Migrating WebSphere Application to IBM Cloud Private Using Transformation Advisor and Micro Climate

Overview

This document describes how to use the Migration Bundle produced by IBM Transformation Advisor to migrate your WebSphere applications to Liberty running on IBM private Cloud using Micro Climate. There are two of steps in the process, and each need to be completed in turn.

1. **Push the Transformation Advisor Migration Bundle into a Git repository**

   - You upload the Migration Bundle from Transformation Advisor into a git repository. It can be a GitHub or GitLab implementation

2. **Point Micro Climate to this repository to import the project and create the pipeline**

   - From Micro Climate you import the project from that repository and then create a pipeline to automatically build and deploy your application into IBM Cloud Private

Prerequisites

The prerequisites for each Step are listed at the beginning of that Step. The items listed here is the complete set of prerequisites required to run every Step

- The Migration Bundle provided by IBM Transformation Advisor

- An instance of IBM Cloud Private

- An installation of Micro Climate in IBM Cloud Private

- An implementation of Git (GitHub/GitLab) or access to a public implementation (GitHub/GitLab)

  - A user with permissions to create a repository, clone a repository & update a repository in the above implementation

Step 1: Push the Migration Bundle into Git

In this Step you will create a repository, clone it and update it with the contents of the Migration Bundle. Then you will push these changes into the remote repository.

Prerequisites

1. An implementation of Git (GitHub/GitLab) or access to a public implementation (GitHub/GitLab)

2. A user with permissions to create a repository, clone a repository & update a repository in the above implementation

Tasks

1. Log into your Git implementation

2. Create a new repository and initialize it

3. Clone the repository to a local machine

4. Copy the Migration Bundle into the local copy of the repository

5. Explode the Migration Bundle

6. Delete the Migration Bundle zip file

7. Update the server.xml if necessary

   NOTE: All passwords have been replaced with '???'. Enter the correct password now.

   NOTE: If there are any additional binaries listed in this file that you do not need, you should remove any reference to them.

8. Add each new file to the git index

9. Commit the changes

10. Push the commit into the remote repository

11. Go to the repository in your Git implementation and you will see the contents of the Migration Bundle there

Step 2: Configure the Project in Micro Climate and create a Pipeline

In this Step you will Import the Git repository you created in Step 1 as a project into Micro Climate. Then you will create a Pipeline for that project that will create the necessary image and deploy it into IBM Cloud Private.

Prerequisites

1. You have completed Step 1: Push the Migration Bundle into Git

2. An instance of IBM Cloud Private

3. An installation of Micro Climate in IBM Cloud Private

Tasks

1. Go to your Micro Climate portal page

2. Click on "Import Project"

3. Enter the details of the Git repository and click 'Next'

4. Enter the appropriate credential information (if necessary)

5. Click 'Import'

6. After the import is complete click on 'Edit Code'

7. Now click 'Pipeline'

8. Click 'Create Pipeline'

9. Enter the repository location

10. Enter the appropriate credential information (if necessary)

11. Click 'Create Pipeline'

12. When this completes click 'Open Pipeline'

13. Enter the appropriate credentials

14. You will see your project open in a Pipeline

15. Click into 'master'

16. The Pipeline will now run and go through the stages of extracting code, creating images and deploying

17. At the end of the process your application will be deployed into ICP

18. Open you ICP and select 'Workloads > Deployments'

19. You will see your application in the deployment list

20. Click into the container and launch your application!