

ADD0

ALL DAY DEVOPS

NOVEMBER 6, 2019

Ángel M. Rayo

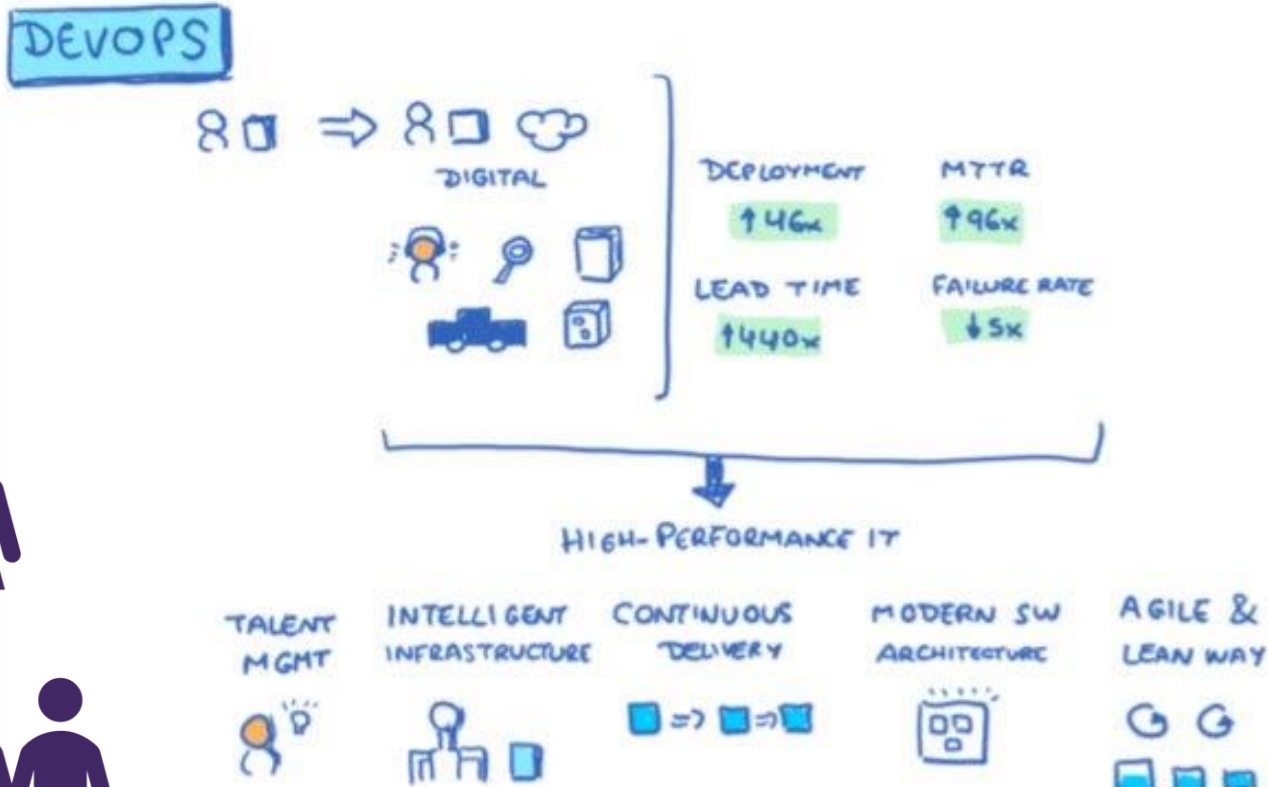
Azure DevOps from Start to Star



Azure DevOps – from start to star



What's DevOps?



<https://www.devopsagileskills.org/dasa-devops-principles/>

DevOps Elements

- There's no place like **production**
- Agile practices + operations = team responsibility
- Small batches
- Growth mindset
- MTBF + MTTM + MTTR

<http://stories.visualstudio.com/bing-continuous-delivery/>

<http://stories.visualstudio.com/devops/>



What's Azure?



Azure - Services

- More than 600* services:
 - AI + ML
 - Analytics
 - DevOps
 - Databases
 - Compute
 - Containers
 - Storage
 - ...

<https://azure.microsoft.com/en-us/services/>

* Microsoft and third-party services



Azure – Regions

54 regions
worldwide

140 available in
140 countries



Azure DevOps

<http://dev.azure.com>



Azure
Boards

Plan, track, and discuss work across teams, deliver value to your users faster.



Azure
Repos

Unlimited cloud-hosted private Git repos. Collaborative pull requests, advanced file management, and more.



Azure
Pipelines

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



Azure
Test Plans

The test management and exploratory testing toolkit that lets you ship with confidence.

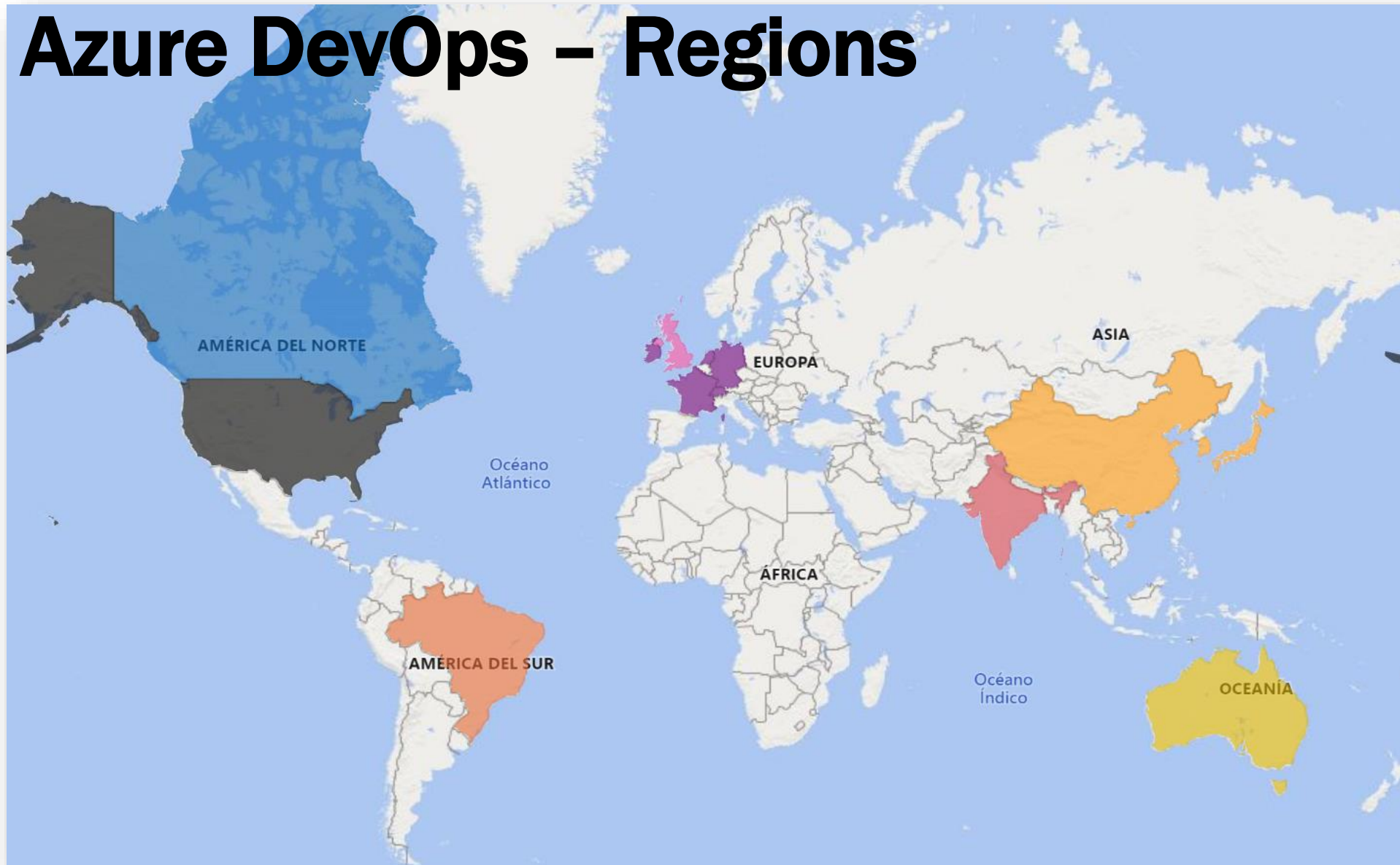


Azure
Artifacts

Create, host, and share packages. Easily add artifacts to CI/CD pipelines.



Azure DevOps – Regions



Azure DevOps – Health Check

<https://status.dev.azure.com/>

Service health								
	United States	Canada	Brazil	Europe	United Kingdom	Asia Pacific	Australia	India
 Core services	✓	✓	✓	✓	✓	✓	✓	✓
 Boards	✓	✓	✓	✓	✓	✓	✓	✓
 Repos	✓	✓	✓	✓	✓	✓	✓	✓
 Pipelines	✓	✓	✓	✓	✓	✓	✓	✓
 Test Plans	✓	✓	✓	✓	✓	✓	✓	✓
 Artifacts	✓	✓	✓	✓	✓	✓	✓	✓
 Other services	✓	✓	✓	✓	✓	✓	✓	✓

Azure Boards



Azure
Boards

Plan, track, and discuss
work across teams,
deliver value to your
users faster.

- Manage Work Items
- See the progress
- Query the status
- Planning the work

- ➔ Backlogs & Sprints
- ➔ Queries
- ➔ Plans aligned with backlogs



Azure Repos



Azure
Repos

Unlimited cloud-hosted private Git repos. Collaborative pull requests, advanced file management, and more.

- Get source code
 - Version control
 - See the changes
 - Control the changes
 - Document the changes
- ➔ Files in the project
 - ➔ TFVC or Git (commits)
 - ➔ Pushes and Branches
 - ➔ Pull Requests
 - ➔ Documentation



Azure Pipelines



Azure
Pipelines

- Compile the app
- Release the app
- Library
- Task Group
- Deployment gr.
- XAML



- ➔ Builds from the repository
- ➔ Releases
- ➔ Manage variables or secure files
- ➔ Customize the pipeline
- ➔ Machines (Windows or Linux)
- ➔ Old building model

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



Azure Test Plans



Azure
Test Plans

- Test Plans
- Parameters
- Configurations
- Runs
- Load test

- ➔ Test Suites & Test Cases
- ➔ Customize the test cases data
- ➔ Different OS, browsers, i.e.
- ➔ Execute the tests
- ➔ Check responsiveness of the app

The test management and exploratory testing toolkit that lets you ship with confidence.



Azure Artifacts



Azure
Artifacts

Create, host, and
share packages.
Easily add artifacts
to CI/CD pipelines.



Maven[™]



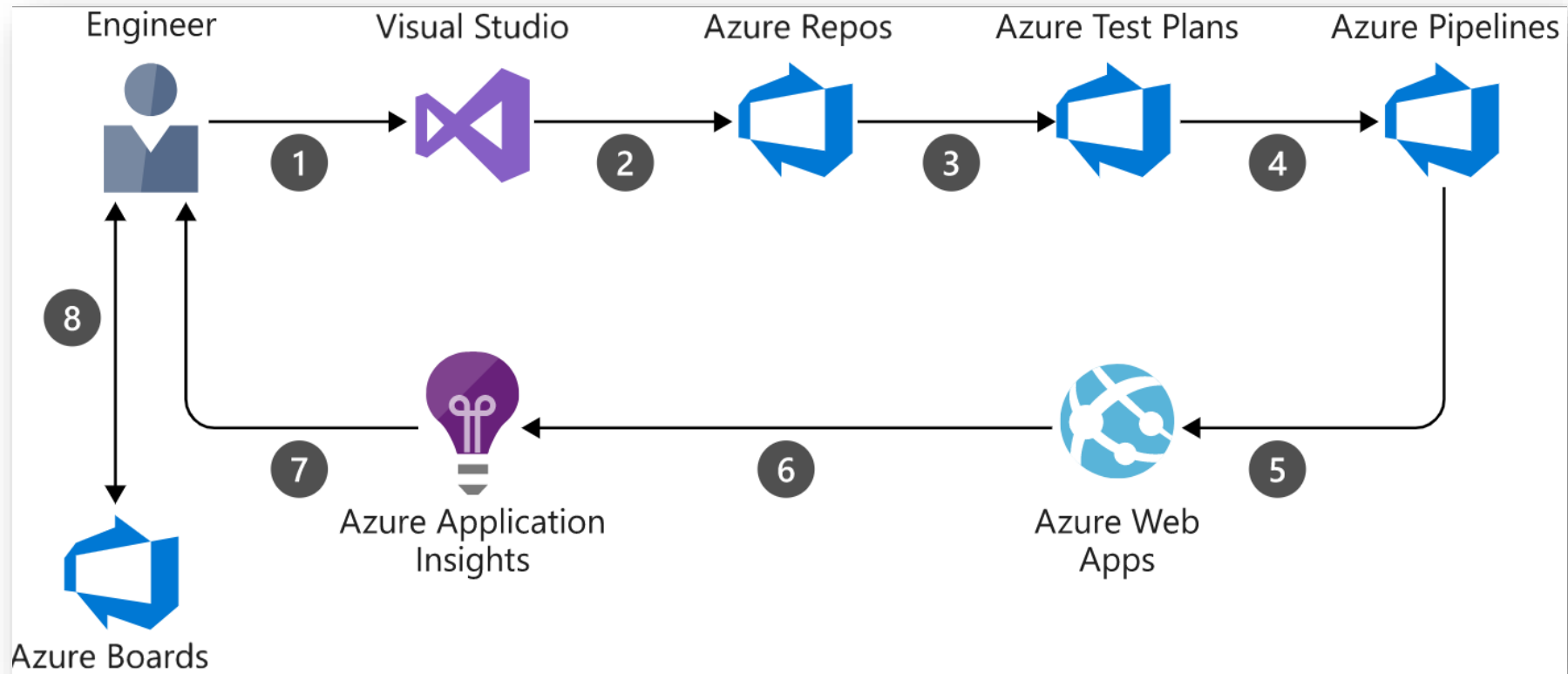
- Create our own package repository
- Connect with feeds of main package repositories:

- NuGet
- npm
- Maven
- Gradle
- Universal

- ➔ .NET packages
- ➔ JavaScript packages
- ➔ Java packages
- ➔ Java packages
- ➔ different packages



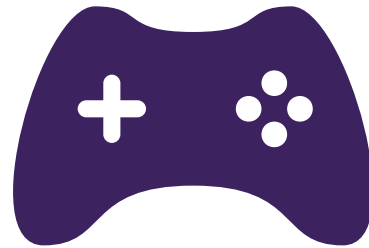
Azure DevOps – full example



<https://docs.microsoft.com/en-us/azure/architecture/example-scenario/apps/devops-dotnet-webapp>



Demo Azure DevOps





Ángel M. Rayo

- SQL Server, SharePoint, Azure, .NET
- MCT since 2005
- Live in Madrid, Spain
- Work in Bit by Netmind



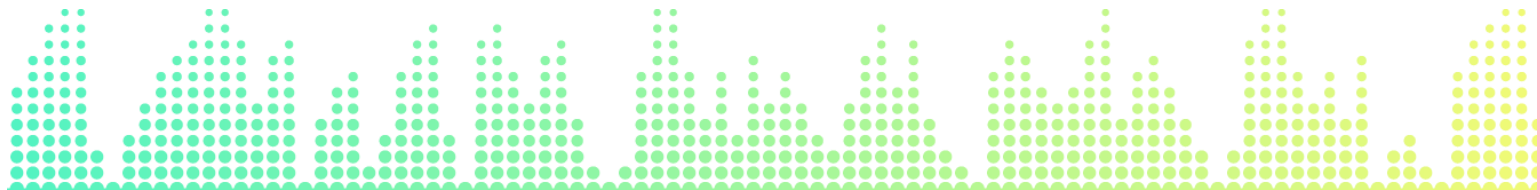
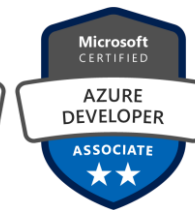
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