



devops



#DOH19

Organizer & sponsors



Build and release in code with Azure Devops Pipelines



Ricci Gian Maria
Alkampfer@Nablasoft.com
@alkampfer

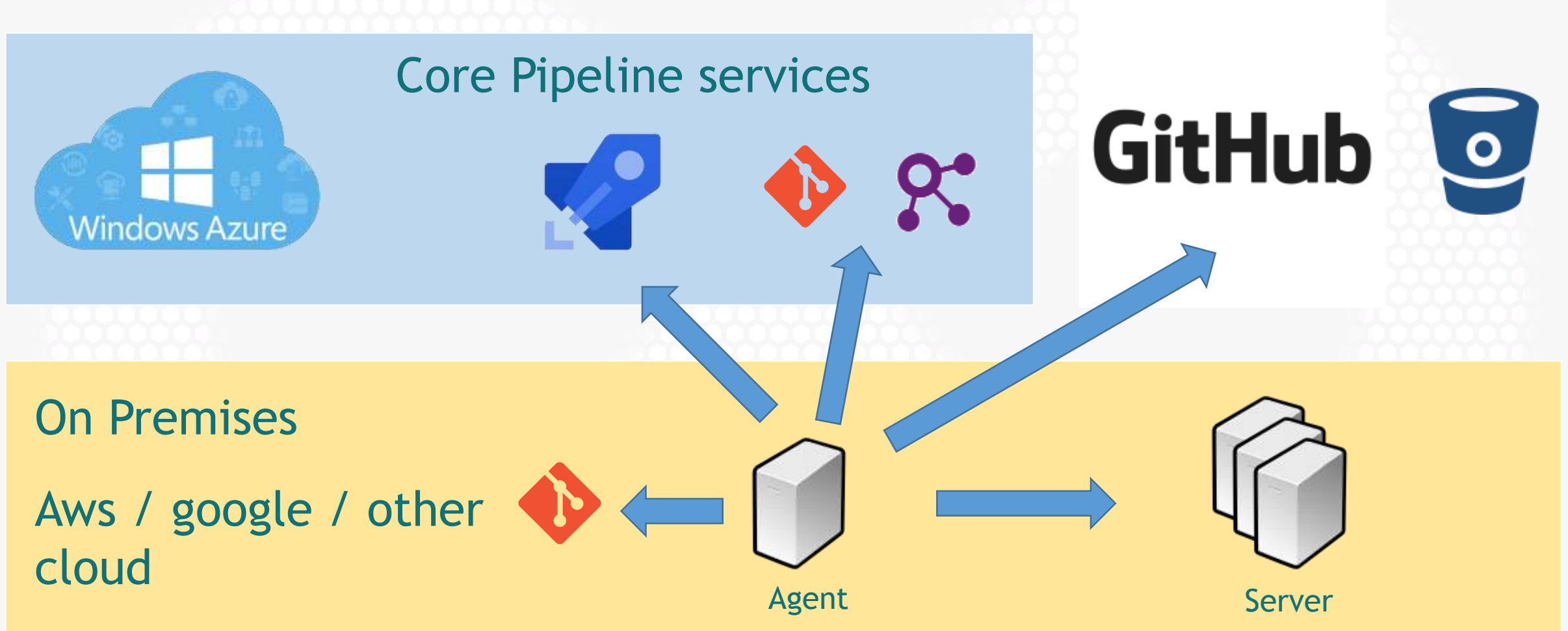


Azure Pipelines

Misconception #1 - Everything runs on azure



Misconception #1 - Everything runs on azure



Misconception #2 - only for the cloud

- Azure DevOps server runs on azure
- Everything else can be on-premise
 - Agents
 - Source control
 - Deploy target
 - Third party system
 - Etc.

Misconception #3 - only for Microsoft stuff

- Runs on Mac and Linux
- Java, Python, C++, .NET, Angular, and more
- Deploy on azure / other cloud / on-premise
- Integrate with other:
 - Source control
 - CI / CD technologies
 - Extensible with addin and a full marketplace

Misconception #4 - Complex to maintain

- Hosted agents managed by MS
- On-Premise agent experience:
 - Unzip and config
 - Auto Update
 - Automatic Maintenance
- Centralized control
- Centralized security

Little bit of history

- 2005: TFS CI === MsBuild
- 2010: TFS CI === Workflow Foundation (complex and difficult to use)
- 2015: TFS / Azure DevOps CI === Web Editor, Task based
- 2018: TFS / Azure DevOps CI === YAML file in source control.

Back to the basic

Demo: Graphical Build



Why YAML: Everything in source control



Base CI



Code Quality CI



Release Package

Why YAML: Easy to copy definitions between repos



Base CI



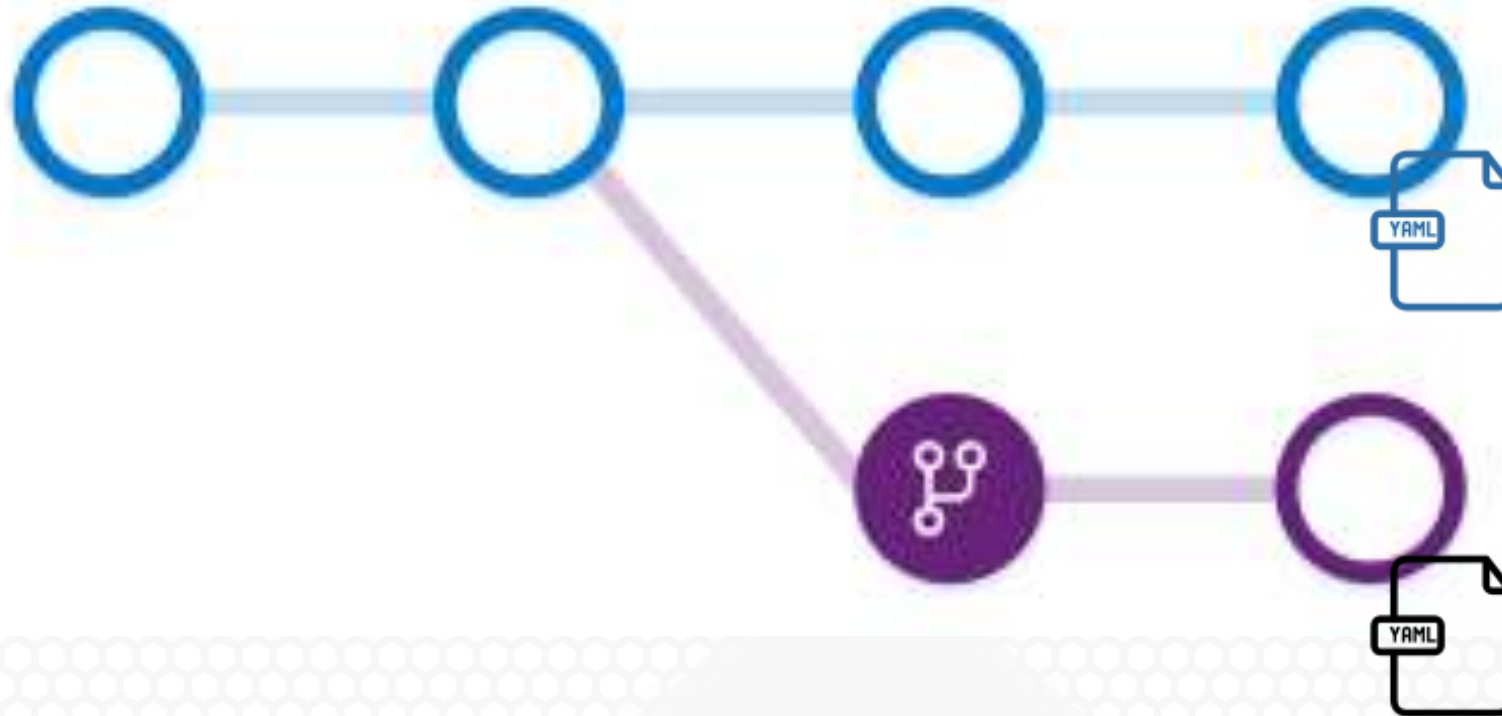
Code Quality CI



Release Package



Why YAML: Follow branches



Why YAML: Base Template definition

Repository of Base
YAML Templates

Project
Repo

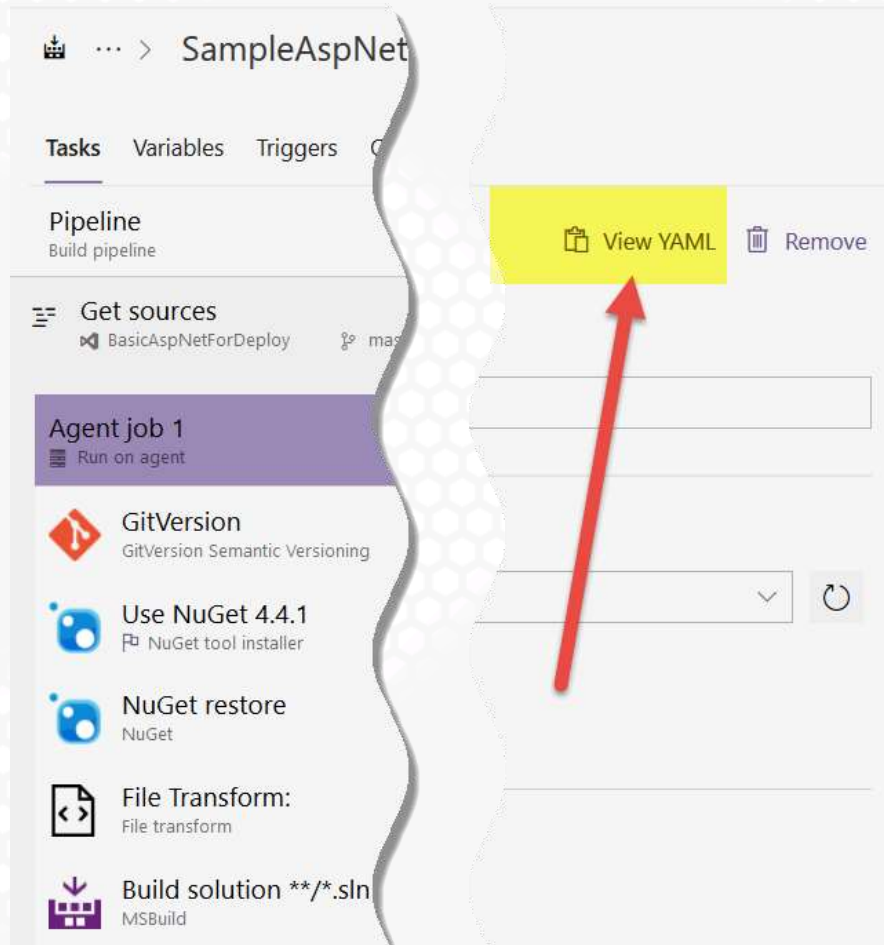


Why YAML: Visual Studio Code Addin



Intellisense
Validation
Task List

Why YAML: Easy convert from existing Pipelines



Demo: Migration to YAML



Future

- Multi-stage pipeline
- Release on environment with YAML
- https://dev.azure.com/mseng/AzureDevOpsRoadmap/_workitems/recentlyupdated

Demo: Multistage



GitHub Actions



alkampfergit / AzureDevopsWordPlayground

<> Code ! Issues 0 🔄 Pull requests 0 ▶ Actions 📁 Projects 0

✅ builds/ci.yaml
actions 👤 0c43fc7

CI
on: push

✅ Build

CI / Build
successful on Sep 6 in 6s

- ▶ ✅ Set up job
- ▶ ✅ Run actions/checkout@v1
- ▶ ✅ Run a one-line script
- ▶ ✅ Run a multi-line script
- ▶ ✅ Complete job

Demo: GitHub actions

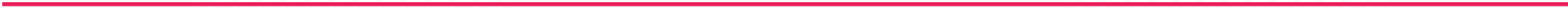


@devops

HEROES



#DOH19







ddevops

THANK YOU!



#DOH19