

About Me (Peter L.)

- Peter Linders
- Freelancer > 30 years
- Current: Sr. Cloud Infrastructure engineer @ Ingram Micro Belux

What will be covered



SOURCE
CONTROL



PROJECT
MANAGEMENT



VALIDATION
(PRE-FLIGHT)



DEPLOYMENT
OPTIMIZATION



Q & A

The traditional way...

Source / Version Control - Manually

- A deployment script (PowerShell, ARM Template, TerraForm,...) or web app probably comes with different versions before it is “ready”
- You can treat it like “SharePoint” files, using v0.1, v0.5, v1.0
- You can store it in a “shared” location like OneDrive, DropBox, GitHub, or email it around

Project Management - **Manually**

- Allocate project members
- Use any collaboration tool (Outlook, Teams, Slack, MS ToDo...)
- Switch to a “real” tool like MS Project
- Create Project Tasks + do (manual) follow up
- Script / Update Deployment tasks are also done manually

Code Validation (Pre-flight) - Manually

- PowerShell, ARM Template, TerraForm,... **What-if**
- Right Click / Publish from development environment to Azure Dev/Test environment
- Multiple tests = multiple test environments
- Challenging to deal with continuous changes

Deployment - Manually

- PowerShell, ARM Template, TerraForm,...
- Right Click / Publish from development environment to Azure Q&A, Staging or Production environment
- You need to validate after the deployment if it actually got deployed successfully
- If the backend fails (e.g. Azure Policies, cloud down,...) it won't detect it during the deployment

Let's optimize with DevOps...

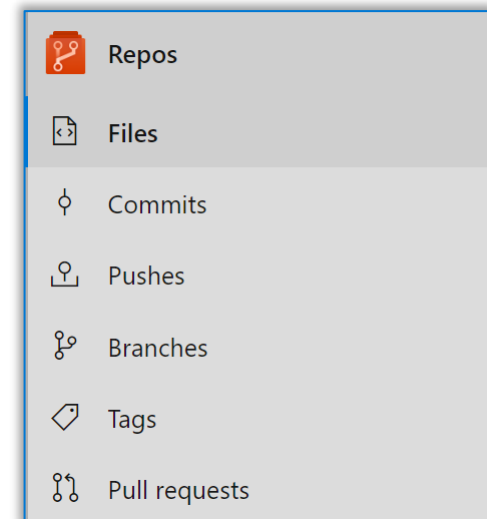
About Me (Peter D.)

- Peter De Tender
- Azure Business Program Mgr |
Azure Technical Trainer - @ Microsoft
- Former Azure MVP (5y)
- Technical Writer & Book publisher



Source / Version Control – DevOps Optimized

- **Azure DevOps Repos** is by itself a GIT compatible source control system
- Integrate with “any” GIT compatible source control version (GitLab, BitBucket, GitHub,...)
- Commit changes, Branching, Pull Requests,...



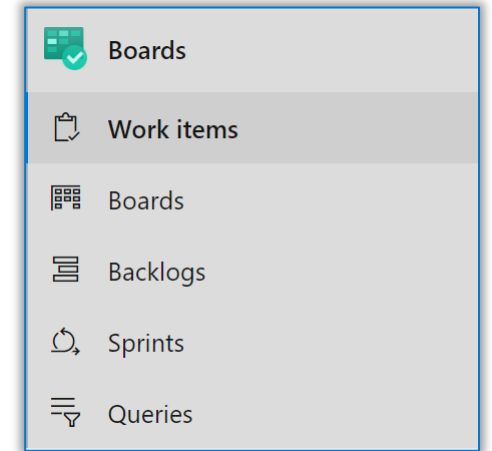


Demo

Source / Version Control – DevOps
Optimized

Project Management – DevOps Optimized

- **Azure DevOps Boards** (Scrum, Agile, Basic,...) Proj Mgmt
- DevOps Project Members are Azure AD or guest users
- Create and follow-up on different “*work items*”
- Integrate work items with deployment (initiate, update, close)



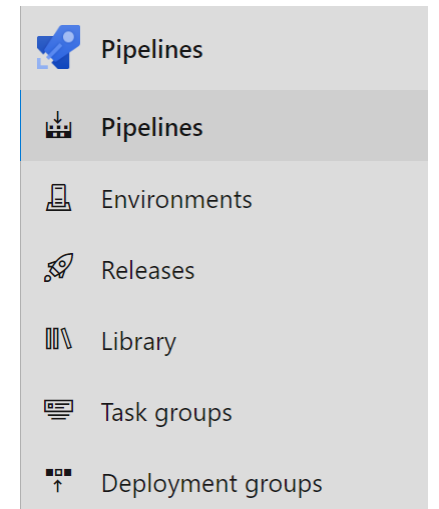


Demo

Project Management – DevOps
Optimized

Code Validation (Pre-flight) – DevOps Optimized

- **Azure DevOps Pipelines** (Build) allows for testing and validation of your source code, before it gets deployed
- Hosted or Custom Build Agents (also on-prem) running Linux, MacOS and Windows
- FREE (Public Projects), build queue
- Extend with functional testing, code scanning,...



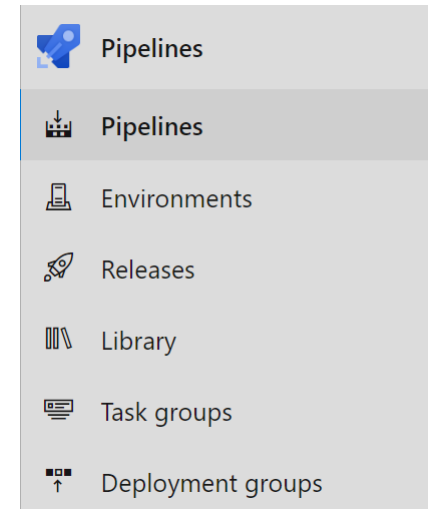


Demo

Code Validation – DevOps Optimized

Deployment (Release) – DevOps Optimized

- **Azure DevOps Pipelines** (Release) starts from the Build Artifact, and runs the actual deployment
- Service Connection to integrate with “any” platform (Azure, VMware, AWS,...)
- Easy deployment across different stages (Dev/Test, Q&A, Production,...)
- Azure Pipelines “Release Gates” bring intelligence





Demo

Code Validation – DevOps Optimized

This is where I would like another 40 hours...

- Tip from the speaker: **Please ask for more DevOps topics by Peter D. In future MC2MC events, so I can show you more and lots more ;)**
- **(but don't tell the MC2MC board I asked for it)**

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Thank you

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