

# Source control – Connecting Data Factory with GitHub Organization Repo (public or private repo)

Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

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## Issue

Customer wants to connect an Organization repo (Public or Private) with Azure Data Factory.

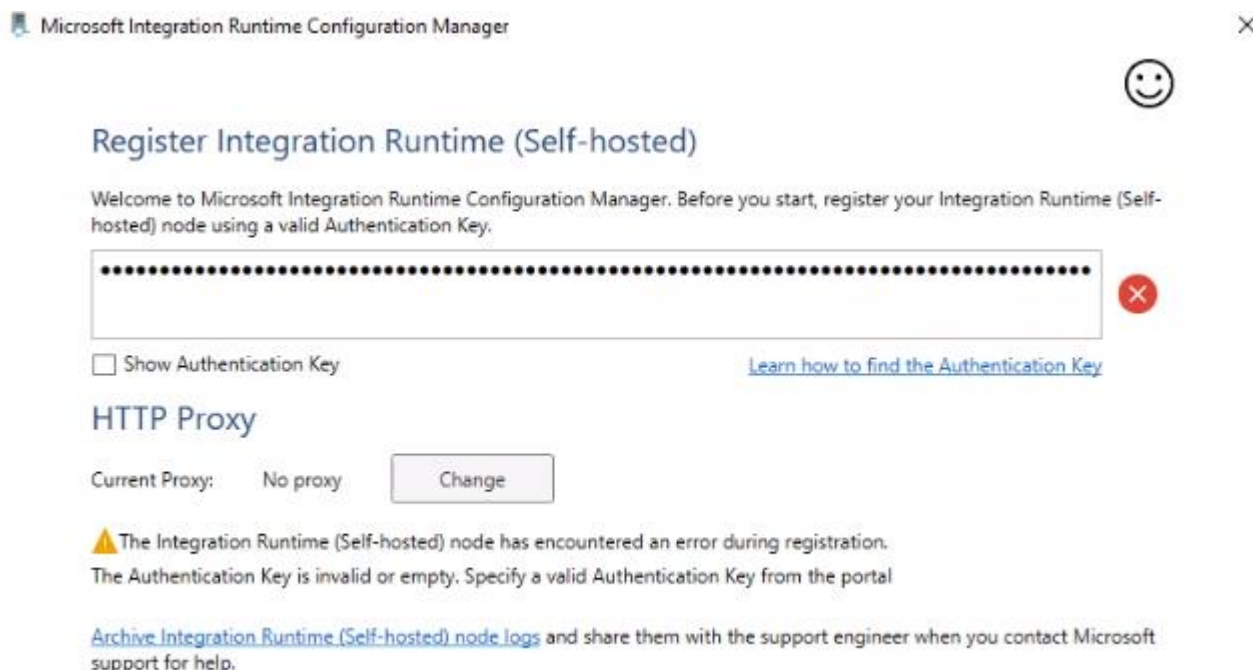
## Recommendation

Connecting to a GitHub organization will require the organization to Grant permission to Azure Data Factory

**Note:** Only the user with ADMIN permission on the Organization would be able to perform the below steps (on time mandatory steps to grant permission)

1. If the customer is connecting to GitHub for the first time, follow the below steps:

- On the "Repository Settings" page, under "GitHub Account" kindly add the organization name.



The screenshot shows the 'Microsoft Integration Runtime Configuration Manager' window. The title bar includes a close button (X). The main heading is 'Register Integration Runtime (Self-hosted)'. Below this, a message states: 'Welcome to Microsoft Integration Runtime Configuration Manager. Before you start, register your Integration Runtime (Self-hosted) node using a valid Authentication Key.' There is a text input field for the 'Authentication Key' which is currently empty and has a red 'X' icon to its right. Below the input field is a checkbox labeled 'Show Authentication Key' and a link that says 'Learn how to find the Authentication Key'. The next section is 'HTTP Proxy', with 'Current Proxy:' set to 'No proxy' and a 'Change' button. At the bottom, a yellow warning triangle icon is followed by the text: 'The Integration Runtime (Self-hosted) node has encountered an error during registration. The Authentication Key is invalid or empty. Specify a valid Authentication Key from the portal'. Below this is a link: 'Archive Integration Runtime (Self-hosted) node logs' and the text: 'and share them with the support engineer when you contact Microsoft support for help.'

- A prompt to login in into GitHub will appear, add user credentials which will as ask to authorize Azure Data Factory with an application name as "AzureDataFactory" or "AzureDataFactoryMSInternal". below the page, there is an option to grant permission for the Organization as shown below

**Note:** App name "AzureDataFactory" will be for External customer and "AzureDataFactoryMSInternal" is for internal subscription.

```
C:\Users\M9600211\Downloads\PsTools>ping -n 1 -l 64 -w 10000 10.10.10.10:443

PsPing v2.10 - PsPing - ping, latency, bandwidth measurement utility
Copyright (C) 2012-2016 Mark Russinovich
Sysinternals - www.sysinternals.com

TCP connect to 10.10.10.10:443:
```

- Once the permission is granted and Authorized, the Data factory would be able to connect to a public or a private repo within an Organization.
  - Incase Option A does not work, kindly clear browser cache and retry.
2. If the customer has already attempted to connect to GitHub and has only granted permission to access a personal account, Follow the below steps in GitHub to grant permission on the Organization.
- Open user setting in GitHub.

\*hosts - Notepad

```
File Edit Format View Help
# Copyright (c) 1993-2009 Microsoft Corp.
#
# This is a sample HOSTS file used by Microsoft TCP/IP for Windows.
#
# This file contains the mappings of IP addresses to host names. Each
# entry should be kept on an individual line. The IP address should
# be placed in the first column followed by the corresponding host name.
# The IP address and the host name should be separated by at least one
# space.
#
# Additionally, comments (such as these) may be inserted on individual
# lines or following the machine name denoted by a '#' symbol.
#
# For example:
#
#          rhino.acme.com          # source server
#          x.acme.com              # x client host

# localhost name resolution is handled within DNS itself.
#          0.0.0.1        localhost
#          ::1            localhost
```

```
          .datafactory.azure.net
```

- Under Setting, click on "Application" -> "Authorized OAuth Apps", where you can find "AzureDataFactory" or "AzureDataFactoryMSInternal" (based on internal or external customer)

The screenshot shows the GitHub 'Personal settings' page for user CesarBerard. The left sidebar contains various settings categories, with 'Applications' highlighted. The main content area is titled 'Applications' and shows a tab for 'Authorized OAuth Apps'. Below the tabs, it states 'You have granted 4 applications access to your account.' and lists four applications: AzureDataFactory, AzureDataFactoryMSInternal, AzureDataFactoryStaging, and RegExr. Each application entry includes its icon, name, last used date, and owner. A link to 'Read more about connecting with third-party applications at GitHub Help.' is at the bottom.

- Click on the application, which will have the option to "Grant" permission to the Organization required.

```
C:\Users\M9600211\Downloads\PSTools>psping.exe -u [redacted] s.datafactory.azure.net:443

PsPing v2.10 - PsPing - ping, latency, bandwidth measurement utility
Copyright (C) 2012-2016 Mark Russinovich
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TCP connect to [redacted] [redacted]:443:
5 iterations (maximum 1) ping test:
```

- Once the permission is granted, Data factory would be able to connect to a public or a private repo within an Organization.

### Additional Information:

- Icm/SR References:**
- Author:** v-manant, ceespino
- Reviewer:** rakatuko
- Keywords:**

**How good have you found this content?**

