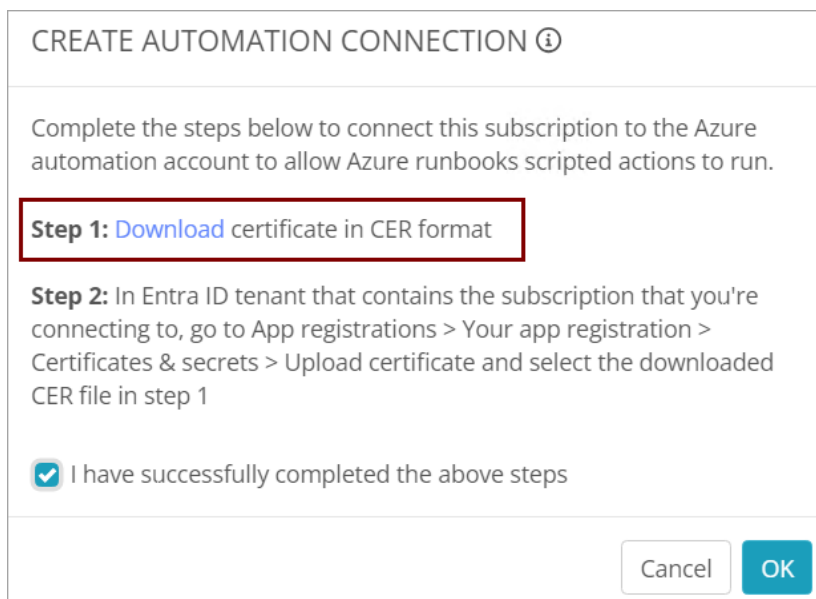
The next step is to enable Azure runbooks scripted actions in Nerdio Manager.

To enable Azure runbooks:

1. Download the certificate from Nerdio Manager:
  - a. Go to **Settings** > **Integrations**, and in the **Azure runbooks scripted actions** section, ensure the **Current status** field is set to **Enabled**.
  - b. Select **connect** to connect your subscription.

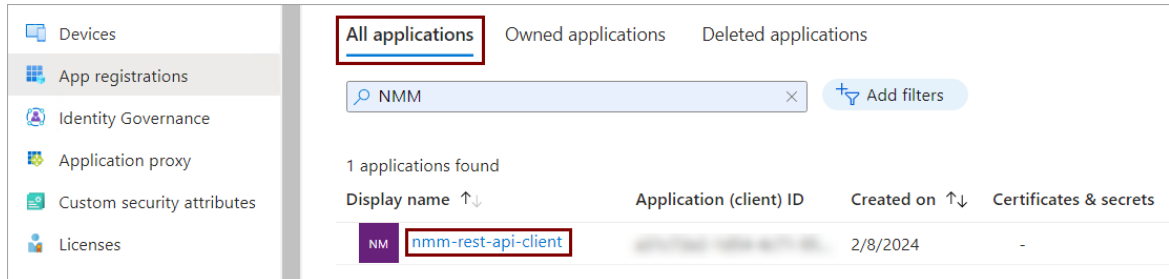


- c. In the **Create automation connection** dialog box, select **Download**, and then save the certificate to your downloads location.

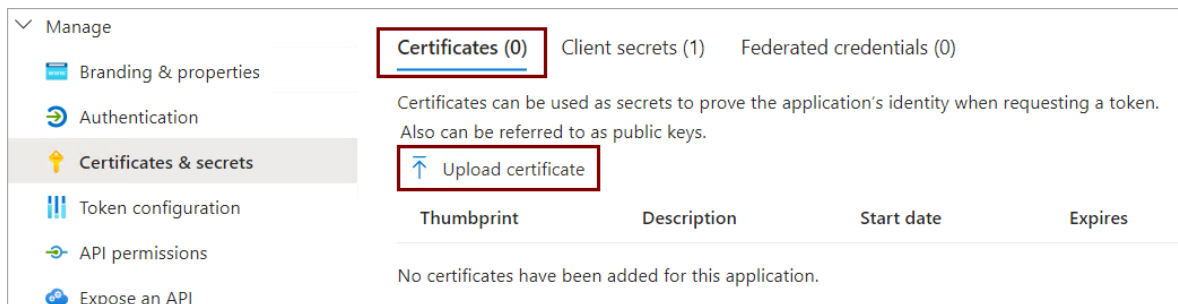


2. Upload the certificate to the Azure Portal:

- a. Open the Azure Portal where Nerdio Manager is installed, and navigate to **Microsoft Entra ID**.
- b. In the side pane, go to **Manage > App registrations**.
- c. On the **All applications** tab, in the **Display name** section, select the Nerdio Manager web app.

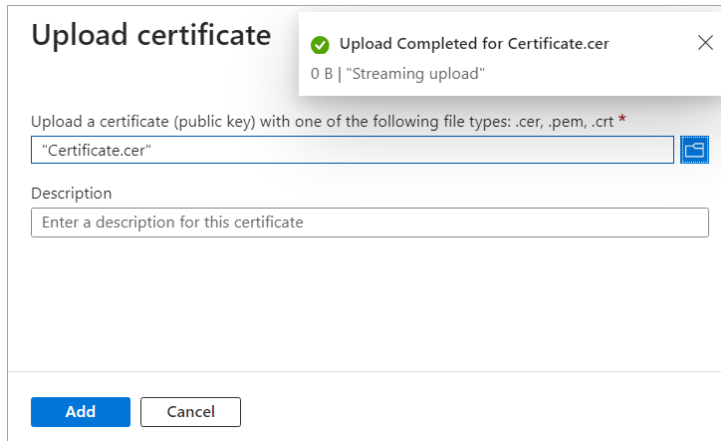


- d. On the Nerdio Manager app service page, go to **Manage > Certificates & secrets**.
- e. On the **Certificates** tab, select **Upload certificate**.

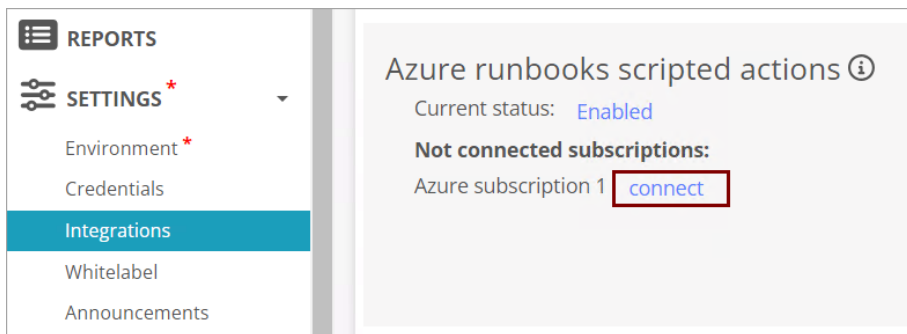


- f. In the **Upload certificate** pane that opens on the right, click **Select a file**, and then browse to your downloads location where you previously saved the certificate. Select the certificate to upload it to the portal.

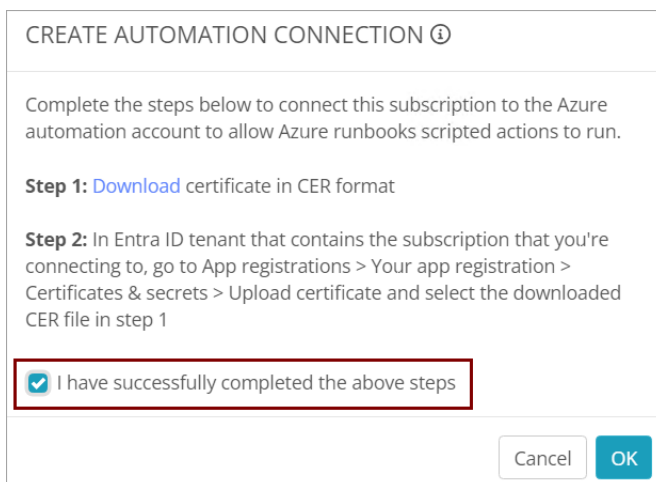
- g. Optionally, add the description, and then select **Add**.



3. Go back to **Nerdio Manager > Settings > Integrations**.
4. In the **Azure runbooks scripted actions** section, select **connect** again.



5. In the **Create automation connection** dialog box, select the checkbox to confirm that you have completed the above steps. Select **OK**.



Both GitHub and Azure runbooks are now enabled in your Nerdio Manager **Integrations** module.