# Building and Testing Code



Christopher Blackden
DEVOPS ENGINEER

@DevByAccident



## Overview



#### **Build the Container**

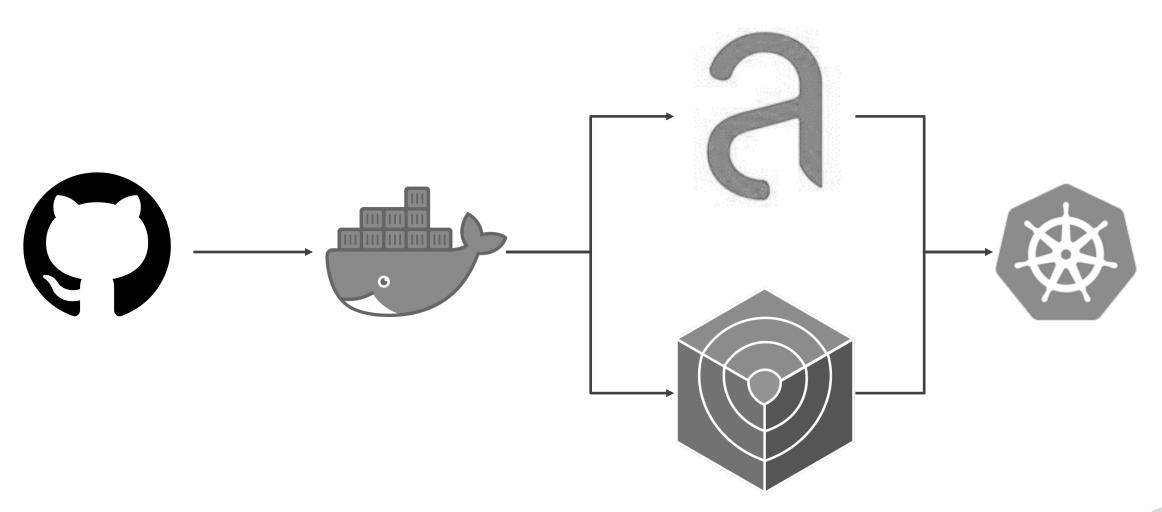
- Running Shell in Pipeline Scripts

#### **Run Unit Tests**

- Multi-Branch Pipelines
- Fail Blocks



# Course Pipeline





Jenkinsfile

```
pipeline {
   agent any
   stages {
      stage('Hello World') {
         steps {
            echo 'Hello World'
```

```
pipeline {
   agent any
   stages {
      stage('Hello World') {
         steps {
            sh(script: 'echo Hello World')
```

**Jenkinsfile** 

```
pipeline {
   agent any
   stages {
      stage('Hello World') {
         steps {
            pwsh(script: 'Write-Output "Hello World"')
```

### Demo

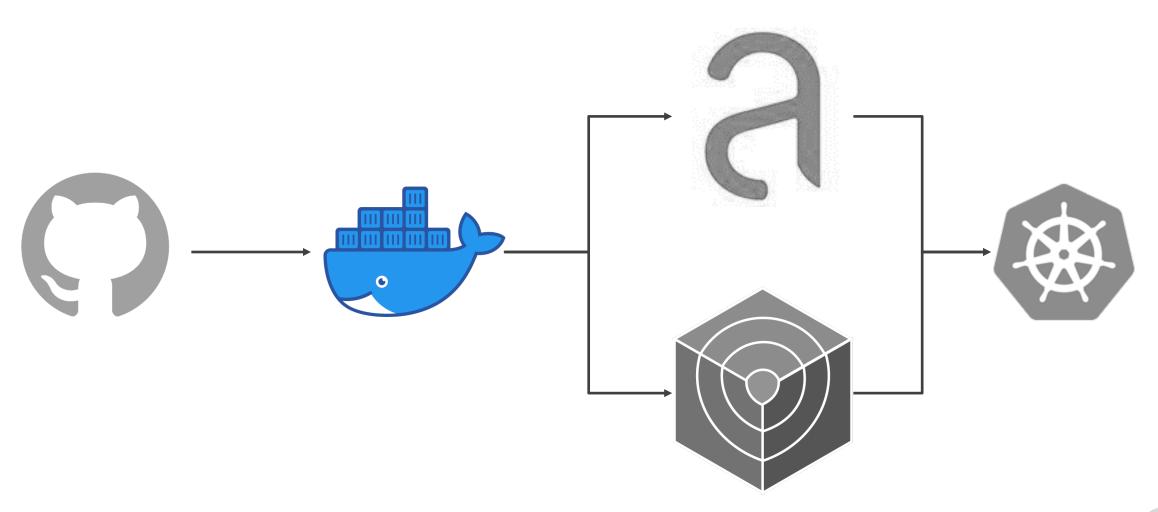


#### **Build the Container**

- Running shell scripts in pipelines

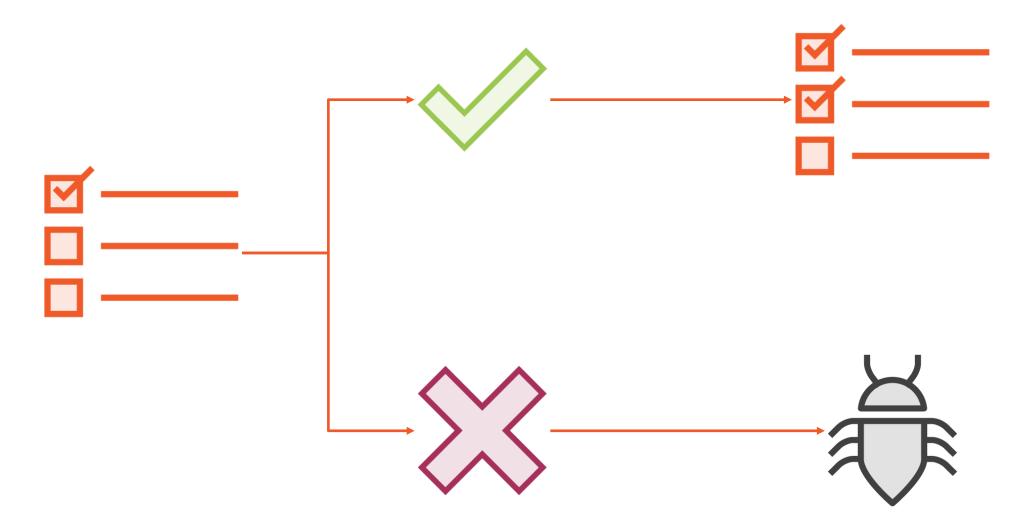


# Course Pipeline

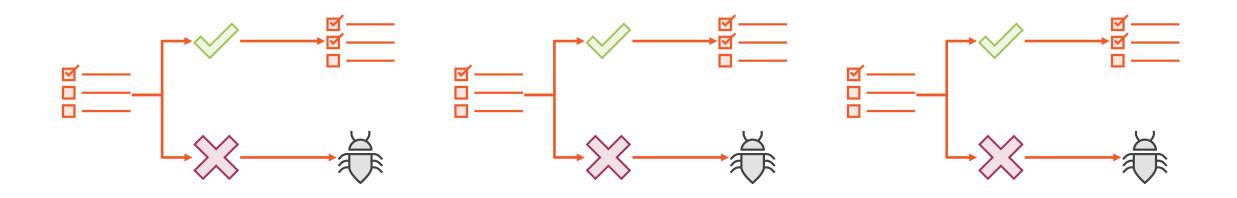




## Unit Test Workflow



### Multi-Branch Unit Test Workflow



master dev feature-n

## Demo



#### **Run Unit Tests**

- Multi-Branch Pipelines
- Failure Blocks

