Lesson 3 of 4

Setup CI CD via Github Actions and Contrast Security

Create Github Developer Token

Create a developer token by navigating to `Top right icon arrow >> Settings >> Developer Settings >> Personal Access Tokens`

**Note – Make sure to store this value locally, as you will need this value when creating the 'DEV_TOKEN' github secret. You will not be able to retrieve this value after the initial view during creation.

Create Github Secrets within repository

Create the following Github Secrets by navigating to `Settings >> Secrets`:

- DEV_TOKEN

  - Value:

    - Stored string from token created in preceding step

- AZURE_CREDS_FILE

  - Value:

    - From instructor

- CONTRAST_CREDS_FILE

  - Value:

    - From instructor

Verify 'new-app` branch

git clone -b new-app https://github.com/admiralappsec/workshop-testing.git

Create a new github actions workflow file

cd workshop-testing

mkdir .github

cd .github

mkdir workflows

cd workflows

touch main.yml

Finish creating the github workflow file

```
name: Build and Deploy Java app to Azure Spring Cloud

on:
 push:
  branches:
   - new-app

# CONFIGURATION
# For help, go to https://github.com/Azure/Actions

# 1. Set up the following secrets in your repository:
#   AZURE_CREDS_FILE
#   CONTRAST_CREDS_FILE
#   DEV_TOKEN

# 2. Change these variables for your configuration:
env:
 JAVA_VERSION: '1.8' # set this to the java version to use
 APPLICATION_NAME: 'springone-petclinic-mark-testing'
 SPRING_CLOUD_SERV_NAME: 'mark-spring-cloud-test'
 DEV_BRANCH: 'new-app-w-github-action'
 ARTIFACT_LOCATION: '/target/*.jar'

jobs:
 build-and-deploy:
  name: Build and Deploy
  runs-on: ubuntu-latest
  steps:
  - name: Checkout
   uses: actions/checkout@v2 #master
  - name: Set up JDK 1.8
   uses: actions/setup-java@v1
   with:
    java-version: ${{ env.JAVA_VERSION }}
  - name: Build with Maven
   run: mvn clean package -DskipTests -Denv=cloud
  - name: Contrast Security Azure Spring Cloud Deployment
   uses: admiralappsec/springone-github-action@main
   id: contrast-deployment
   with:
    application-name: ${{ env.APPLICATION_NAME }}
    spring-cloud-service-name: ${{ env.SPRING_CLOUD_SERV_NAME }}
    application-artifact-location: ${{ env.ARTIFACT_LOCATION }}
    contrast-security-credentials-file: ${{ secrets.CONTRAST_CREDS_FILE }}
    azure-credentials-file: ${{ secrets.AZURE_CREDS_FILE }}
    github-developer-token: ${{ secrets.DEV_TOKEN }}
    github-developer-branch: ${{ env.DEV_BRANCH }}
```