



FEBRUARY 4, 2023

DevOps Classroomnotes 04/Feb/2023

Spring Pet Clinic Manual Steps for building and packaging

- Manual steps

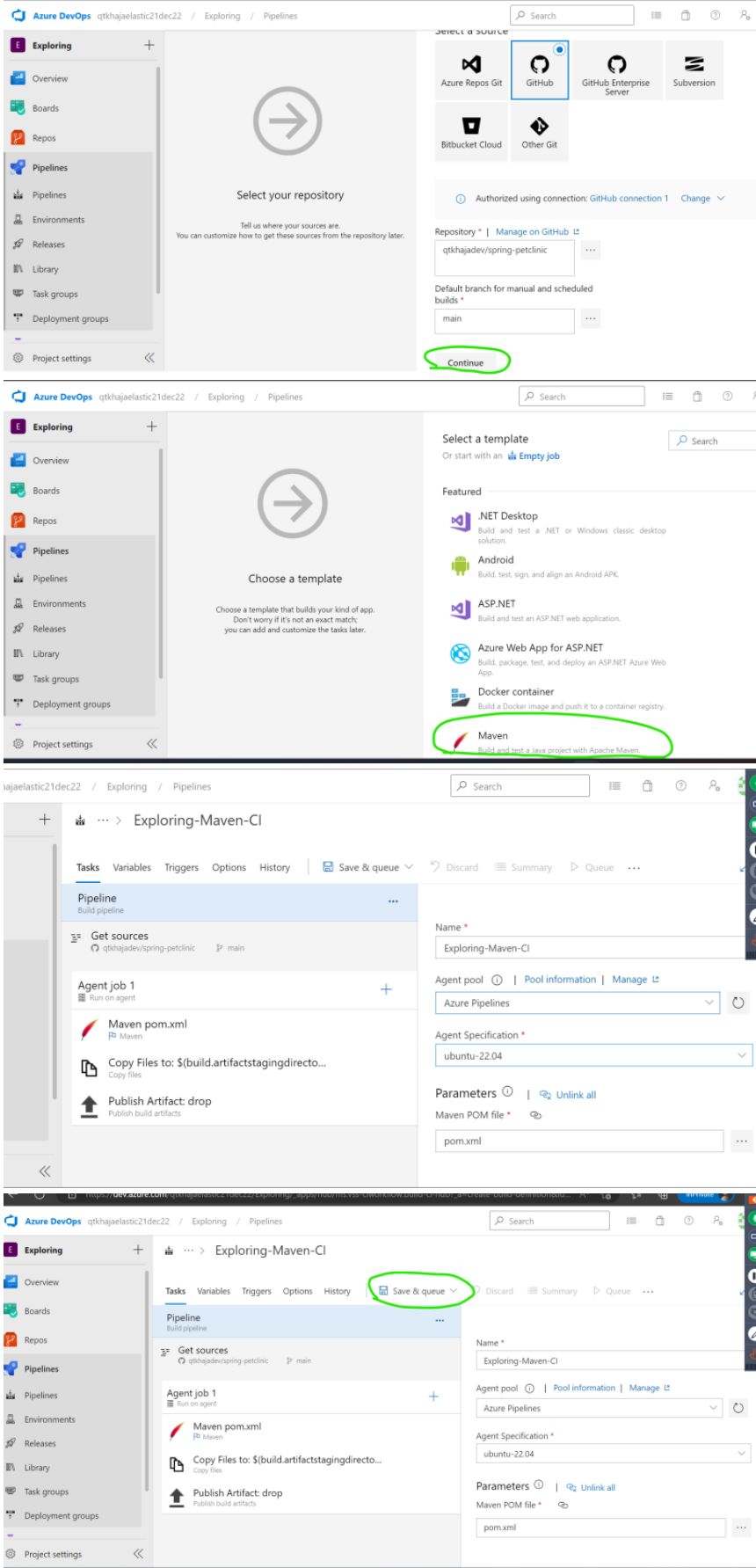
```
sudo apt update
sudo apt install openjdk-17-jdk maven -y
git clone https://github.com/spring-projects/spring-petclinic.git
cd spring-petclinic
mvn package
```

- Whenever any changes are made to the spring pet clinic code we want to repeat the above steps, if it fails the changes done by developer might be wrong, environmental issues should be handled by us.
- Any failure generally will be notified via emails/some alerting mechanism.

Azure DevOps – Pipelines

- Classic Editor:

The screenshot shows the Azure DevOps interface for creating a new pipeline. The left sidebar has the 'Pipelines' option highlighted with a green circle. The main area displays the 'Create your first Pipeline' wizard. The 'Create Pipeline' button is circled in green. Below this, the 'Where is your code?' section lists several repository options: Azure Repos Git, Bitbucket Cloud, GitHub, GitHub Enterprise Server, Other Git, and Subversion. At the bottom, a link 'Use the classic editor to create a pipeline without YAML' is circled in green.



The first screenshot shows the 'Run pipeline' dialog in Azure DevOps. The 'Save and run' button is circled in green. The second screenshot shows the pipeline execution summary for 'Exploring-Maven-CI' with build ID '20230204.1'. The 'Agent job 1' is circled in green.

Run pipeline

Select parameters below and manually run the pipeline

Save comment

Agent pool: Azure Pipelines

Agent Specification: ubuntu-22.04

Branch/tag: main

Commit

☐ Enable system diagnostics

Cancel **Save and run**

Azure DevOps qtkhajaelastic21dec22 / Exploring / Pipelines / Exploring-Maven-CI / 20230204.1

#20230204.1 • Update references to Java version in README

Summary

Manually run by qt khaja

Repository and version: qtkhajadev/spring-petclinic main ca055dbb

Time started and elapsed: Just now

Related: 0 work items

Tests and coverage: 1 consumed

Jobs

Name	Status	Duration
Agent job 1	Queued	

- The error below is about agent not getting allocated.

The screenshot shows the 'Errors' section of the pipeline execution summary. An error message is circled in green: 'No hosted parallelism has been purchased or granted. To request a free parallelism grant, please fill out the following form https://ak...'

Azure DevOps qtkhajaelastic21dec22 / Exploring / Pipelines / Exploring-Maven-CI / 20230204.1

Summary

Manually run by qt khaja

Repository and version: qtkhajadev/spring-petclinic main ca055dbb

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Errors

No hosted parallelism has been purchased or granted. To request a free parallelism grant, please fill out the following form https://ak...

Jobs

Name	Status	Duration
Agent job 1	Queued	

- Now Navigate to Project Setting and Parallel jobs

The screenshot shows the 'Parallel jobs' settings in Azure DevOps. It displays the configuration for private and public projects, including the number of parallel jobs and the option to purchase or request a free grant.

Azure DevOps qtkhajaelastic21dec22 / Exploring / Settings / Parallel jobs

Project Settings

Team configuration

GitHub connections

Pipelines

Agent pools

Parallel jobs

Settings

Test management

Release retention

Service connections

XAML build services

Repos

Repositories

Artifacts

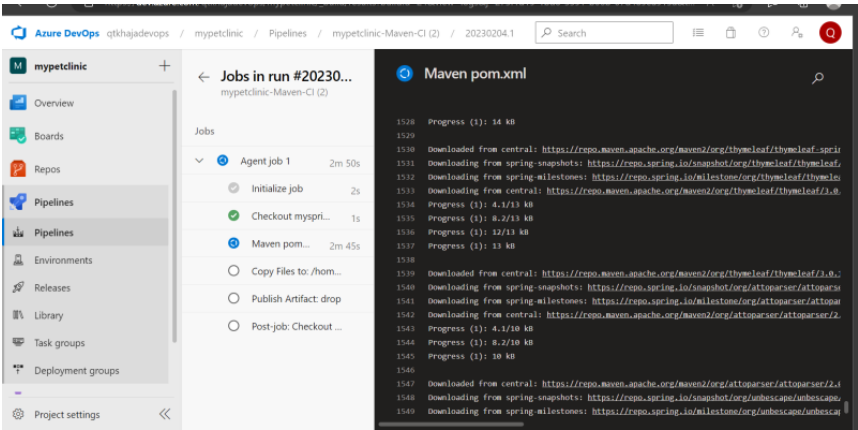
Storage

Private projects

Project	Parallel jobs
Microsoft-hosted	0
Self-hosted	1

Public projects

Project	Parallel jobs
Microsoft-hosted	0
Self-hosted	Unlimited



- Lets try acheiving the same using YAML

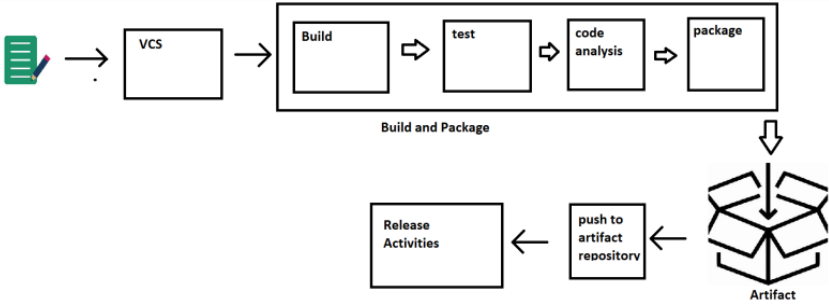
```
---
pool: 'Azure Pipelines'

trigger:
- main

steps:
- task: Maven@3
  inputs:
    mavenPomFile: 'pom.xml'
    goals: 'package'
    jdkVersionOption: '1.17'
```

Azure DevOps Explained

- Continuous Integration Workflow



- CI can be failed due to following reasons
 - compilation failed
 - unit test failed
 - Quality Gate rejected the commit (because of quality issues)
 - Environmental issues.

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