

Assignment-5: (Azure DevOps Hands-on)

1. Adding a task to configure maven to the release pipeline

The screenshot shows the Azure DevOps web interface. On the left is a sidebar with navigation options: Overview, Boards, Repos, Pipelines, Environments, Releases, Library, Task groups, Deployment groups, Test Plans, and Artifacts. The main area displays the 'PCF_Release_Pipeline' under the 'Tasks' tab. The pipeline is named 'Push to PCF' and is a 'Deployment process'. It contains an 'Agent job' with four tasks: 'Maven pom.xml' (Maven), 'buildAndPush' (Docker), 'Install Cloud Foundry CLI 6.43.0' (Cloud Foundry CLI Install), and 'cf push' (Cloud Foundry CLI). The 'Maven pom.xml' task is selected, and its configuration panel is open on the right. The configuration includes: Task version (3.*), Display name (Maven pom.xml), Maven POM file (a path starting with \$(System.DefaultWorkingDirectory)), Goal(s) (package), Options (empty), JUnit Test Results (Publish to Azure Pipelines checkbox), Code Coverage (Code coverage tool dropdown set to None), and buttons for 'View YAML' and 'Remove'.

2. Adding a task to configure docker to the release pipeline

The screenshot shows the same Azure DevOps interface as the previous one, but now the 'buildAndPush' task is selected. The configuration panel on the right shows: Task version (2.*), Display name (buildAndPush), Container Repository section with 'Container registry' (Docker hub connection) and 'Container repository' (kalithkar/springboot-app), and a 'Commands' section with 'Command' (buildAndPush) and 'Dockerfile' (**/Dockerfile). Buttons for 'View YAML' and 'Remove' are also present.

3. Adding a task to install Cloud Foundry CLI

The screenshot shows the Azure DevOps interface for the 'PCF_Release_Pipeline'. The left sidebar contains navigation links: Overview, Boards, Repos, Pipelines, Environments, Releases, Library, Task groups, Deployment groups, Test Plans, and Artifacts. The main area displays the 'Push to PCF' deployment process with a list of tasks: 'Maven pom.xml', 'buildAndPush', 'Install Cloud Foundry CLI 6.43.0' (selected), and 'cf push'. The right pane shows the configuration for the 'Install Cloud Foundry CLI' task. The 'Task version' is set to '0.*'. The 'Display name' is 'Install Cloud Foundry CLI 6.43.0'. The 'Cloud Foundry Version' is set to '6.43.0'. The 'Control Options' and 'Output Variables' sections are collapsed.

4. Adding a task to configure Cloud Foundry to release pipeline

The screenshot shows the Azure DevOps interface for the 'PCF_Release_Pipeline'. The left sidebar is the same as in the previous screenshot. The main area displays the 'Push to PCF' deployment process with the same list of tasks. The right pane shows the configuration for the 'cf push' task. The 'Task version' is set to '0.*'. The 'Display name' is 'cf push'. The 'Cloud Foundry Endpoint' is set to 'CF Connection' with a 'Manage' link. The 'Command' is set to 'push'. The 'Arguments' field contains the command: 'azure-springbootapp-pcf --docker-image kalithkar/springboot-app:4.5'. The 'Connection Settings', 'Advanced', 'Control Options', and 'Output Variables' sections are collapsed.

5. Successfully ran the release pipeline

The screenshot shows the Azure DevOps interface for a release pipeline named 'PCF_Release_Pipeline' under the 'devops_bootcamp' project. The pipeline is in the 'Release-1' stage, and the 'Push to PCF' task has successfully completed. The 'Agent job' section shows a list of tasks that were executed successfully:

| Task | Status | Duration |
|----------------------------------|-----------|----------|
| Initialize job | succeeded | 2s |
| Download Artifacts | succeeded | 3s |
| Maven pom.xml | succeeded | 2m 42s |
| buildAndPush | succeeded | 45s |
| Install Cloud Foundry CLI 6.43.0 | succeeded | 14s |
| cf push | succeeded | 40s |
| Finalize Job | succeeded | <1s |

6. App is running on Cloud Foundry

The screenshot shows the Pivotal Web Services console. The application 'azure-springbootapp-pcf' is running in the 'development' space. The console displays the following information:

Home > devops-org-rahul

SPACE: development

STATUS: RUNNING (1), STOPPED (0), DOWN (0)

| Status | Name | Instances | Memory | Last Update | Route |
|---------|-------------------------|-----------|--------|-------------|---|
| RUNNING | azure-springbootapp-pcf | 1 | 1 GB | 8 min | https://azure-springbootapp-pcf.c... |

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7. Application routing to mentioned name

The screenshot shows a web browser displaying a congratulatory message on a bright blue background:

Congratulations!!! Welcome to the World of DevOps