



PowerShell Conference Europe

Manage and automate Azure DevOps through PowerShell

Daniel Silva

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Daniel Silva

- DevOps engineer focused on helping teams become more agile and autonomous, while also ensuring that everything is rolling smoothly.
- Love automation, so I'm constantly trying to automate processes that are boring, time consuming, or error prone.
- Advocate frameworks and technology such as PowerShell, Terraform, Docker and Kubernetes.

Get-Agenda

- Quick intro to what is Azure DevOps
- Keywords/Concepts
- VSTeam & native API calls
- Demos:
 - Install and setup VSTeam Module
 - Add/Update/Delete workitems
 - Add sprints
 - Create Pull Requests
 - Remove Pipeline agents

Get-Help AzureDevOps

- Microsoft's « all-in-one » product for teams' workflows. For this presentation we will focus on 3 components.
According to the documentation:
 - **Azure Boards** delivers a suite of Agile tools to support planning and tracking work, code defects, and issues using Kanban and Scrum methods.
 - **Azure Repos** provides Git repositories or Team Foundation Version Control (TFVC) for source control of your code
 - **Azure Pipelines** provides build and release services to support continuous integration and delivery of your applications.

Source: <https://docs.microsoft.com/en-us/azure/devops/user-guide/what-is-azure-devops?view=azure-devops>



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Get-Help Keywords/Concepts

- PAT – Personal Access Token
- Organization – Top level on DevOps hierarchy structure
- Project – 1 organization can have multiple projects.
- Team – 1 project can have multiple teams.
- Agent – Component where a pipeline job executes.
Can be a VM, a container, a PC, etc.
- Workitem – A task, a UserStory, an Issue, so on.

Demos

We love Demos!



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Q&A

15 minutes



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