

# [WRO] #6 Workshop Microsoft Azure User Group Poland we Wrocławiu

Michał Jankowski / Piotr Rogala / Jakub Podoba



**jankowski|michal.pl**



Microsoft Azure  
User Group Poland



justcloud.pl

**jankowski**michal.pl

# Organizatorzy



## Piotr Rogala

☁️ MVP Microsoft Azure Cloud & 🏗️ Azure Cloud Architect



## Michał Jankowski

Microsoft MVP Azure | PhD  
| Low Code Technical Practice Leader Technical Architect



## Jakub Podoba

Senior Microsoft Azure DevOps, CoE Critical Services



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@jpodoba1

# Workshops / Meetups

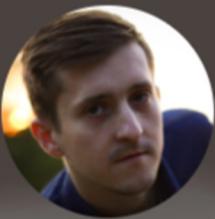
- 03.03.2020 – AzureDay
- 05.03.2020 - Microsoft 365 User Group PL Wrocław #2
- 27.03.2020 – WROC#
- Wrocław Meetups/Workshops w Marcu przerwa
- 25.04.2020 – Global Azure – info wkrótce

# Darmowe warsztaty Azure!

Jesteś zainteresowany warsztatami o Microsoft Azure?

Jeśli tak to zapisz się do listy mailingowej, aby dostać powiadomienie o nadchodzących warsztatach.

Prowadzący:



**Piotr Rogala**

Nordcloud

▪ MVP Microsoft Azure  
Cloud & Azure Cloud  
Architect at Nordcloud



**Michał Jankowski**

Objectivity

Microsoft MVP Azure |  
PhD | Low Code  
Technical Practice  
Leader Technical  
Architect at Objectivity



**Jakub Podoba**

SoftServe

Senior Microsoft Azure  
DevOps, CoE Critical  
Services





<https://www.facebook.com/groups/m365ugpl/>



[https://www.meetup.com/pl-PL/  
Microsoft-365-User-Group-Poland/](https://www.meetup.com/pl-PL/Microsoft-365-User-Group-Poland/)

## Microsoft 365 User Group Poland

### Microsoft 365 User Group PL Wrocław #2

**5 marzec 2020 r.**

T-Systems Polska, ul. Św. Antoniego 7

**START 17:30** Intro, networking

18:00 - 19:00 „**Moja kopia zapasowa leży w koszu**”

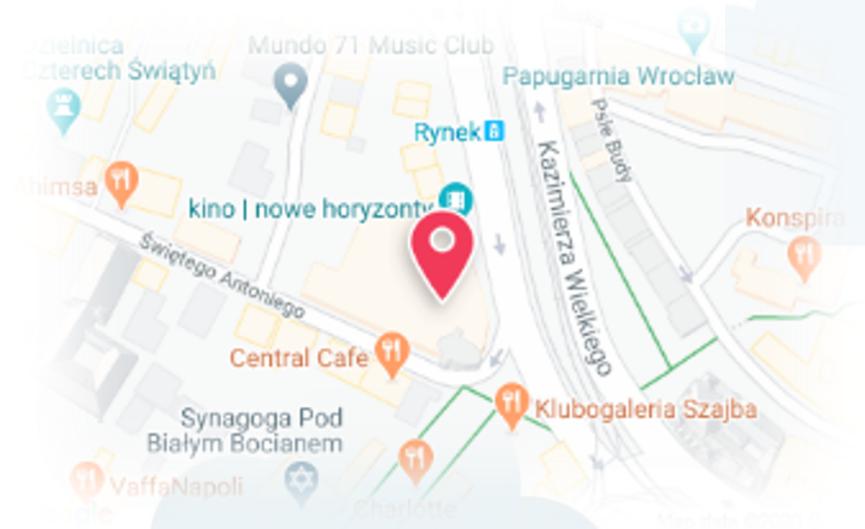
**czyli o kopia zapasowej w Office 365**

19:00 - 19:15 Przerwa, networking

19:15 - 20:15 „**Zamek i fosa**” czy „**totalny brak zaufania**”

**- jak podejść do tematu cyberbezpieczeństwa w organizacji i czy Microsoft 365 może nam w tym pomóc?**

20:15 - 21:00 Networking, wolne tematy





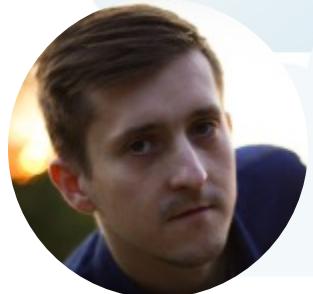
# WROC# IS COMING

27 March 2020



powered by  
 Objectivity

# Prowadzący



Piotr Rogala

☁️ MVP Microsoft Azure  
Cloud & 🚧 Azure Cloud  
Architect



Jakub Podoba

Senior Microsoft Azure  
DevOps, CoE Critical  
Services

 Nordcloud

 softserve



Azure Workshop Wrocław #6  
Azure DevOps



**http://notes.azureguru.pl**

WINS

- Design:
- wanted component
  - good interface
  - in many situations

Development:

- easy to maintain
- we have to pay attention

# Introducing Azure DevOps



## Azure Boards

Deliver value to your users faster using proven agile tools to plan, track, and discuss work across your teams.



## Azure Test Plans

Test and ship with confidence using manual and exploratory testing tools.



## Azure Pipelines

Build, test, and deploy with CI/CD that works with any language, platform, and cloud. Connect to GitHub or any other Git provider and deploy continuously.



## Azure Artifacts

Create, host, and share packages with your team, and add artifacts to your CI/CD pipelines with a single click.



## Azure Repos

Get unlimited, cloud-hosted private Git repos and collaborate to build better code with pull requests and advanced file management.

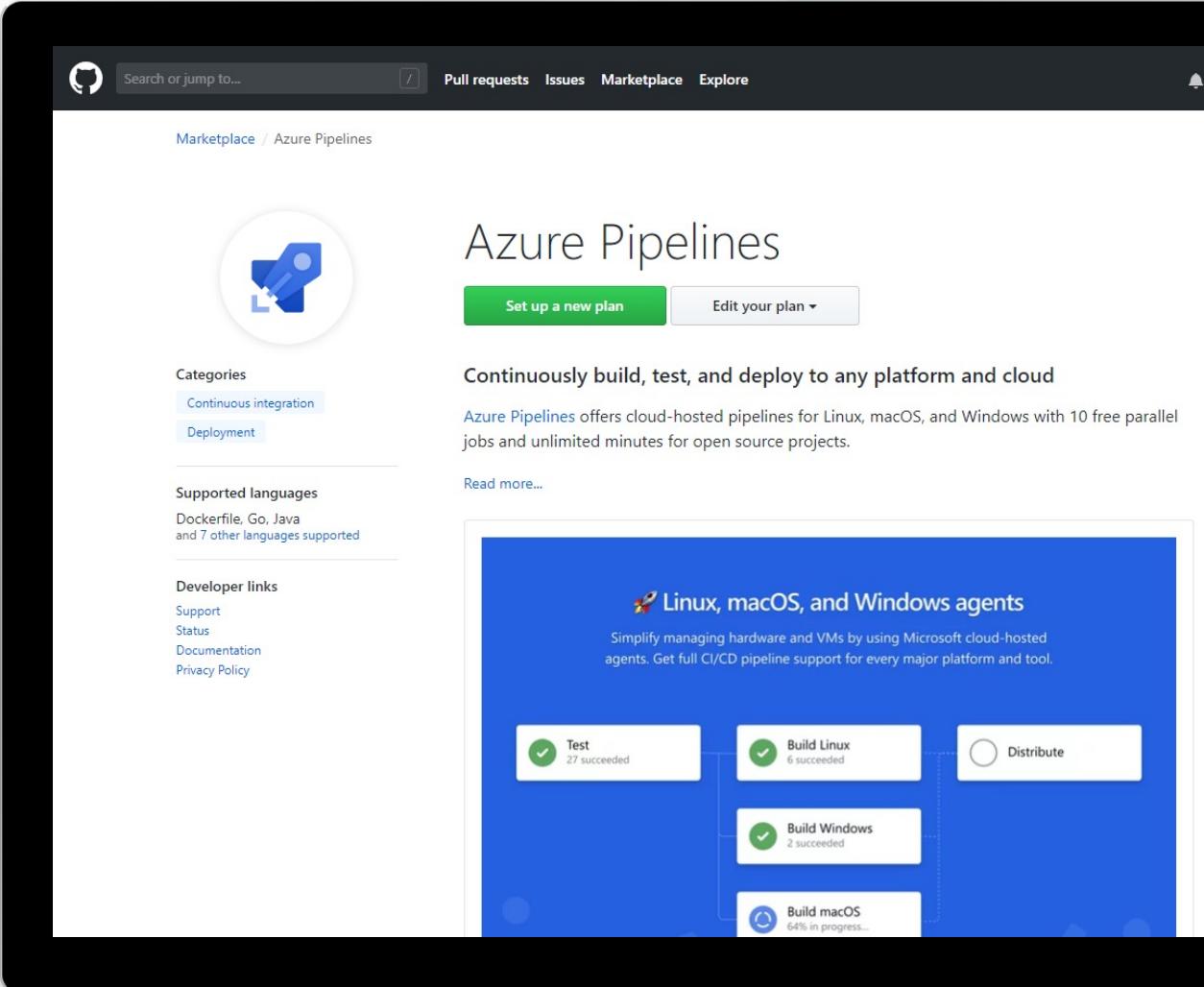


<https://azure.com/devops>



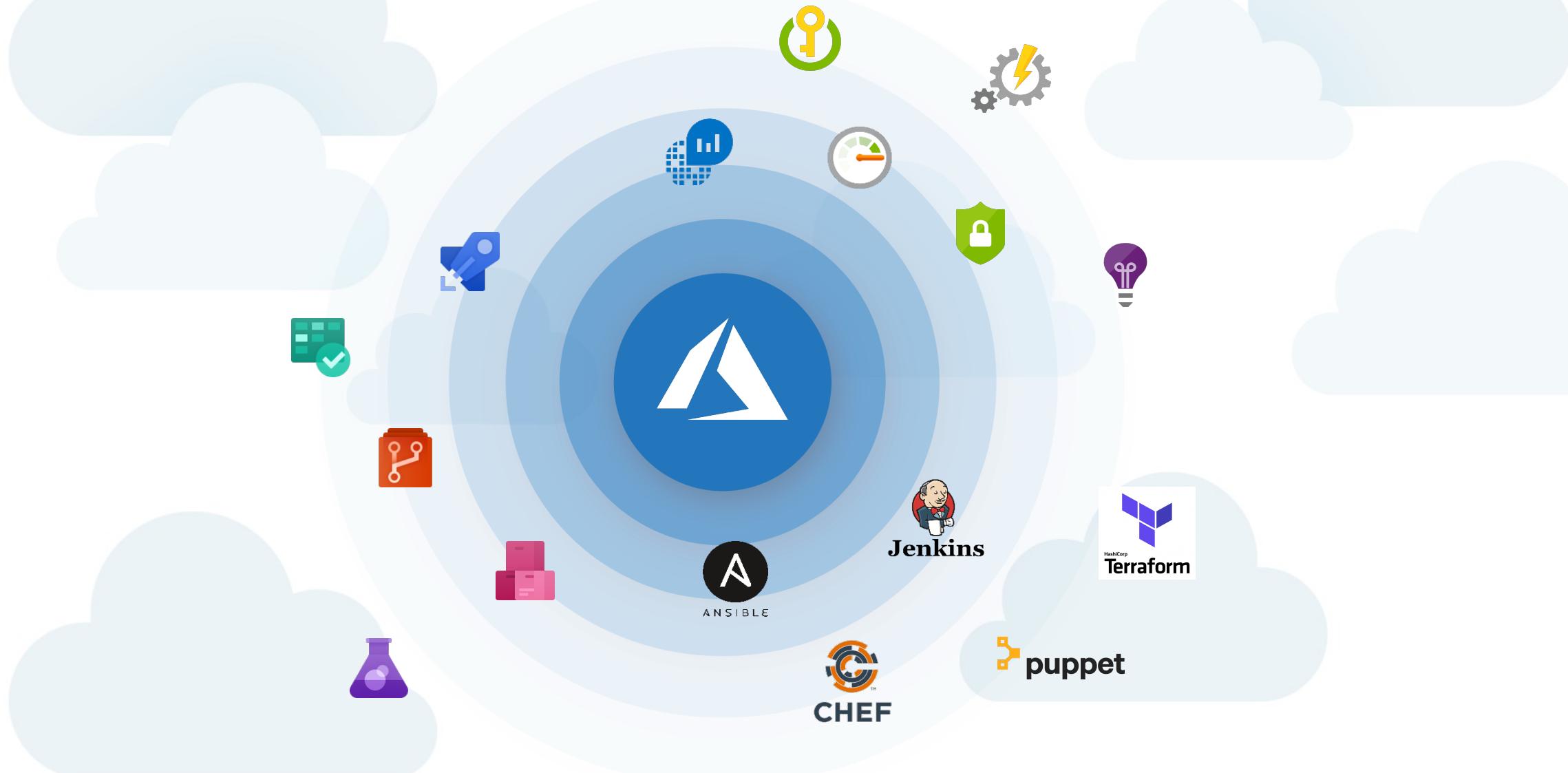
# Integrated with GitHub

Azure Pipelines available now to  
any developer from the GitHub  
Marketplace



The screenshot shows the GitHub Marketplace page for Azure Pipelines. At the top, there's a navigation bar with links for Pull requests, Issues, Marketplace, and Explore. Below the header, the page title is "Marketplace / Azure Pipelines". A large green button says "Set up a new plan" and a smaller button says "Edit your plan ▾". The main content area features a section titled "Azure Pipelines" with the subtext "Continuously build, test, and deploy to any platform and cloud". It highlights "Azure Pipelines offers cloud-hosted pipelines for Linux, macOS, and Windows with 10 free parallel jobs and unlimited minutes for open source projects." There's also a "Read more..." link. A large blue box below shows a pipeline diagram with stages: "Test" (27 succeeded), "Build Linux" (6 succeeded), "Build Windows" (2 succeeded), and "Build macOS" (64% in progress). The pipeline is labeled "Linux, macOS, and Windows agents" and "Simplify managing hardware and VMs by using Microsoft cloud-hosted agents. Get full CI/CD pipeline support for every major platform and tool."

# Broadening the Azure Ecosystem



# Infrastructure and Configuration as Code

## Azure Resource Manager, Automation & 3<sup>rd</sup> Party Integrations

→ Infrastructure as Code,  
built-in

→ Azure Config & Automation

→ Support for 3<sup>rd</sup> party and OSS  
tooling such as Terraform,  
Ansible, Chef, Puppet &  
SaltStack



TERRAFORM



ANSIBLE



CHEF



puppet



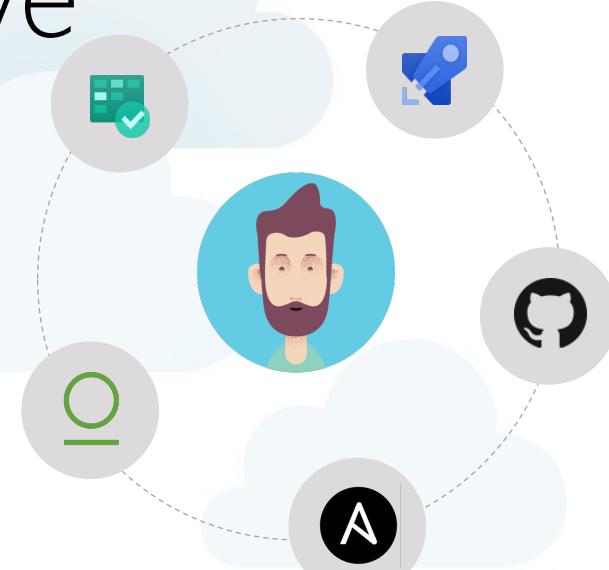
SALTSTACK

The screenshot shows the Microsoft Azure portal interface. On the left, the 'Resource groups' sidebar lists several groups, with 'AustraliaSEProduction' selected. The main content area displays the 'Automation script' blade for this group. The blade includes sections for Overview, Activity log, Access control (IAM), Tags, Settings, Quickstart, Resource costs, Deployments, Policies, Properties, Locks, and Automation script (which is currently selected). On the right, a large preview pane shows the JSON template for the automation script. The template defines a deployment schema with parameters, variables, and resources, specifically for DNS zones.

```
$schema: "https://schema.management.azure.com/schemas/2015-01-01/deploymentTemplate.json#"
contentVersion: "1.0.0.0"
parameters:
  "dnszones_onazure.io_name": {
    "defaultValue": "onazure.io",
    "type": "String"
  },
  "NS_@_name": {
    "defaultValue": "@",
    "type": "String"
  },
  "SOA_@_name": {
    "defaultValue": "@",
    "type": "String"
  },
  "A_vote_name": {
    "defaultValue": "vote",
    "type": "String"
  },
  "A_draft_name": {
    "defaultValue": "draft",
    "type": "String"
  },
  "A_devops_name": {
    "defaultValue": "devops",
    "type": "String"
  },
  "A_*_draft_name": {
    "defaultValue": "*.draft",
    "type": "String"
  }
}
variables:
resources:
  [parameters('dnszones_onazure.io_name'), concat(parameters('dnszones_on...', 'NS_@_name')), concat(parameters('dnszones_on...', 'SOA_@_name')), concat(parameters('dnszones_on...', 'A_vote_name')), concat(parameters('dnszones_on...', 'A_draft_name')), concat(parameters('dnszones_on...', 'A_devops_name')), concat(parameters('dnszones_on...', 'A_*_draft_name'))]
```

# Azure DevOps: Choose the tools and clouds you love

Azure DevOps lets developers choose the tools that are right for them



Mix and match to create workflows with tools from Microsoft, open source or your favorite 3rd party tools

Target any cloud, on-prem or both and deploy to the servers you need



# DevOps at Microsoft

Azure DevOps is the toolchain of choice for Microsoft engineering with over 90,000 internal users

→ <https://aka.ms/DevOpsAtMicrosoft>

**372k**

Pull Requests per month

**4.4m**

Builds per month

**5m**

Work items viewed per day

**2m**

Git commits per month

**500m**

Test executions per day

**500k**

Work items updated per day

**78,000**

Deployments per day

Data: Internal Microsoft engineering system activity, August 2018

# HOL: Kontrola wersji przy pomocy Git, Visual Studio Code i Azure Repo

Jakub Podoba

# Azure Repos

Free private Git repositories, pull requests, and code search



## Support for any Git client

Securely connect with and push code into your Git repos from any IDE, editor, or Git client.



## Web hooks and API integration

Add validations and extensions from the marketplace or build your own using web hooks and REST APIs.



## Semantic code search

Quickly find what you're looking for with code-aware search that understands classes and variables.



<https://azure.com/devops>

The screenshot shows the Azure DevOps interface for the AdventureWorks Mobile project. The left sidebar includes links for Overview, Boards, Repos (which is selected), Files, Commits, Pushes, Branches, Tags, Pipelines, Test Plans, and Artifacts. The main content area is titled 'Pull requests' and displays a list of recent activity. The first item is 'Initialize client with .client.init' by Celeste Burton, requested #238 into master, posted 3 minutes ago. The second item is 'Use latest React version' by Celeste Burton, requested #230 into features/react-update, posted 1 hour ago. The third item is 'Check returned identity for null status' by Colin Ballinger, requested #212 into master, posted 15 minutes ago. The fourth item is '[WIP] Add tests for reticulating splines' by Robin Counts, requested #221 into master, posted 4 hours ago. The fifth item is 'Add exception mappings for disconnect' by Colin Ballinger, requested #249 into master, posted 15 minutes ago. The sixth item is 'Maintain folder structure when converting isomorphs' by Robin Counts, requested #234 into master, posted 1 hour ago. The seventh item is 'Testing configuration settings' by Robin Counts, requested #239 into master, posted 3 hours ago. The eighth item is 'Hotfix payload to Orion' by Robin Counts, requested #201 into releases/orion, posted 5 hours ago. A 'New Pull Request' button is located in the top right corner of the main area.

# HOL: Kontrola wersji przy pomocy Git, Visual Studio Code i Azure Repo

- <https://azuredevopslabs.com/labs/azuredevops/github/>

# HOL: Tworzenie i praca z Pull Requests w Azure Repos

Jakub Podoba

# Azure Repos – Pull Requests

Kick off your next build from a Repos pull request



## Collaborate to build better code

Perform more effective Git code reviews with threaded discussion and continuous integration for each change. Use forks to promote collaboration with inner source workflows.



## Automate with built-in CI/CD

Set up continuous integration/continuous delivery (CI/CD) to automatically trigger builds, tests, and deployments with every completed pull request using Azure Pipelines or your tools.



## Protect your code quality with branch policies

Keep code quality high by requiring code reviewer signoff, successful builds, and passing tests before pull requests can be merged. Customize your branch policies to maintain your team's high standards.



<https://azure.com/devops>

```
251  export interface SaveInfoBannerProps {  
252      saveInfo: SaveInfo;  
253      versionSpec: VersionSpec;  
254  interface CommitLinkProps {  
255      url: string;  
256      text: string; 2 import ReactDOM from 'react';  
257      tooltip: string; 3 import App from './App';  
258      prefixMessage: string; 257}; 258  
259  } 259  
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1000  259
```

The screenshot displays the Azure DevOps interface. At the top, a pull request is shown with code snippets and annotations. Below it, a CI/CD pipeline is visualized with three stages: Code, Build, and Production, each with its status (Pushed, Succeeded, In Progress). A comment from Chloe Clark is visible, followed by a reply from Liam Parker. A footer at the bottom right shows a link to the Azure resources documentation.

Liam Parker

@Chloe Clark

Code

Build

Production

Yeah, that would be a better pattern, I'll make the change in my next update

1

Chloe Clark

Awesome!

Azure resources

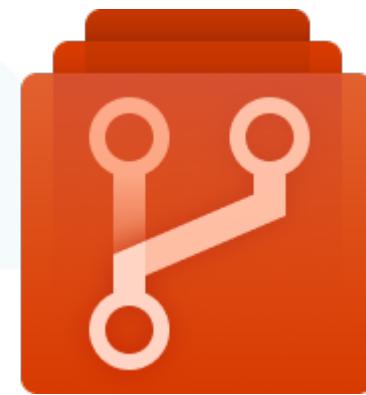
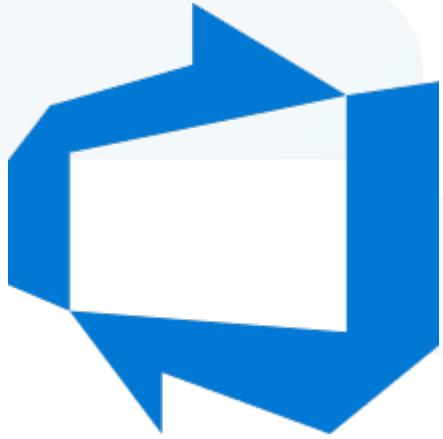
[Azure resources](#)

# HOL: Tworzenie i praca z Pull Requests w Azure Repos

- <https://azuredevopslabs.com/labs/azuredevops/pullrequests/>

# HOL: Continuous Integration z wykorzystaniem Azure Pipelines

Piotr Rogala

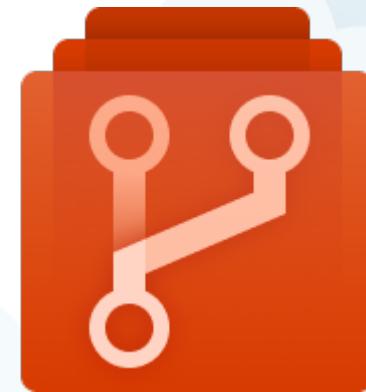


# HOL: Continuous Integration z wykorzystaniem Azure Pipelines

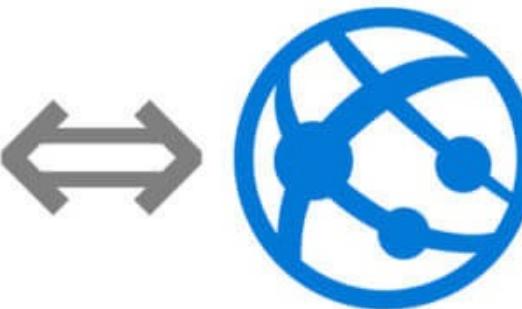
- <https://azuredevopslabs.com/labs/azuredevops/continuousintegration/>
- <https://azuredemogenerator.azurewebsites.net/>
  - Project: PartsUnlimited

# HOL: Continuous Delivery z wykorzystaniem Azure Pipelines

Piotr Rogala



staging.website.com



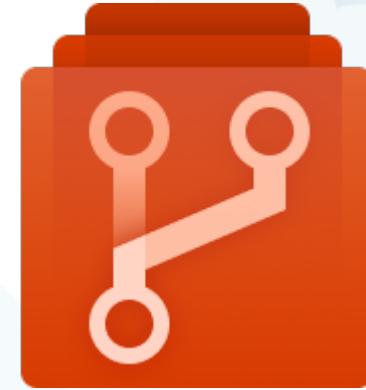
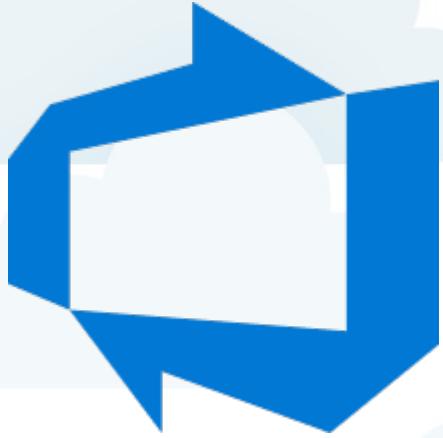
Web App  
production.website.com

# HOL: Continuous Delivery z wykorzystaniem Azure Pipelines

- <https://azuredevopslabs.com/labs/azuredevops/continuousdeployment/>
- <https://azuredevopsdemogenerator.azurewebsites.net/>
  - Project: PartsUnlimited

# HOL: Konfiguracja CI/CD w Azure Pipelines za pomocą YAML

Jakub Podoba



YAML

# HOL: Konfiguracja CI/CD w Azure Pipelines za pomocą YAML

- <https://azuredevopslabs.com/labs/azuredevops/yaml/>
- <https://azuredevopsdemogenerator.azurewebsites.net/>
  - Project: Parts Unlimited

HOL:

Używanie kluczy/sekretów z Azure  
KeyVault w Azure Pipelines

Piotr Rogala

HOL:

Automatyzacja wdrażania infrastruktury do  
chmury z wykorzystaniem Terraform i  
Azure Pipelines

Jakub Podoba

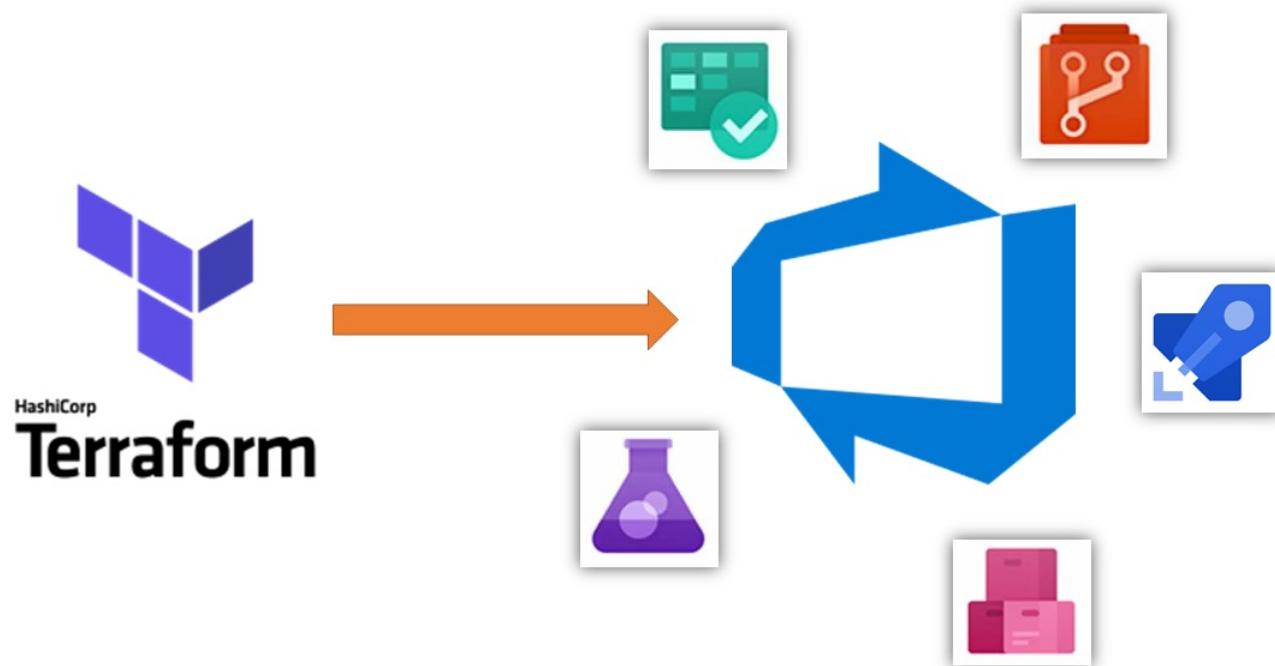
# HOL: Używanie kluczy/sekretów z Azure KeyVault w Azure Pipelines

- <https://azuredevopslabs.com/labs/vstsextend/azurekeyvault/>



# HOL: Automatyzacja wdrażania infrastruktury do chmury z wykorzystaniem Terraform i Azure Pipelines

- <https://azuredevopslabs.com/labs/vstsextend/terraform/>



# [WRO] #6 Workshop Microsoft Azure User Group Poland we Wrocławiu

Michał Jankowski / Piotr Rogala / Jakub Podoba

## 1 piętro



Microsoft Azure  
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