



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 supported
- ▶ 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