CIT – Power BI deployment pipeline

Introduction to deployment pipelines concepts

The deployment pipelines tool enables BI creators to manage the lifecycle of organizational content. Deployment pipelines enable creators to develop and test Power BI content in the Power BI service, before the content is consumed by users.

The deployment process lets you clone content from one stage in the deployment pipeline to another, typically from development to test, and from test to production.

Pipeline Structure

Deployment pipelines is designed as a pipeline with three stages:

Development

This stage is used to design, build, and upload new content with fellow creators. This is the first stage in deployment pipelines.

Test

You're ready to enter the test stage after you've made all the needed changes to your content. You upload the modified content so it can be moved to this test stage. Here are three examples of what can be done in the test environment:

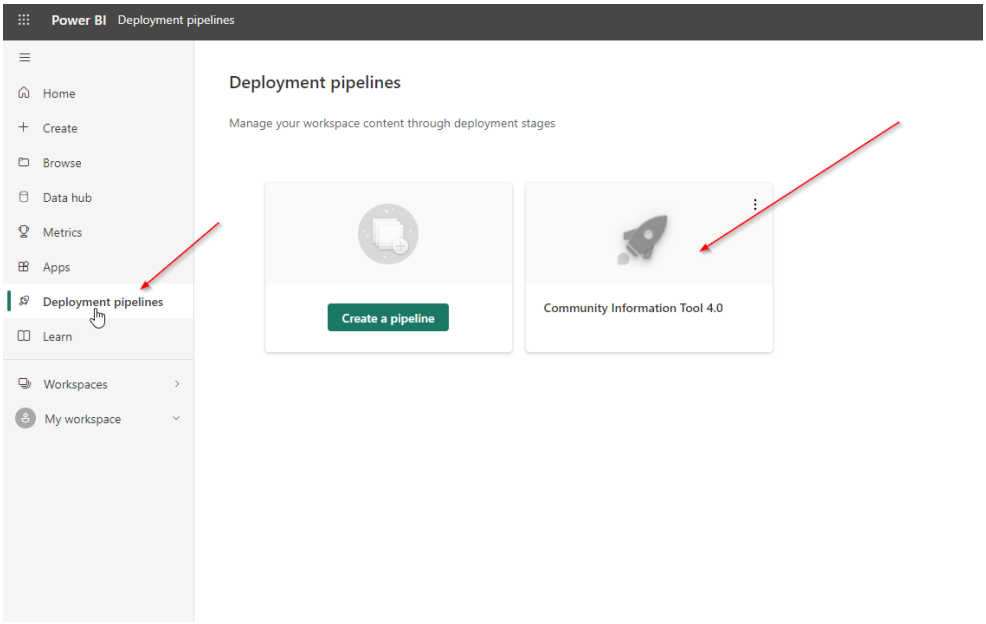
- Share content with testers and reviewers
- Load and run tests with larger volumes of data
- Test your app to see how it will look for your end users

Production

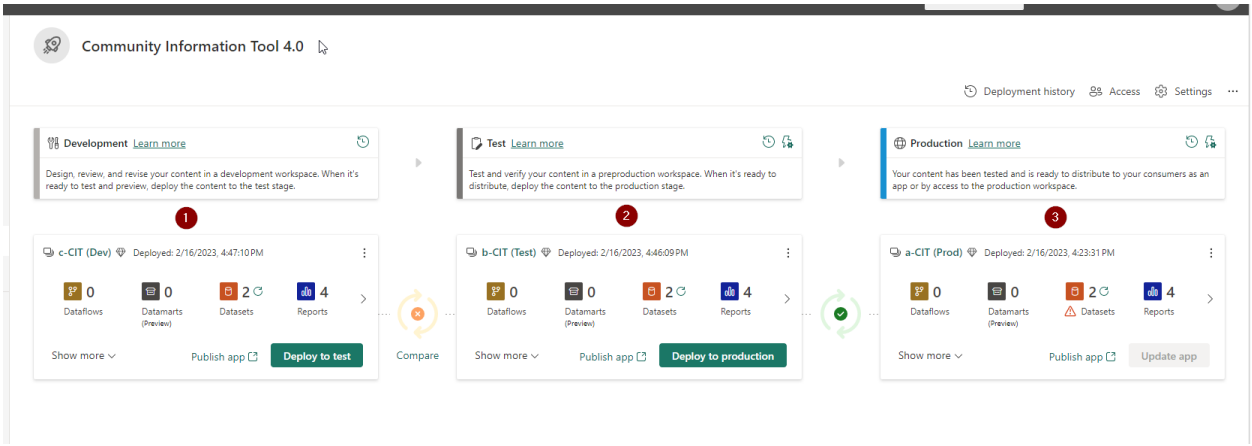
After testing the content, use the production stage to share the final version of your content with business users across the organization.

Deployment

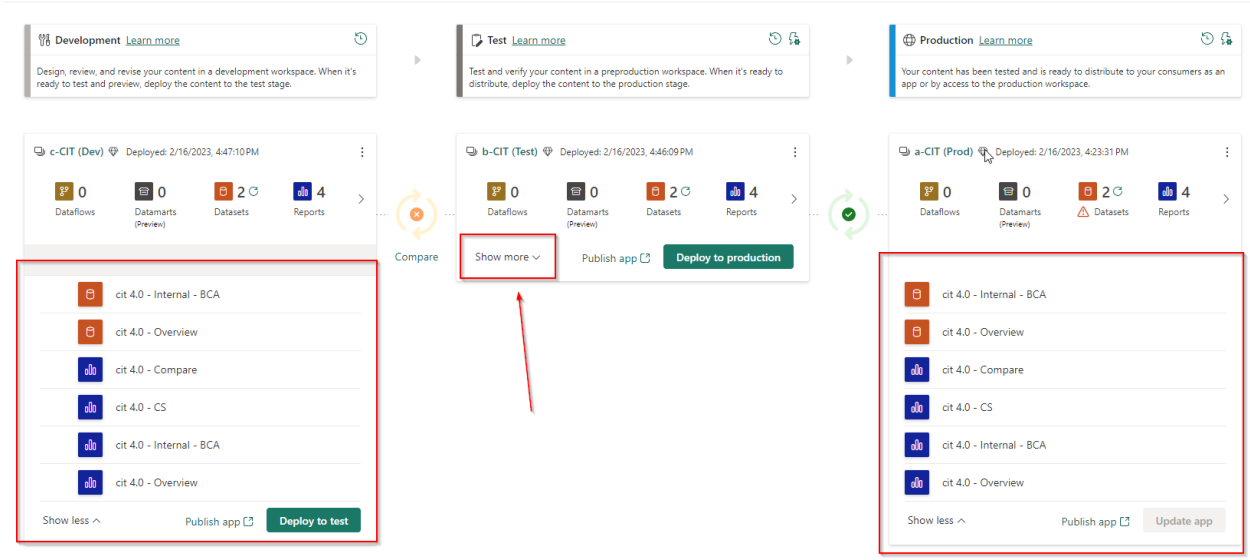
1 - Frist step go to the deployment pipeline:



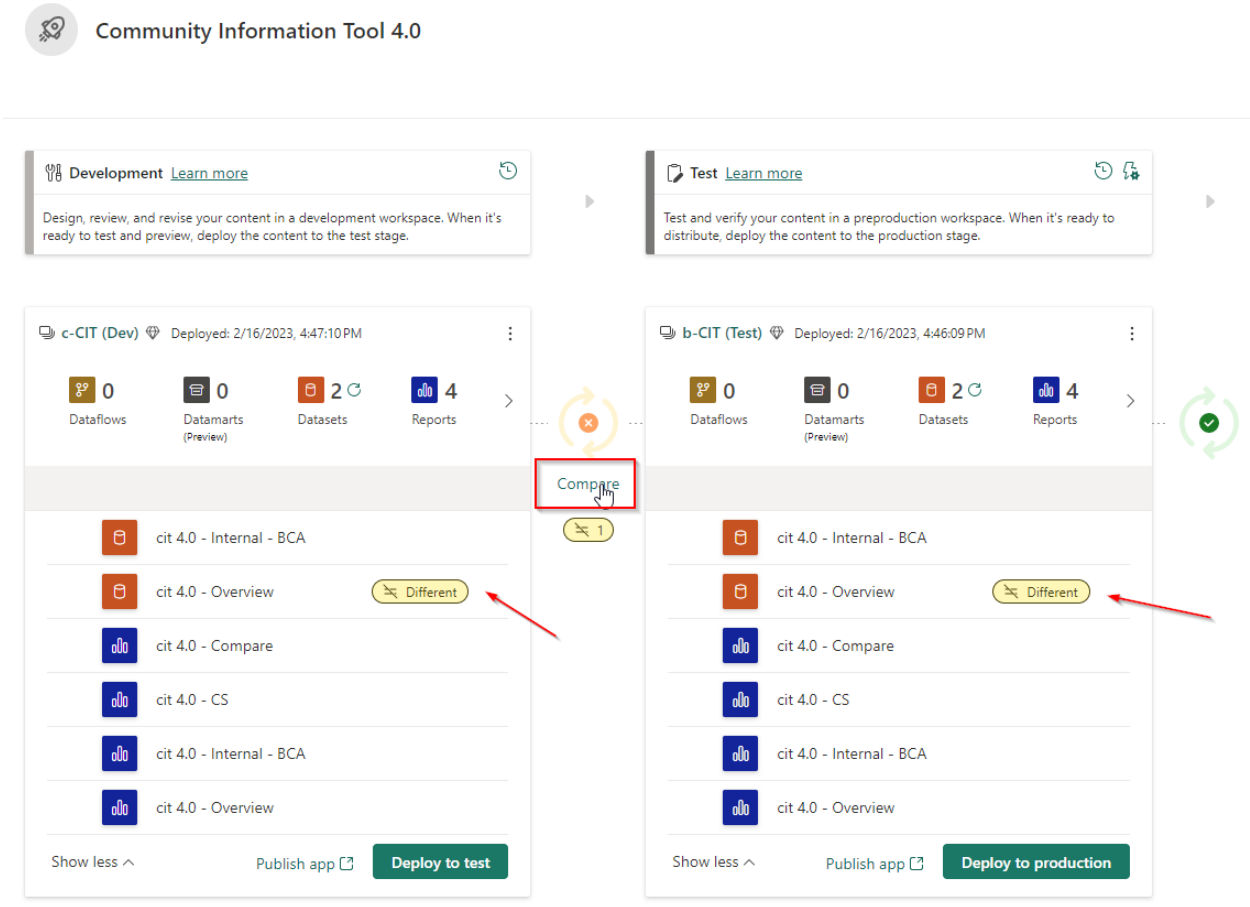
2- Notice the three stages of the deployment and its objects:



3- Click on show more. There will see all the object in each stage and be able to select them individually as opposed to a full deployment



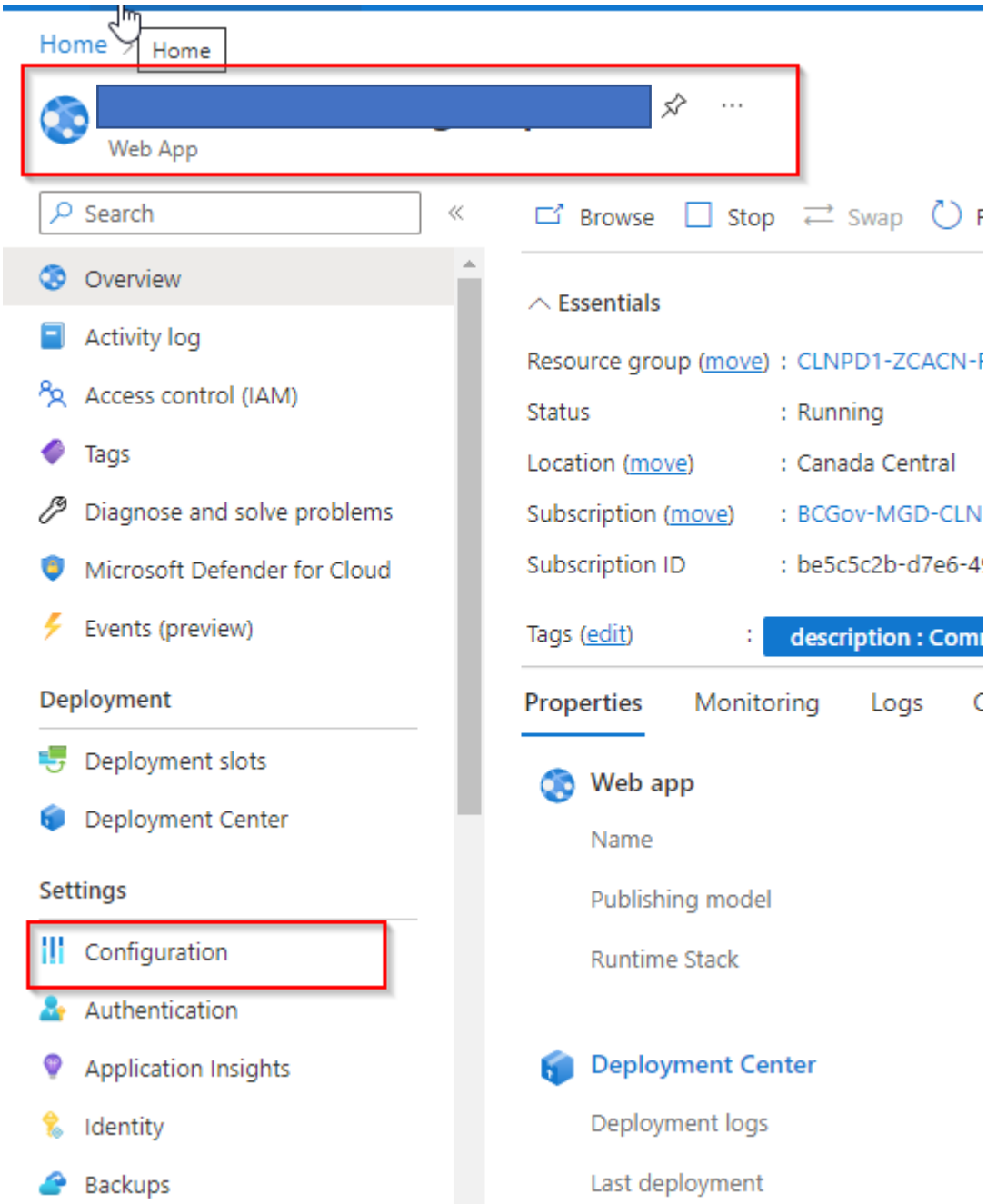
4- When you click in Compare, it will show each object differs from source and target. Usually that is what you will select and deploy to the next stage:



5- Once the deployment in Production workspace is completed you will need to update the Report ID in Azure.
The Report ID is the unique identification that is used to compose the URL that is called from CIT.

Update the Report ID:

1- Go to Azure Resource Group
2- Go to Web app: web-cit3-citz-bcgov-prod
3- Configuration



6- Once in Configuration, these are the variables for each report in CIT. Update the report id according to your deployment:

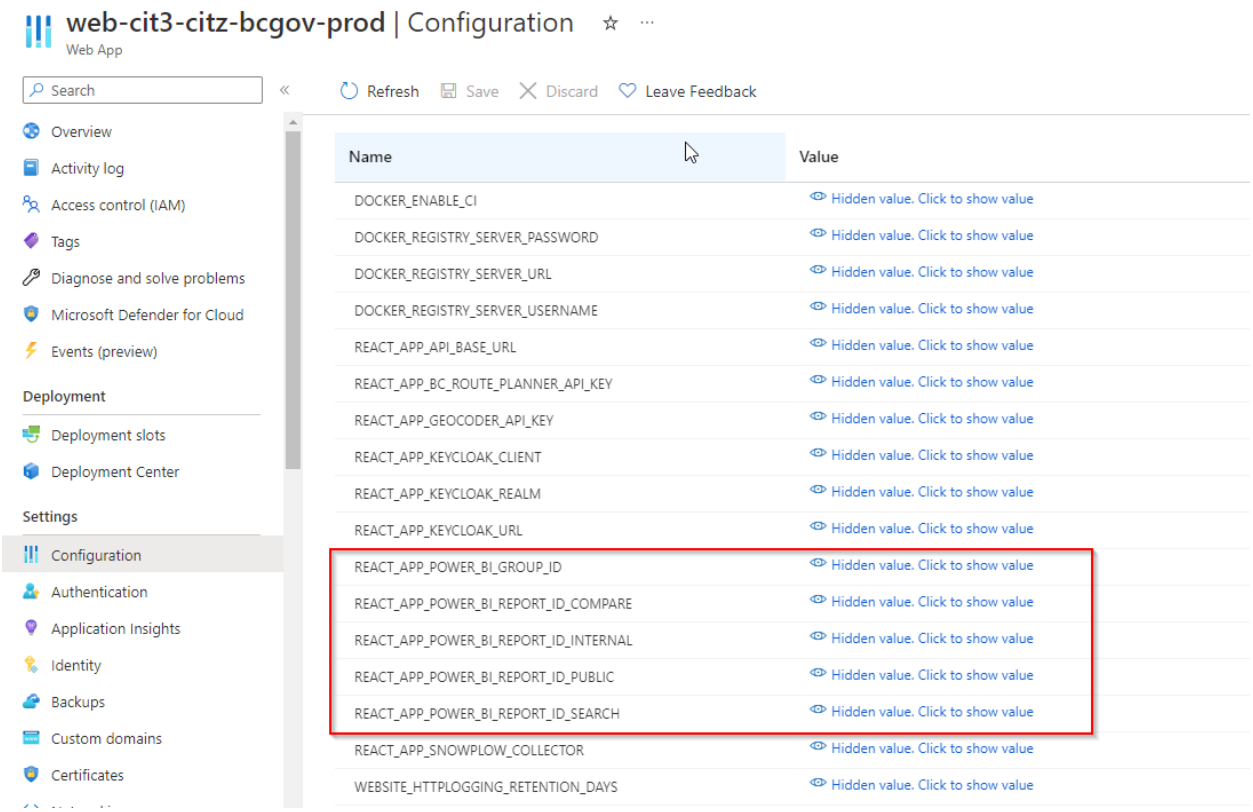
REACT_APP_POWER_BI_GROUP_ID – This is the ID of the workspace. **Do not** to change it.

REACT_APP_POWER_BI_REPORT_ID_COMPARE – This is the ID of the **Compare** report.

REACT_APP_POWER_BI_REPORT_ID_INTERNAL – This is the ID of the **BCA** report.

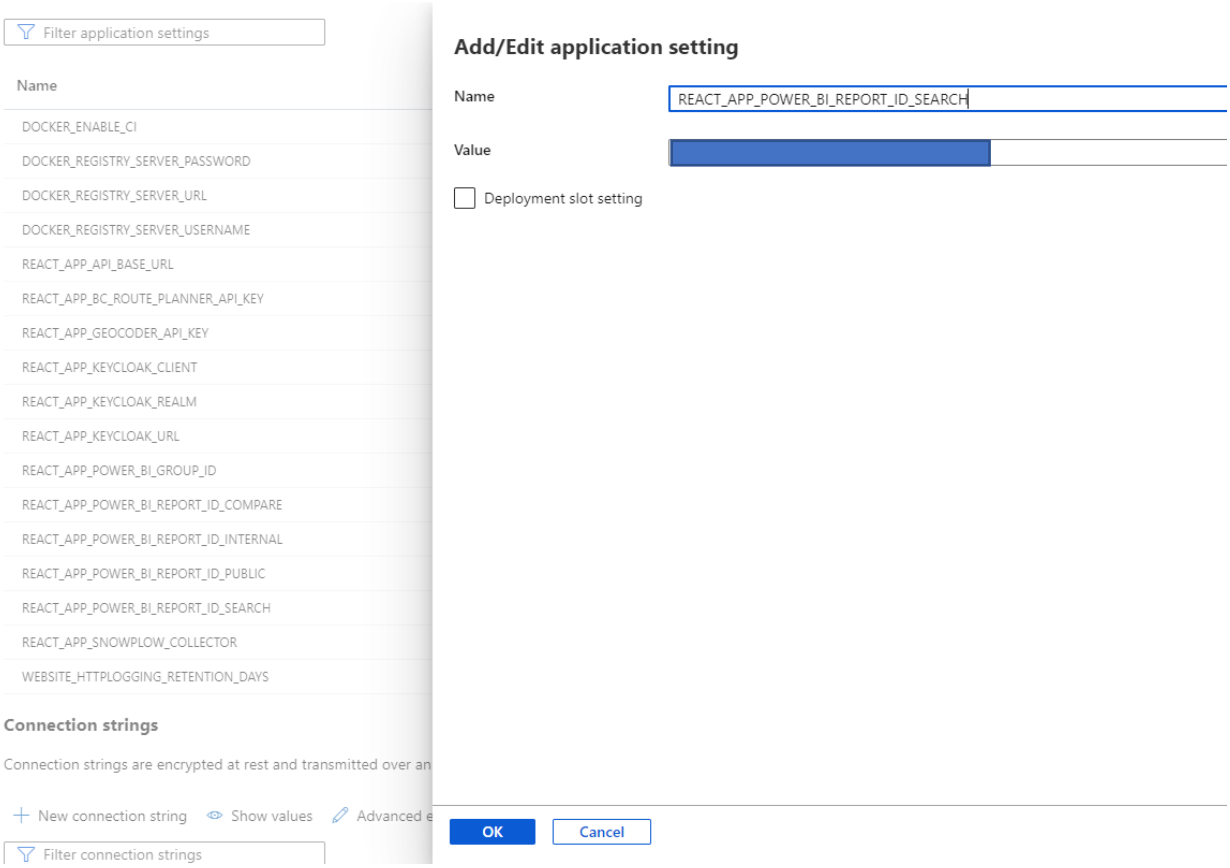
REACT_APP_POWER_BI_REPORT_ID_PUBLIC – This is the ID of the **Overview** report.

REACT_APP_POWER_BI_REPORT_ID_SEARCH – This is the ID of the **CS** report.

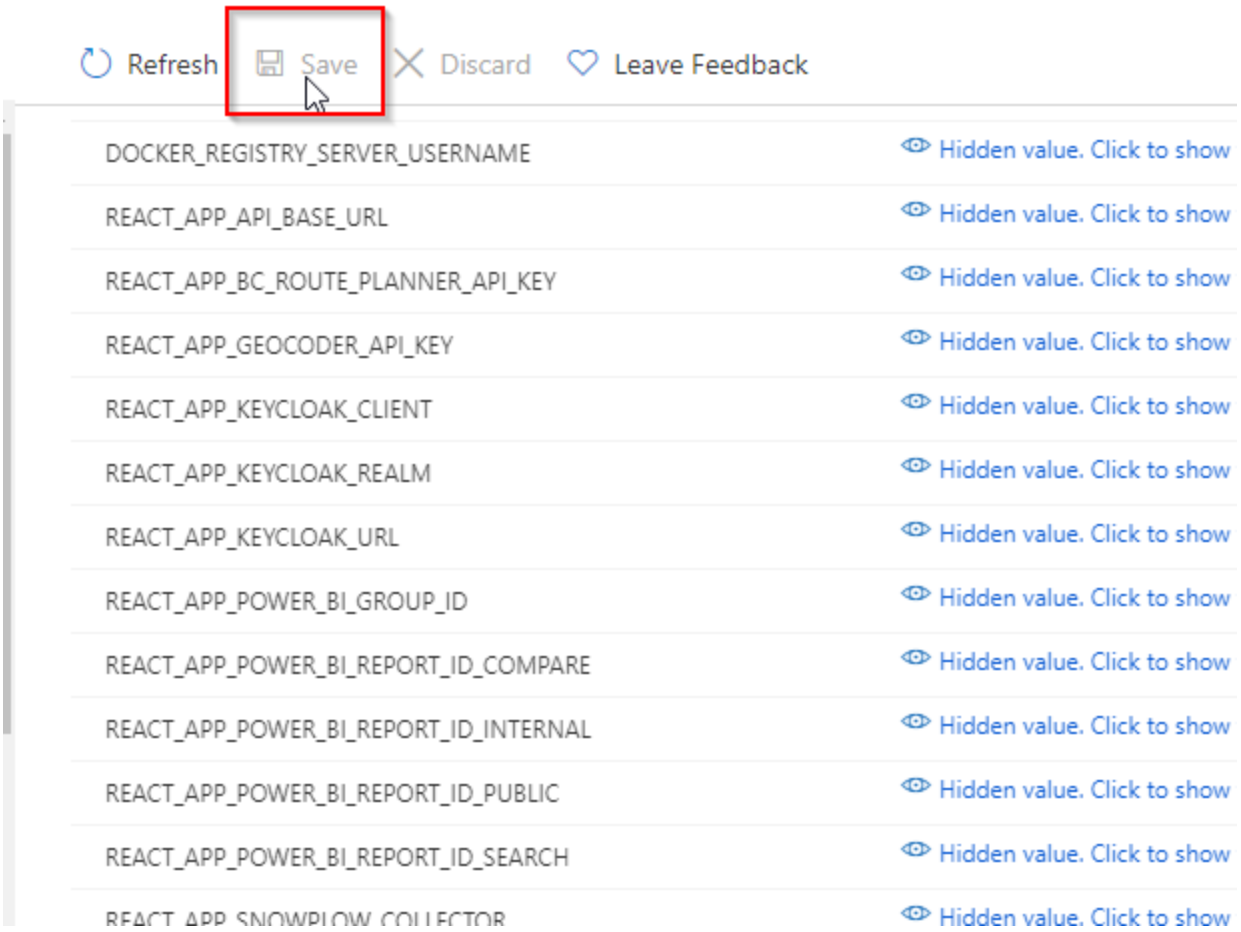


7- Edit the variable by clicking on the pencil on the far right.

Update the Value filed:



8- Click OK then Save:



Official Microsoft references:

Understand the Power BI deployment pipelines process - Power BI | Microsoft Learn

Best practices for deployment pipelines, the Power BI Application lifecycle management (ALM) tool - Power BI | Microsoft Learn