

Why Azure DevOps?

Why Azure DevOps over other solutions?

- Highly available, multi region, hybrid cloud & on-prem
- Broadest collection of features and fully integrated with end to end traceability
- Full visibility to the process
- Scalable to any team and project size
- Microsoft investment levels to DevOps service are massive as it is used in developing Microsoft products- bright future and continuously new features
- Multiple individual features that are the cutting edge such as identity management

Azure DevOps Services - Key Features



Repos

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

Support for any Git client, Semantic code search



Boards

Combine drag-and-drop sprint planning and flexible work item tracking with comprehensive traceability to have the perfect home for all your ideas—big and small.

Plan, track, and discuss work across your teams



Test Plans

Plan, execute, and track scripted tests with actionable defects and end-to-end traceability.

Planned and exploratory testing solution



Artifact

Integrated package management to continuous integration/continuous delivery (CI/CD) pipelines

Create, host, and share packages with your team



Pipelines

Simplify managing hardware and VMs by using Microsoft cloud-hosted agents. Full CI/CD pipeline support for every major platform and tool.

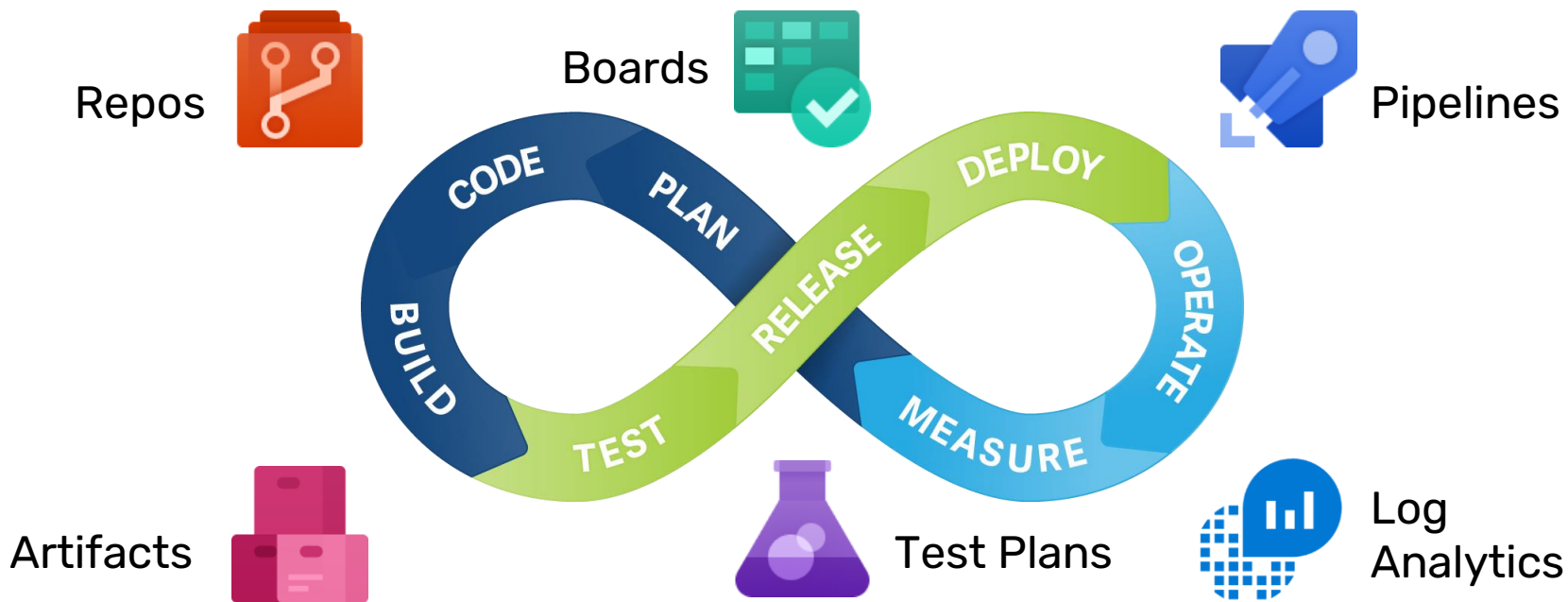
Continuously build, test, and deploy to any platform and cloud

Continuous Integration

Continuous Deployment

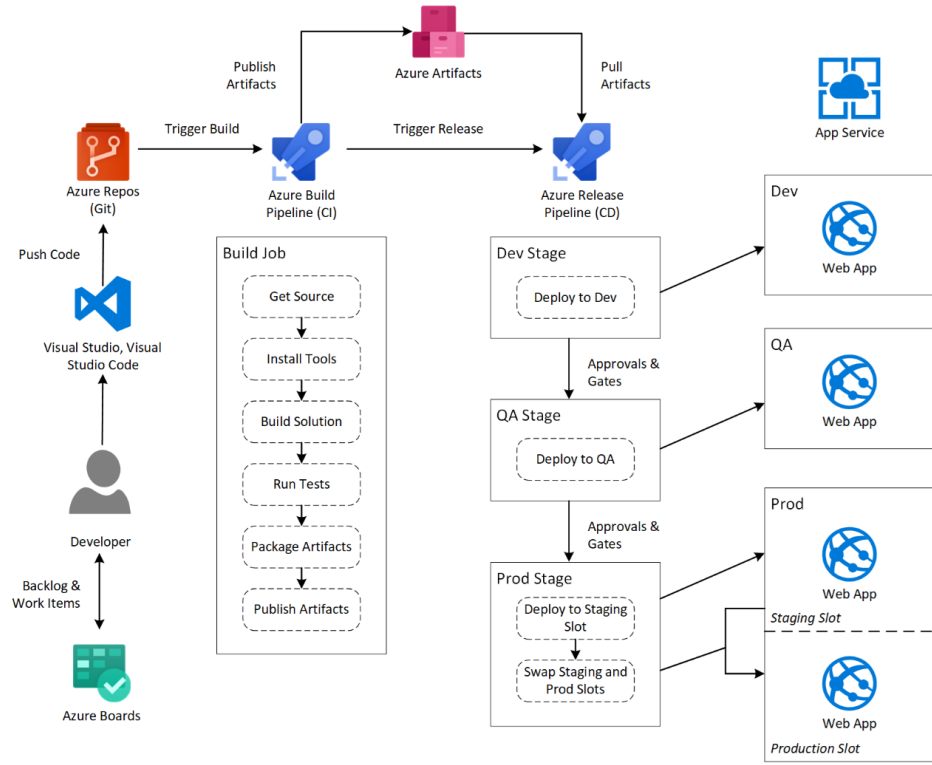
DevOps Concept

Doing DevOps with Azure DevOps (CI/CD)



DevOps Concept

Doing DevOps in Azure (CI/CD)



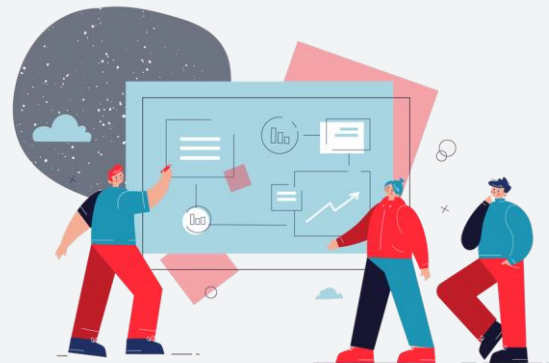
Case Nordcloud

How Nordcloud is using Azure DevOps?



Nordcloud Engineering

- 30 people
- 10 software products
- About **70 repositories** in GitHub
- Tens of releases to production **daily**
- Tens of pipelines
- Tech stack Golang/Python/TypeScript
- Highly **serverless** (hundreds of Lambda functions)
- **No VMs, No containers**



Why we moved from the previous vendor

No permission control

No **permissions** control and ability to create groups, fine grained authorization and connect the solution reliably with our **IDP** (Azure AD). No ability to **group repositories** and CI/CD into **projects**.

Lack of support for mono repos

No **path based** pipeline triggers and fine control of artifacts. Lack of good **visualisation**.

Secret management

Secret management was not **reliable**, every repository had the same set of secrets. Lack of possibility to **rotate** secrets in a simple way.

Extensibility and automation

No **templating** and **extensibility** besides the native YAML templating support. No reusability due to lack of **automation** for terraform providers.