SQL Server DevOps

SQL Saturday Richmond – 2024

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Agenda

- ▶ Org Setup
- ▶ Project Setup
- ▶ Service Connection
- ▶ Build Pipeline Construction
- ▶ Release Pipeline Construction
- ▶ Live Demo of SQL DB Project Schema change

DevOps Organization

- Established at Account Creation
- New Organization

Project Setup

- Go to Organization Settings
- General, Projects
- + New Project

Service Connection

- Is the Link between your Project and your Azure Resources
  - WebApps
  - SQl Databases
- Create Service Connection
  - Azure Resource Manager
  - Workload Identity federation
  - Pick your subscription
  - Pick a Resource Group

Create Build Pipeline

- Follow Syllabus at
  - https://github.com/gwalkey/Azure-SQL-DevOps
- Create Agent Job with 3 Tasks
  - Visual Studio Build
  - Copy Files
  - Publish Build Artifacts

Create Release Pipeline

- Add Artifact from Build Pipeline – "the Hookup"
- Edit Agent Job
  - Add Azure SQL Database Deployment task
  - Setup optional Keyvault for SQL admin username/passwords
  - Setup SQLPackage.EXE options
- Enable CI/CD Trigger
- Add optional Approvals and Notifications

Notes

▶ This build pipeline example uses the "Classic Editor" not YAML

▶ YAML requires a get-provider repo type, VSTS/TFS not suppoted

▶ You can trigger a build by editing the repo files directly

▶ You *CAN* use DevOps pipelines to deploy to on-prem servers with local agents