**Goal of this lecture:**

To Build and Push Super Mario Game Docker image to Docker Hub

**Steps involved:**

1) Add a yaml file named "gitops-build-push-supermario-image.yaml"

2) Add the following code to yaml file:

name: "Build and push Super Mario Docker image with static tag to Docker Hub"

on:

push:

branches:

- main

jobs:

build\_push\_supermario\_docker\_image:

runs-on: ubuntu-latest

steps:

- name: Checkout Repository

uses: actions/checkout@v3

- name: Login to Docker Hub

run: echo "${{ secrets.DOCKERHUB\_TOKEN }}" | docker login -u "${{ secrets.DOCKERHUB\_USERNAME }}" --password-stdin

- name: Build and Push Docker Image

run: |

docker build -t docker.io/raghuthesecurityexpert/supermariogitopsproject:1 .

docker push docker.io/raghuthesecurityexpert/supermariogitopsproject:1

3) Create a **token** in Docker Hub and save it for use in Step 4)

4) Create **DOCKERHUB\_TOKEN**,**DOCKERHUB\_USERNAME** secrets as repository secrets.

5) Push the code to remote Github repo.

name: "Build and push Super Mario Docker image with unique tag each time"

on:

push:

branches:

- main

env:

VERSION: $(( $(cat version.txt) + 1 ))

jobs:

build\_push\_new\_docker\_image:

runs-on: ubuntu-latest

needs: sonarqube\_sast\_scan

steps:

- name: Checkout Repository

uses: actions/checkout@v3

- name: Set Git Config

run: |

git config --global user.email "${{ secrets.GIT\_EMAIL}}"

git config --global user.name "${{ secrets.GIT\_USERNAME}}"

- name: Login to Docker Hub

run: echo "${{ secrets.DOCKERHUB\_TOKEN }}" | docker login -u "${{ secrets.DOCKERHUB\_USERNAME }}" --password-stdin

- name: Build and Push Docker Image

run: |

git pull

docker build -t docker.io/asecurityguru/mariomodified:${{ env.VERSION }} .

docker push docker.io/asecurityguru/mariomodified:${{ env.VERSION }}