**Goal of this lecture:**

To deploy the supermario docker image to Azure Kubernetes Service using ArgoCd. This will demonstrate the Pull based mechanism of GitOps practices.

**Steps involved:**

1. Create an application in ArgoCd and connect this application with GitHub Repo. Once connected, we need to ensure Auto Sync is enabled in ArgoCd.
2. Add a **deployment.yaml** file at the root of GitHub Repo.

apiVersion: apps/v1

kind: Deployment

metadata:

name: supermariogame-deployment

spec:

replicas: 1

selector:

matchLabels:

app: supermariogame

template:

metadata:

labels:

app: supermariogame

spec:

containers:

- image: raghuthesecurityexpert/supermariogitopsproject:2

name: supermariogame-container

ports:

- containerPort: 8080

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apiVersion: v1

kind: Service

metadata:

name: supermariogame-service

spec:

selector:

app: supermariogame

ports:

- protocol: TCP

port: 8600 # <-- Change this line to your desired port

targetPort: 8080

type: LoadBalancer

1. Push your changes to remote GitHub Repo.
2. Wait for atleast 3 minutes as ArgoCd default refresh interval is set to **3 minutes.**
3. Verify that supermario docker image is deployed on Azure Kubernetes Service after **3-4 minutes**.