

AKS CI/CD Workflow Using GitHub Actions

Prerequisites

1. GitHub Account

Click [GitHub](#) for AKS CI/CD Workflow.

Steps:

1. Create a GitHub repository.
 2. Add your project files and folders to the repository.
 3. Create `.github` folder in project directory.
 4. Inside it, create a `/workflows` folder.
 5. Create `aks-ci-cd.yml` file and store it in above-created `.github/workflows` directory.
 6. Define the **name** and following map of **env** variables:
 - ACR_LOGIN_SERVER
 - ACR_NAMESPACE
 - ACR_REPOSITORY_NAME
 - ACR_IMAGE_TAG
 - RESOURCE_GROUP_NAME
 - AKS_CLUSTER_NAME
 7. Define the **on** to set which events can cause the workflow to run.
 8. Define the following **actions** to build & push i.e **Continuous Integration (CI)**:
 - Checkout the repo
 - actions/checkout@v4
 - Login to ACR
 - azure/docker-login@v2
 - Build and push the image
 - docker/build-push-action@v5
 9. Define the following **actions** to deploy the pod i.e **Continuous Deployment (CD)**:
 - Azure login
 - azure/login@v2
 - Set context to AKS cluster
 - azure/aks-set-context@v4
 - Create k8s secret
 - azure/k8s-create-secret@v4
 - Deploy to AKS cluster
 - azure/k8s-deploy@v5
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