

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:

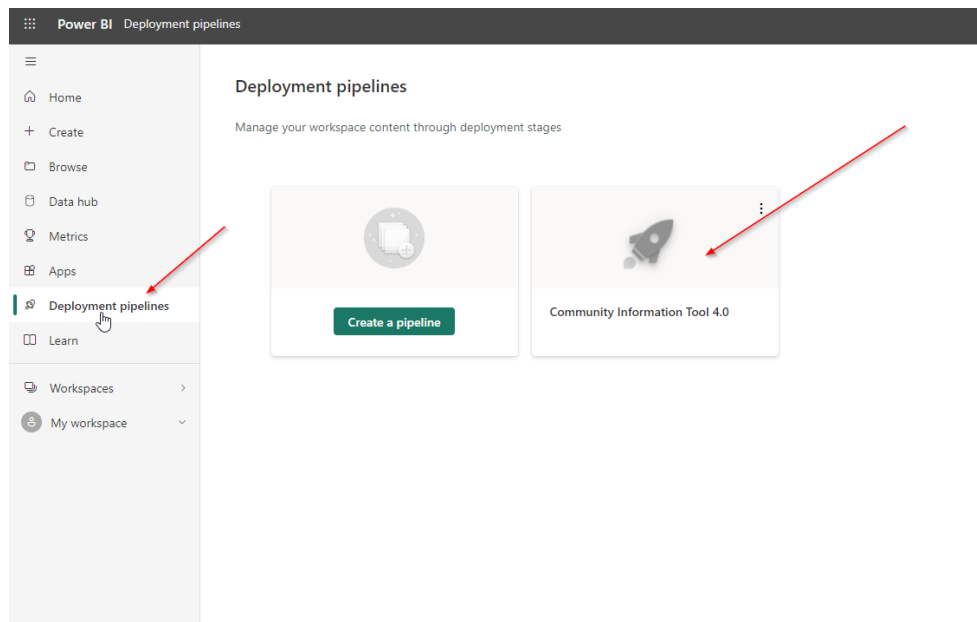
- Share content with testers and reviewers
- Load and run tests with larger volumes of data
- Test your app to see how it will look for your end users

Production

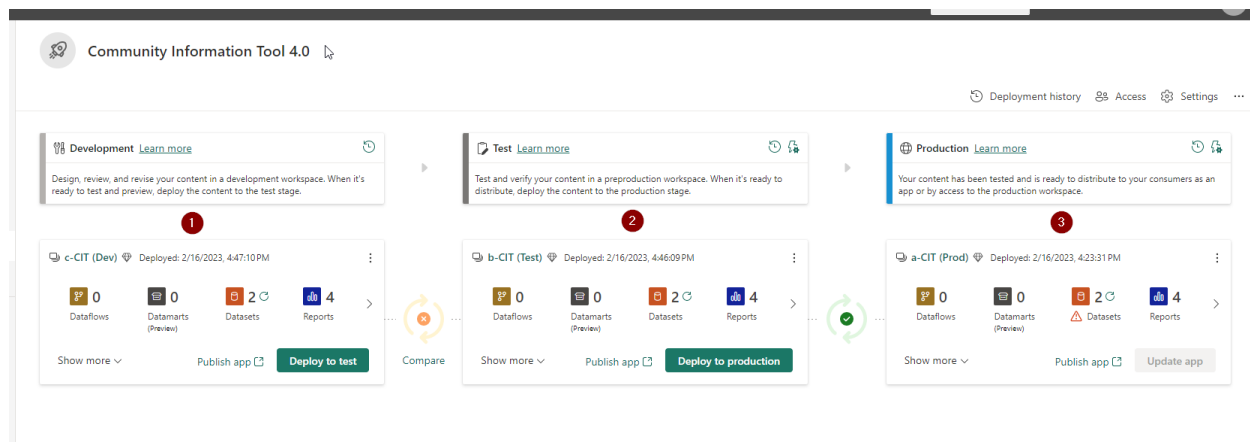
After testing the content, use the production stage to share the final version of your content with business users across the organization.

Deployment

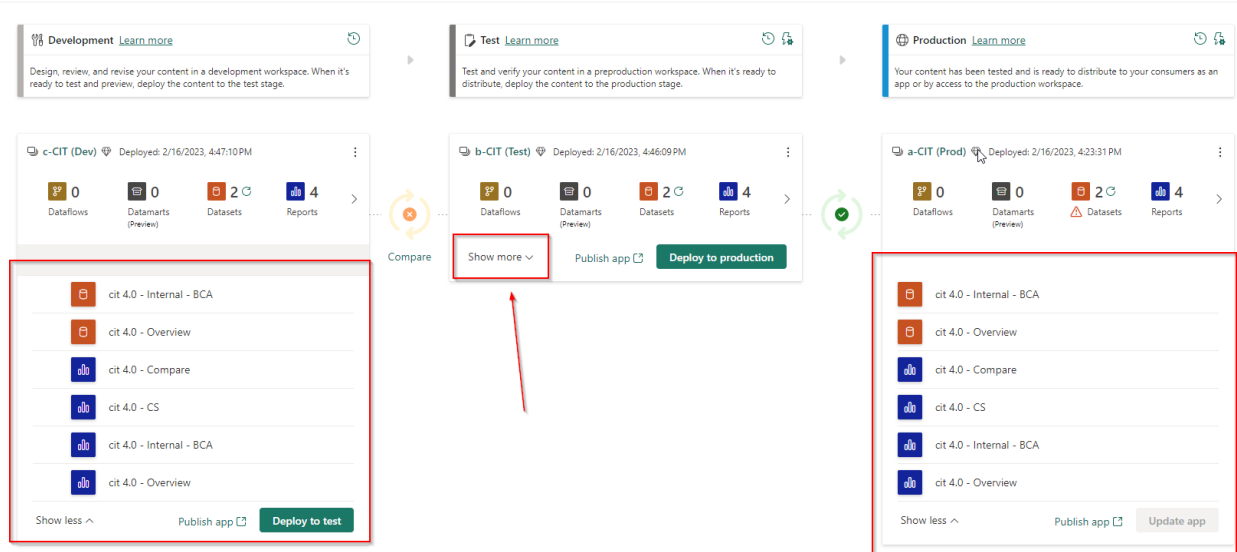
1 - Frist step go to the deployment pipeline:



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



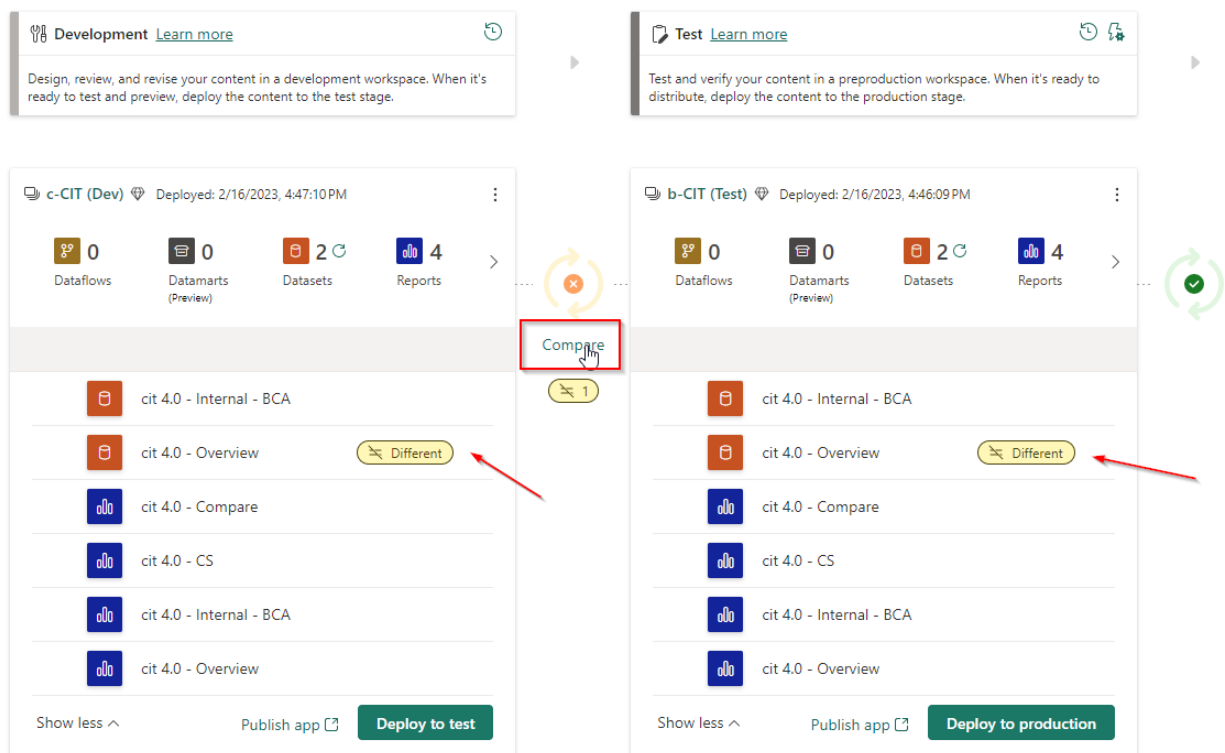
3- Click on show more. There will see all the object in each stage and be able to select them individually as opposed to a full deployment



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:



Community Information Tool 4.0

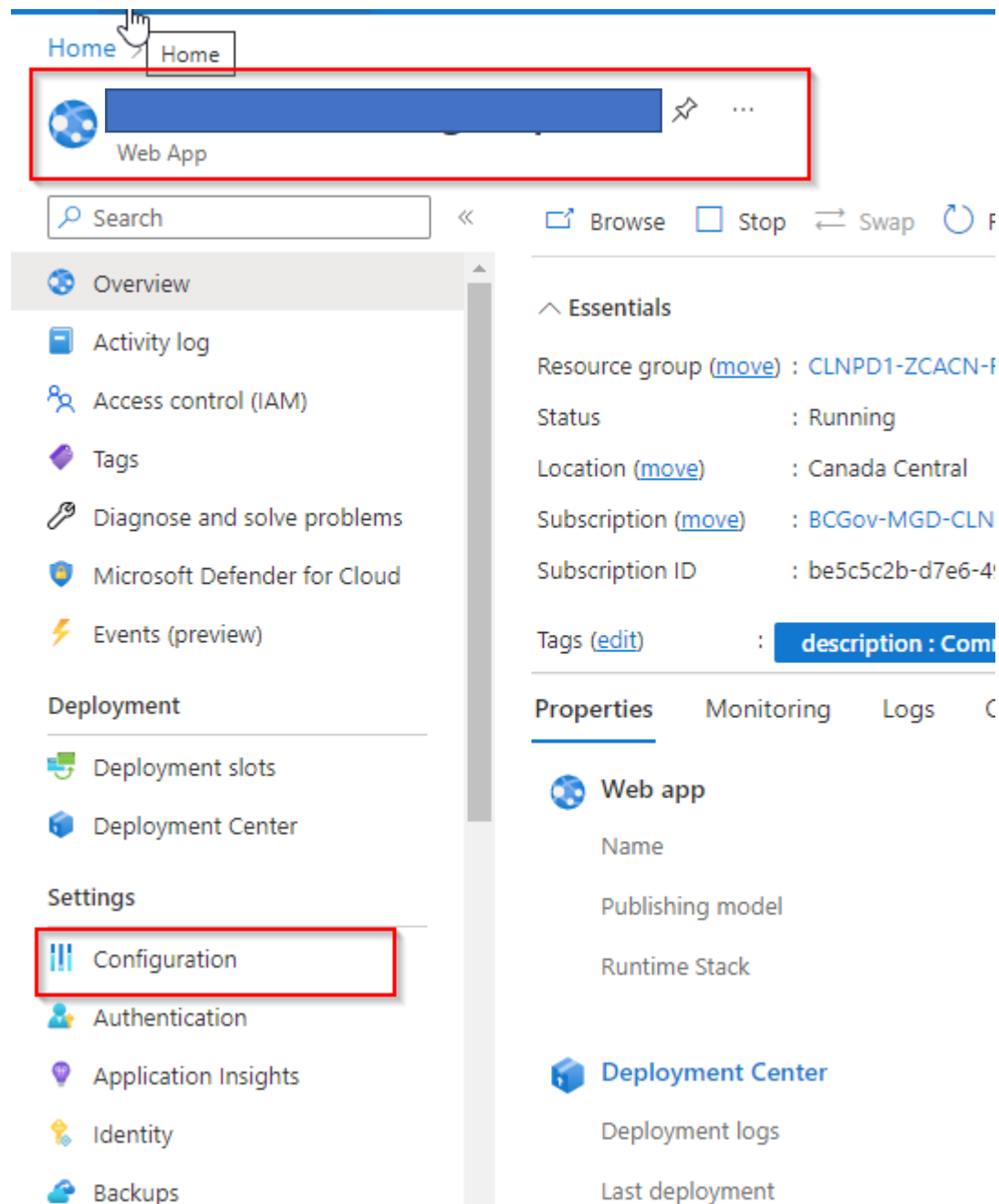


5- Once the deployment in Production workspace is completed you will need to update the Report ID in Azure.

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.

web-cit3-citz-bcgov-prod | Configuration

Search

Refresh Save Discard Leave Feedback

Name	Value
DOCKER_ENABLE_CI	Hidden value. Click to show value
DOCKER_REGISTRY_SERVER_PASSWORD	Hidden value. Click to show value
DOCKER_REGISTRY_SERVER_URL	Hidden value. Click to show value
DOCKER_REGISTRY_SERVER_USERNAME	Hidden value. Click to show value
REACT_APP_API_BASE_URL	Hidden value. Click to show value
REACT_APP_BC_ROUTE_PLANNER_API_KEY	Hidden value. Click to show value
REACT_APP_GEOCODER_API_KEY	Hidden value. Click to show value
REACT_APP_KEYCLOAK_CLIENT	Hidden value. Click to show value
REACT_APP_KEYCLOAK_REALM	Hidden value. Click to show value
REACT_APP_KEYCLOAK_URL	Hidden value. Click to show value
REACT_APP_POWER_BI_GROUP_ID	Hidden value. Click to show value
REACT_APP_POWER_BI_REPORT_ID_COMPARE	Hidden value. Click to show value
REACT_APP_POWER_BI_REPORT_ID_INTERNAL	Hidden value. Click to show value
REACT_APP_POWER_BI_REPORT_ID_PUBLIC	Hidden value. Click to show value
REACT_APP_POWER_BI_REPORT_ID_SEARCH	Hidden value. Click to show value
REACT_APP_SNOWPLOW_COLLECTOR	Hidden value. Click to show value
WEBSITE_HTTPLOGGING_RETENTION_DAYS	Hidden value. Click to show value

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

Update the Value filed:

Filter application settings

Name

DOCKER_ENABLE_CI
DOCKER_REGISTRY_SERVER_PASSWORD
DOCKER_REGISTRY_SERVER_URL
DOCKER_REGISTRY_SERVER_USERNAME
REACT_APP_API_BASE_URL
REACT_APP_BC_ROUTE_PLANNER_API_KEY
REACT_APP_GEOCODER_API_KEY
REACT_APP_KEYCLOAK_CLIENT
REACT_APP_KEYCLOAK_REALM
REACT_APP_KEYCLOAK_URL
REACT_APP_POWER_BI_GROUP_ID
REACT_APP_POWER_BI_REPORT_ID_COMPARE
REACT_APP_POWER_BI_REPORT_ID_INTERNAL
REACT_APP_POWER_BI_REPORT_ID_PUBLIC
REACT_APP_POWER_BI_REPORT_ID_SEARCH
REACT_APP_SNOWPLOW_COLLECTOR
WEBSITE_HTTPLOGGING_RETENTION_DAYS

Connection strings

Connection strings are encrypted at rest and transmitted over an

+ New connection string 👁 Show values ✎ Advanced edit

Filter connection strings

Add/Edit application setting

Name

REACT_APP_POWER_BI_REPORT_ID_SEARCH


















Value

☐ Deployment slot setting

OK

Cancel

8- Click OK then Save:

 Refresh	 Save	 Discard	 Leave Feedback
DOCKER_REGISTRY_SERVER_USERNAME	 Hidden value. Click to show		
REACT_APP_API_BASE_URL	 Hidden value. Click to show		
REACT_APP_BC_ROUTE_PLANNER_API_KEY	 Hidden value. Click to show		
REACT_APP_GEOCODER_API_KEY	 Hidden value. Click to show		
REACT_APP_KEYCLOAK_CLIENT	 Hidden value. Click to show		
REACT_APP_KEYCLOAK_REALM	 Hidden value. Click to show		
REACT_APP_KEYCLOAK_URL	 Hidden value. Click to show		
REACT_APP_POWER_BI_GROUP_ID	 Hidden value. Click to show		
REACT_APP_POWER_BI_REPORT_ID_COMPARE	 Hidden value. Click to show		
REACT_APP_POWER_BI_REPORT_ID_INTERNAL	 Hidden value. Click to show		
REACT_APP_POWER_BI_REPORT_ID_PUBLIC	 Hidden value. Click to show		
REACT_APP_POWER_BI_REPORT_ID_SEARCH	 Hidden value. Click to show		
REACT_APP_SNOWPLOW_COLLECTOR	 Hidden value. Click to show		

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](#)