

How to update the image location in Container instance

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Table of Content

1	Introduction	3
1.1	Container Instance and image	3
1.2	Microsoft changed the image location: effected 30-06-2024	3
1.3	Microsoft notes	3
2	Update the image in Azure Resources Explorer (manual to-do)	4
3	Start the Container Instance in Azure Portal	7
4	Troubleshooting.....	8

1 Introduction

1.1 Container Instance and image

BI4Dynamics BC gets data from Dynamics BC using Microsoft service called Container Instance. Container instance acts like specialized Virtual Machine used for specific purposes. The purpose of Container instance is defined by the **image** that contains instructions of what Container instance must do. The image location has been changed. The image is the same.

1.2 Microsoft changed the image location: effected 30-06-2024

Images are stored in the Azure. The location of the image has changed. Old image locations are no longer available. BI4Dynamics has published the image to a new Azure location.

Here is what happened:

1. Microsoft deprecated the old location of the images on 30-06-2024.
2. The images have been moved to new Azure location
3. [Azure Container Instance used for BI4Dynamics BC application must be updated to look for Docker image in new location](#)

1.3 Microsoft note

Last year we notified users in email that the agreement between Microsoft and Docker to allow Azure IP addresses to make unlimited anonymous image pulls from Docker Hub will end. However, we extended this deadline until June 30, 2024, in order to provide more time for customers to mitigate this issue. Guidance on the mitigation can be found [Manage public content in private container registry - Azure Container Registry | Microsoft Learn](#).

The best way to mitigate the risk of Docker rate limiting is to use the feature inside Azure Container Registry called Artifact Cache to cache images from Docker Hub to your Azure Container Registry. You can then modify your build and deployment scripts to pull those same images directly from Azure Container Registry. Alternatively, you can purchase a Subscription from Docker. Purchasing a subscription from Docker will increase the amount of pulls a user can have without hitting the anonymous pull limit.

This extended deadline passed recently, which now causes rate limiting on anonymous pulls done to Docker Hub. I've escalated the situation to the Product Group who may provide some additional possibilities for getting around this. To allow ACI authenticating to Docker Hub you would need to recreate the container group, passing the credentials at creation time with the appropriate --registry flags: [az container | Microsoft Learn](#)

In this document we explain how to change the image location to continue using BI4Dynamics BC.

Note:

- There is no need to change **Container Instance** installation
- There is no change in **BI4Dynamics application**
- There is no need to change permissions
- We need to [change the image location in the BI4Dynamics Container Instance setup in Azure portal](#), so that Container Instance is pulling image from new location (one line of code).

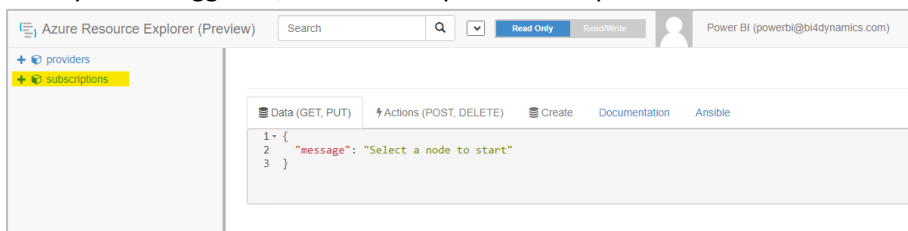
2 Update the image in Azure Resources Explorer (manual to-do)

This is explanation of how Azure resources are storing information and where to do the change.

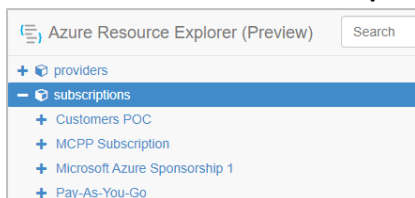
Open Azure Resource Explorer and log in under Entra ID account: <https://resources.azure.com>

Important: the account must have the role of **Contributor** or **Owner** for the container instance

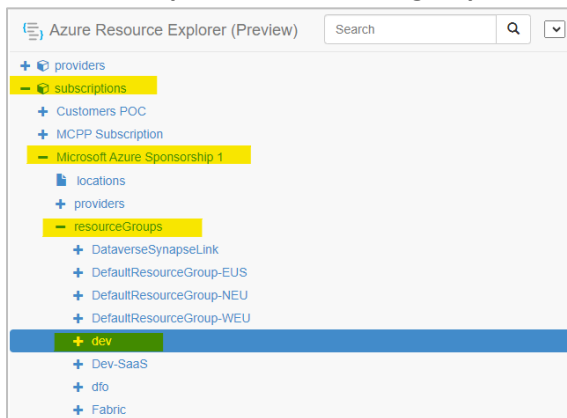
Once you are logged in, extend the option subscriptions:



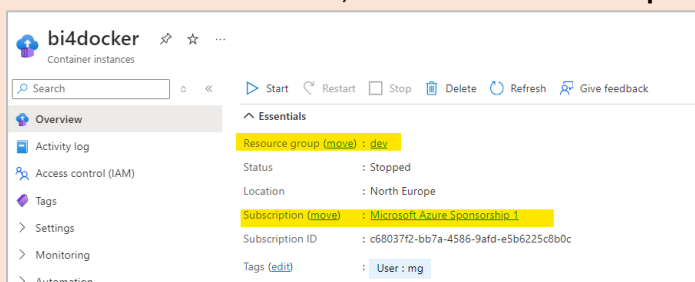
The full list of available **subscriptions** will be shown:



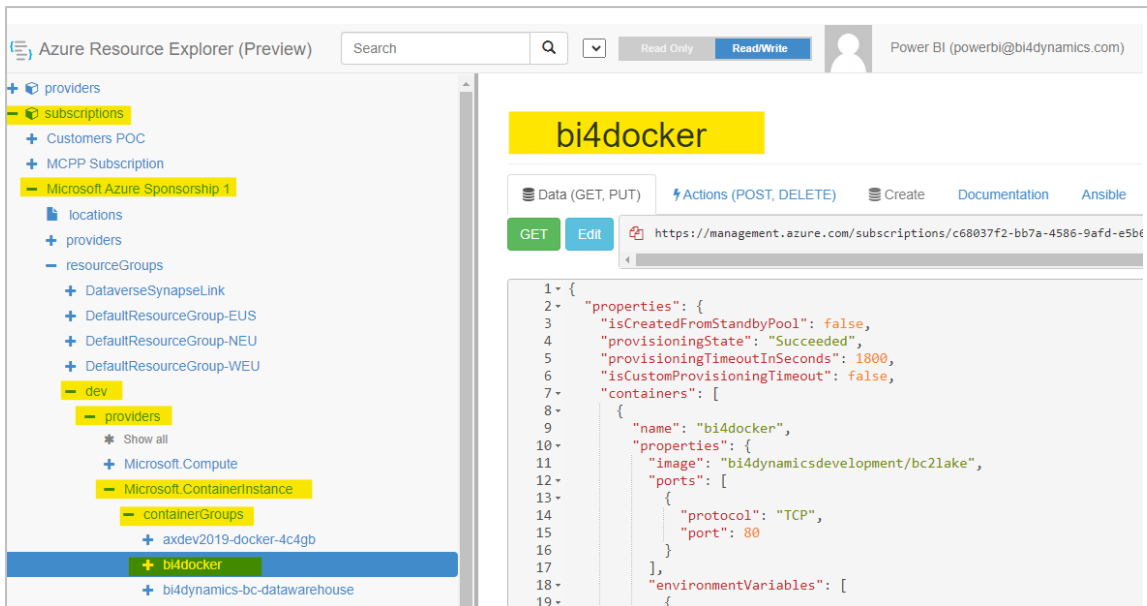
Select **Subscription** and **Resource group** where your container instance is located:



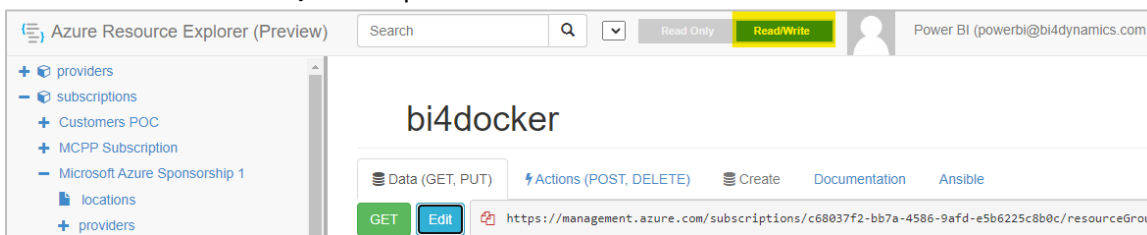
Note: If you are not sure what is the name of the **Subscription** or the **Resource group** where your container instance is located, it can be found in **Azure portal** under **Overview** section.



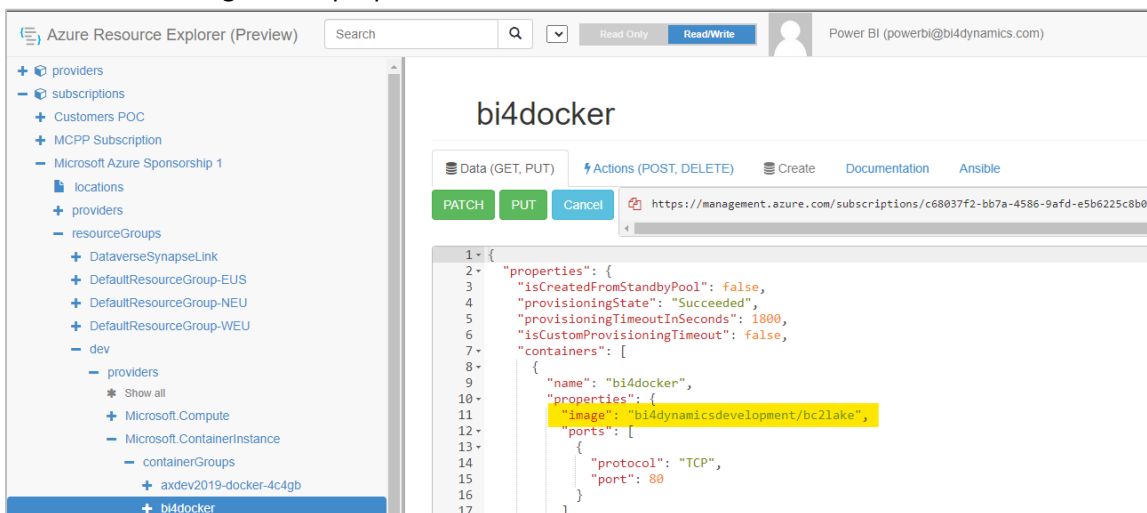
Under the selected Resource group extend **providers** and search for **Microsoft.ContainerInstance**. Extend the **containerGroups** and click on the name of the container instance we need to update. **Scripted properties** of the container instance should become visible:



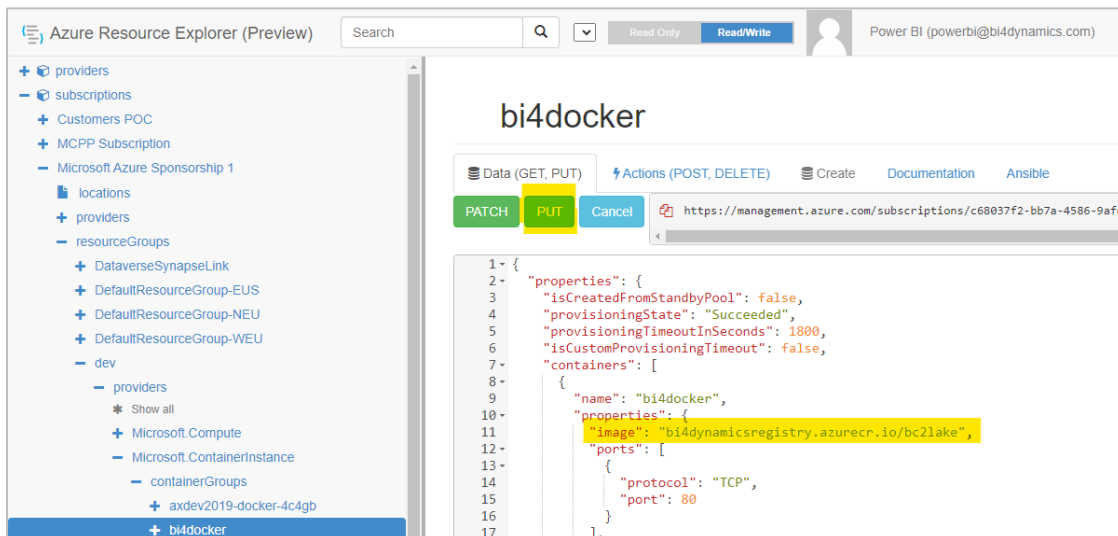
Make sure that the **Read/Write** option selected and click on **Edit**:



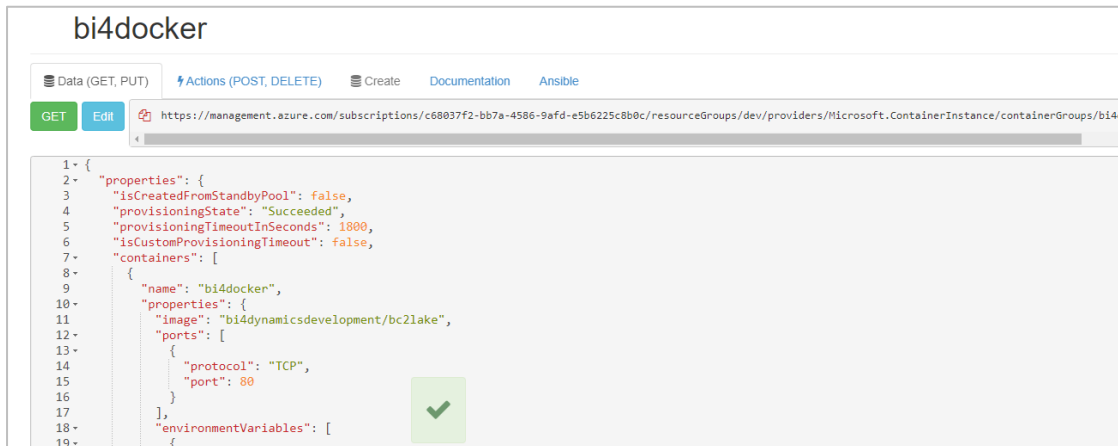
Search for the image in the properties of the container instance:



Change the value from **bi4dynamicsdevelopment/bc2laketo** **bi4dynamicsregistry.azurecr.io/bc2lake** and click on **PUT**:



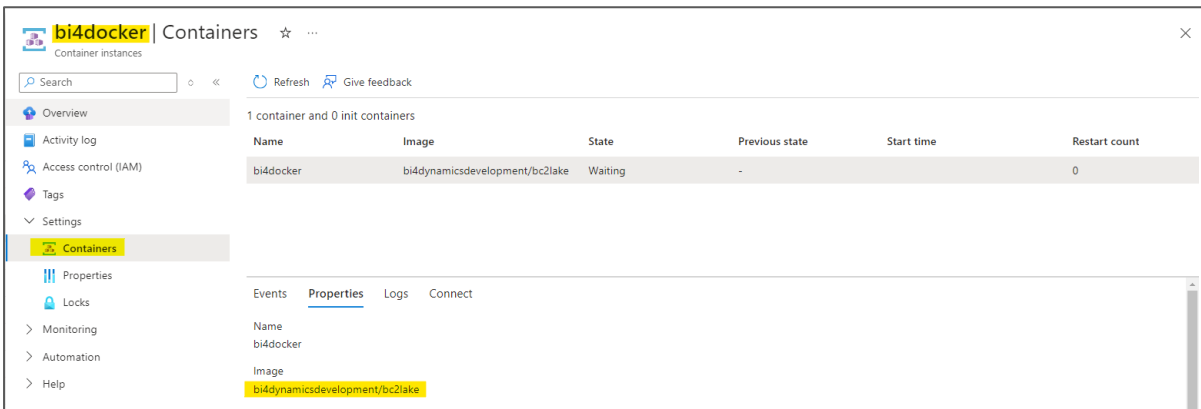
Wait until the changes are saved (green tick icon should appear for couple of seconds):



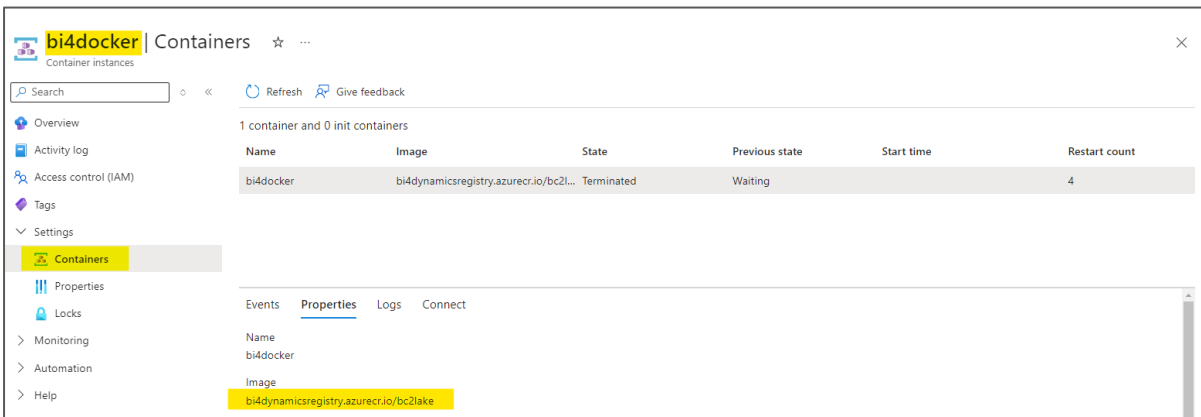
3 Start the Container Instance in Azure Portal

In Azure Portal, navigate to the **Settings** and make sure that the image is updated.

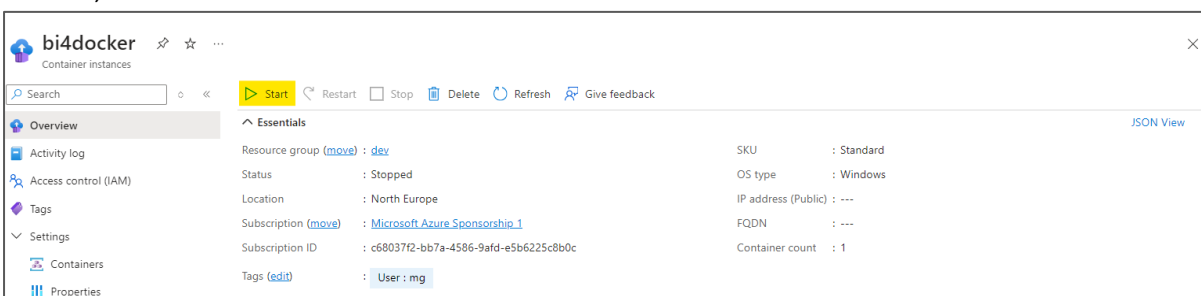
Container Instance pointing to **old image location**:



Container Instance pointing to **new image location**:



To tests, start the container instance under **Overview**:



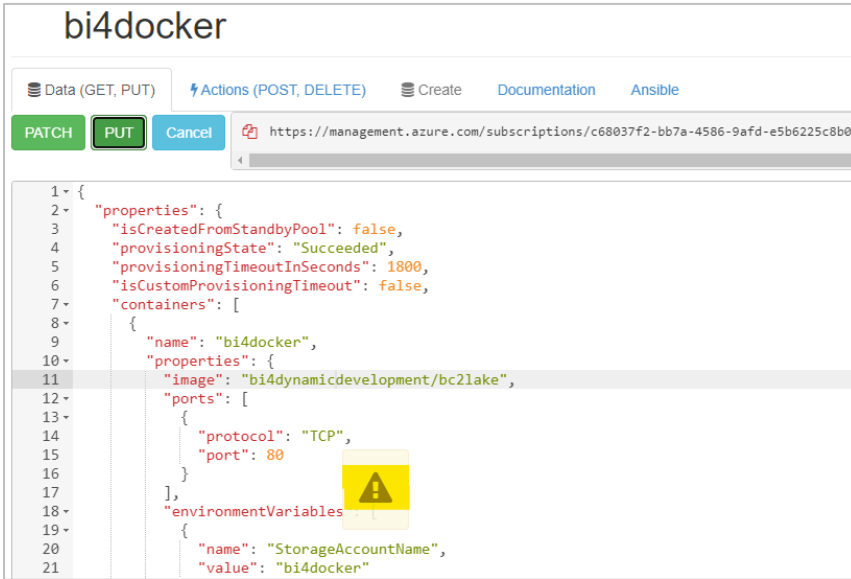
Running container instance has been already setup during BI4Dynamics installations. The update process for

- Container instance update and
- BI4Dynamics Data Warehouse update already exists and there is no need to change it.

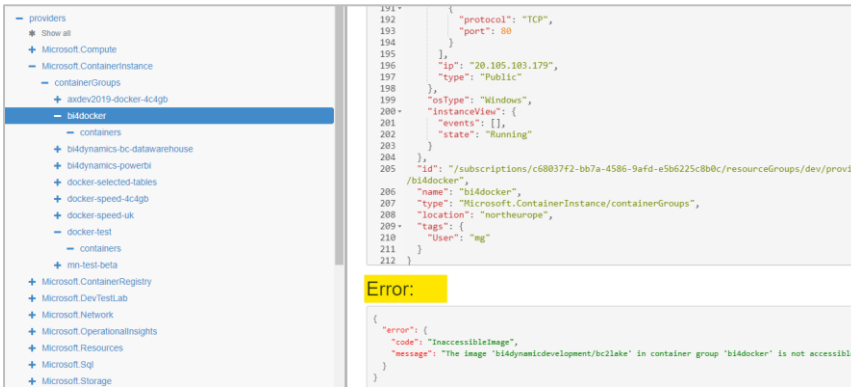
We suggest monitoring the automatic update process for the first time.

4 Troubleshooting

In case of error the following yellow icon will be shown, and the value will not be updated:



Scroll down the page to see the details:

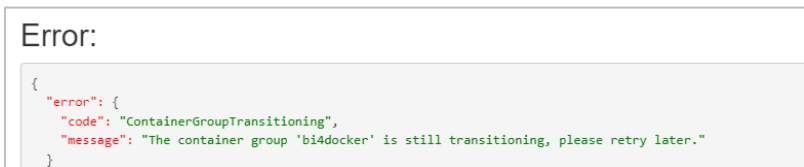


The possible reasons for failing are:

- **Insufficient permissions** of the account we signed in with



- **Container is still in transitioning state** after the last processing



- **The new image name is misspelled**

