Building Microsoft Cloud Solutions: A DevOps Perspective

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"It is not the strongest of the species that survives, nor the most intelligent, but the one most responsive to change."

(Leon Megginson (1963): commonly misattributed to Charles Darwin.)

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Session overview

- Positioning DevOps in
- Orchestrating our definition
- Automated Testing
- The full 360 with DevOps

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DevOps

A brief overview

The goals and results of DevOps

- Improve deployment frequency
- Achieve faster time to market
- Lower failure rate of new releases
- Shorten lead time between fixes
- Improve mean time to recovery
- ….

DevOps is a way to lower the risk of change with tools and **culture.**

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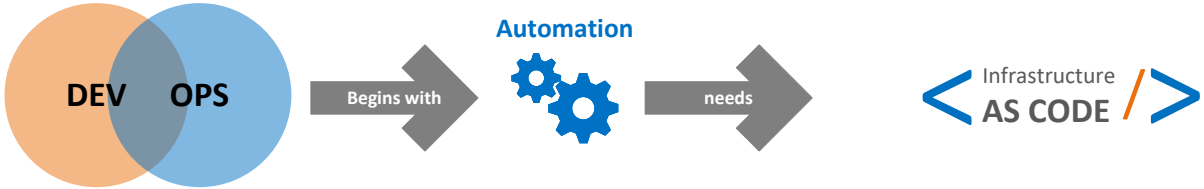
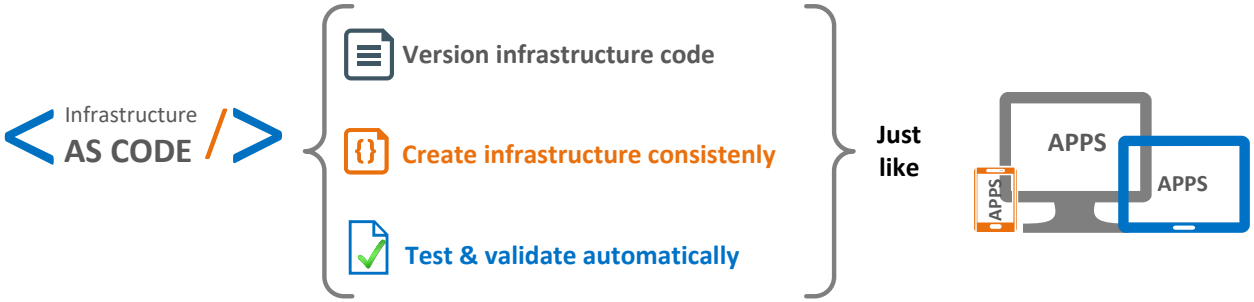
Modernize DevOps





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DevOps

For IT Operations

Flexibility & agility is possible when a solution is build on "Guarantees".

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DevOps for IT Operations

How does this translate?

- Design for the cloud.
- Applications consume building blocks
- Standard (automated)service(s)
- Secure by design, compliant by default

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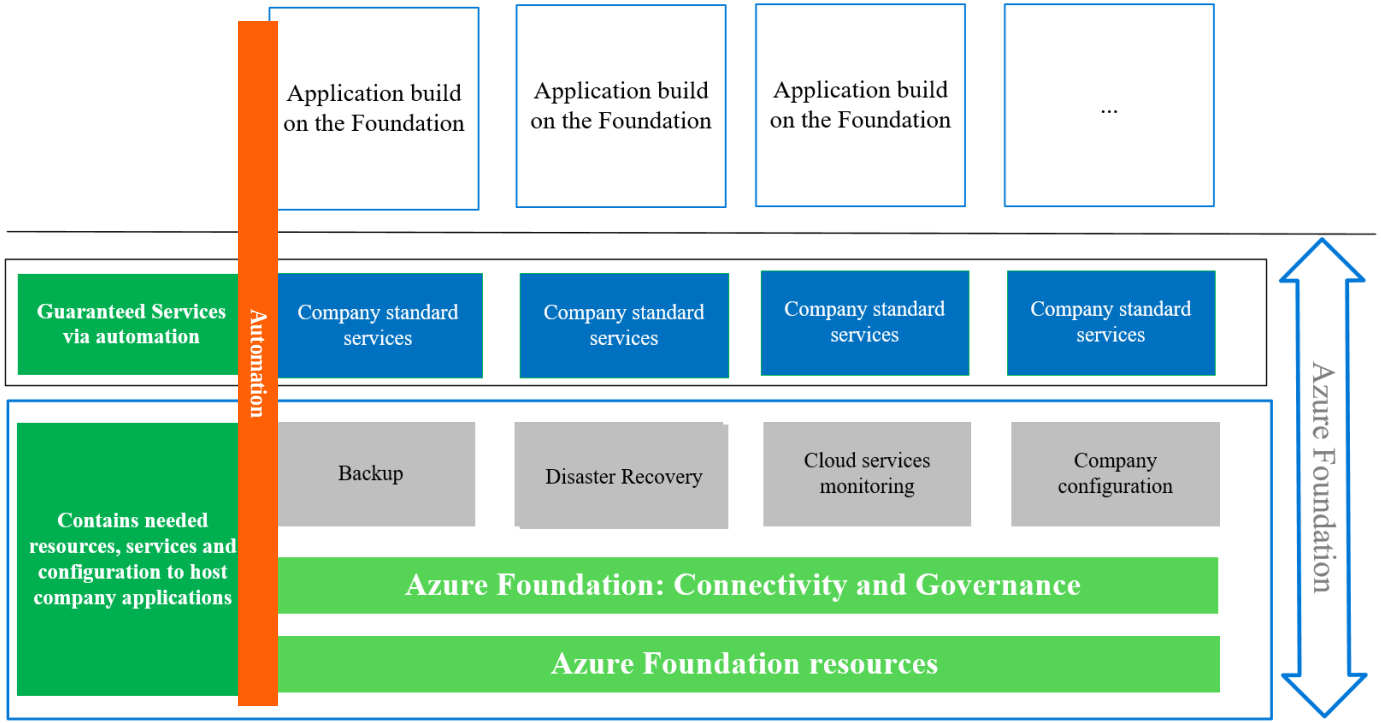
DevOps in IT services



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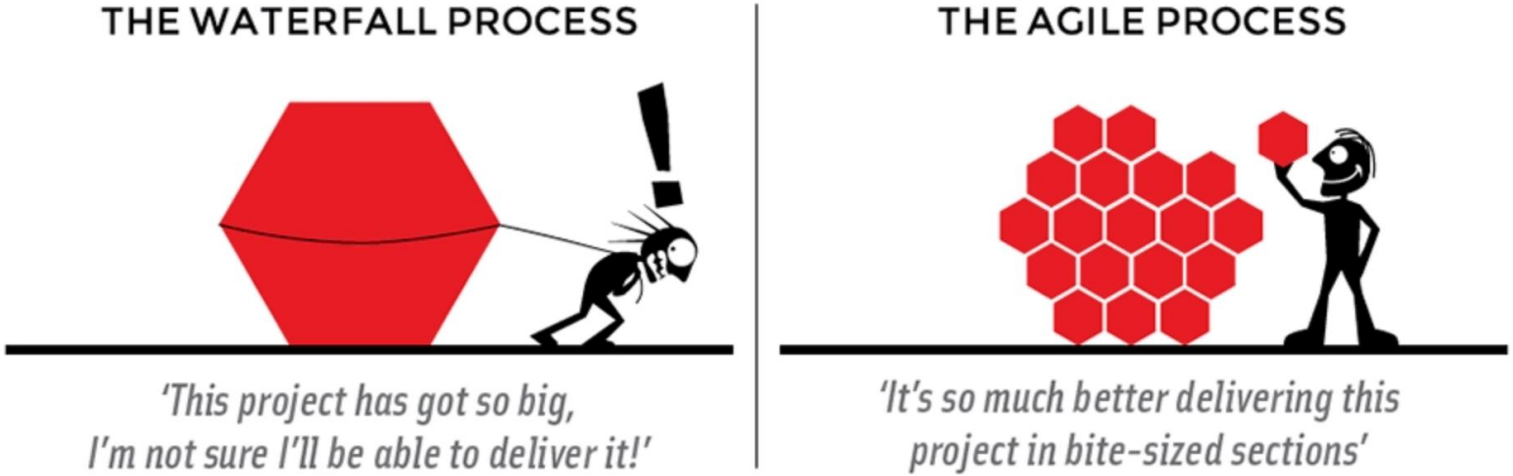
For projects

DevOps in solution definition

No waterfall cloud projects, define your iterations!



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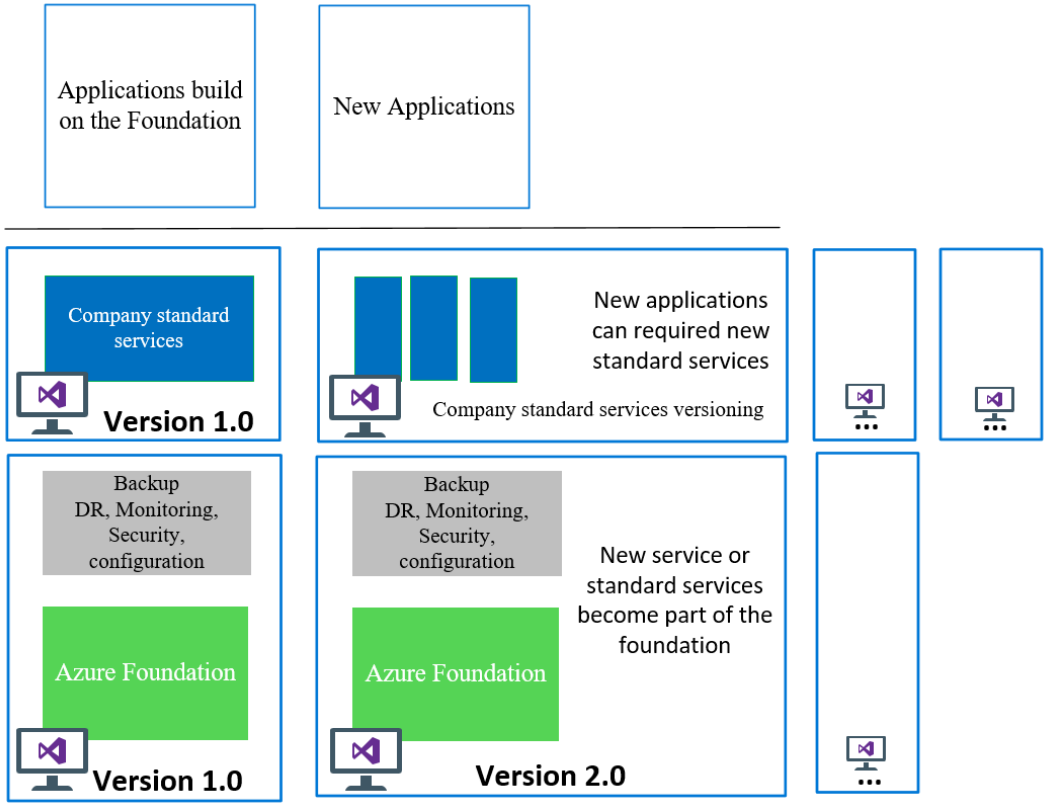
DevOps for projects



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DevOps for projects

Approach

- Cut your solution in pieces to map development.
- Make work visible
- Short iterations, regular demo sessions.

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DEMO

Organize

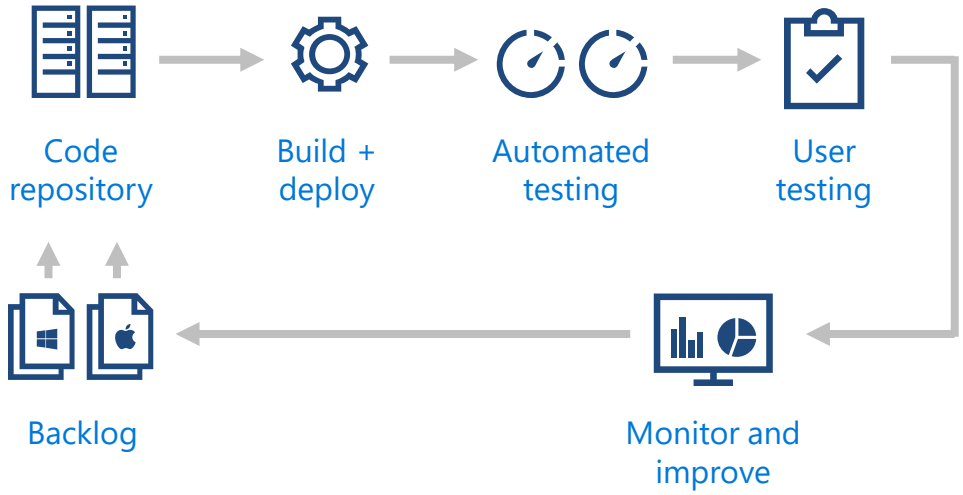
DevOps

In a cloud world

DevOps in a cloud world

Cloud IT infrastructure = Code, releases, updates and management in an automated way.

DevOps



People – Process - Tools

Communication

Guaranteed quality

One approach

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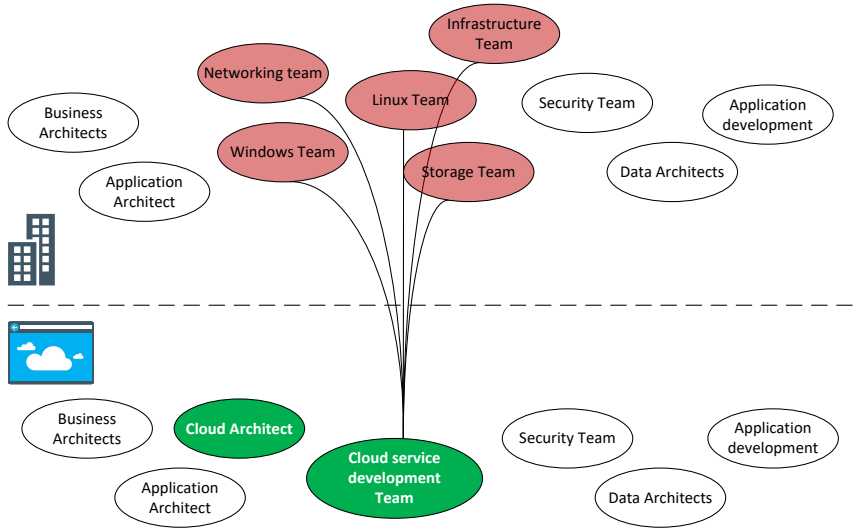
DevOps in a cloud world

Teams are a mixture of competences

- Each develops own part of the solutions.
- Defined deliverable
- Communication to develop defined deliverable



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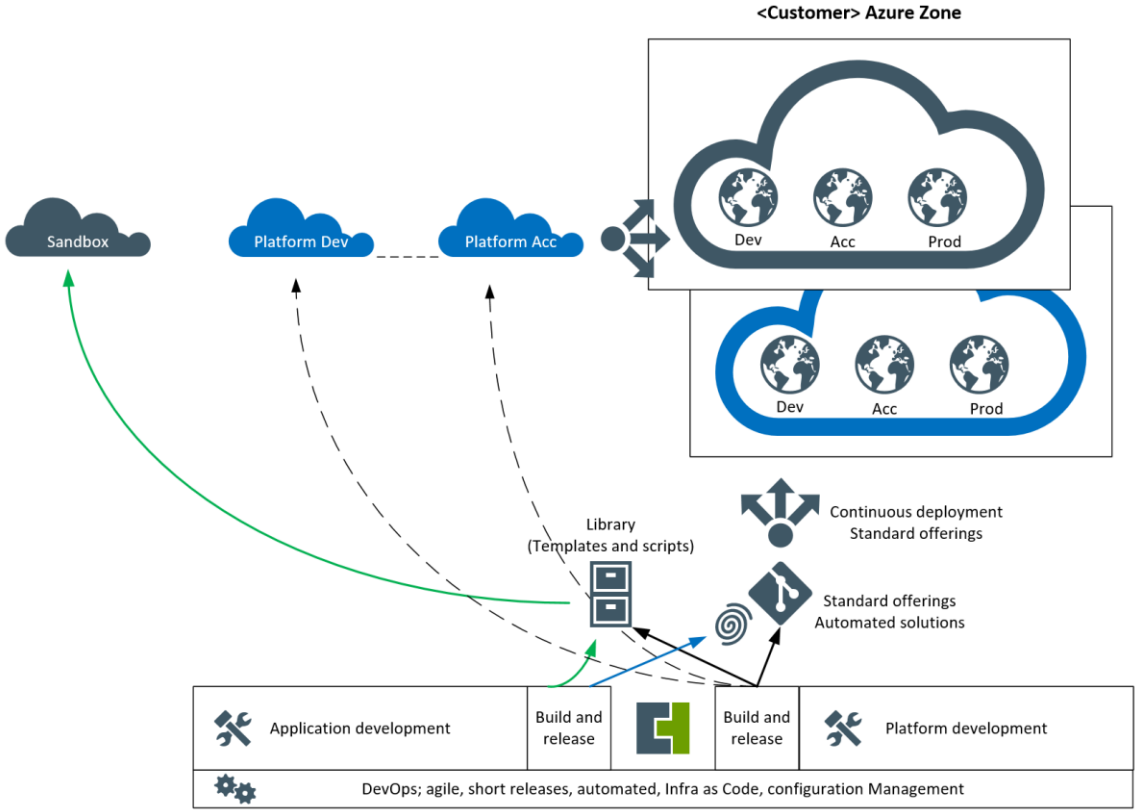
DevOps in approach



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DevOps in a cloud world

Approach

- Define one common approach
- Translates you work…
- … into a deliverable

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Deliver

DevOps

Orchestrate your delivery

Release pipeline to orchestrate definition

- It all starts with the delivery
- Validation using gates
- Release

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Orchestrate you delivery

DevOps

Security and compliance

Automated security

What to automate, when to automate, or even whether one really needs automation

- How to handle sensitive information?
- How to validate compliance?

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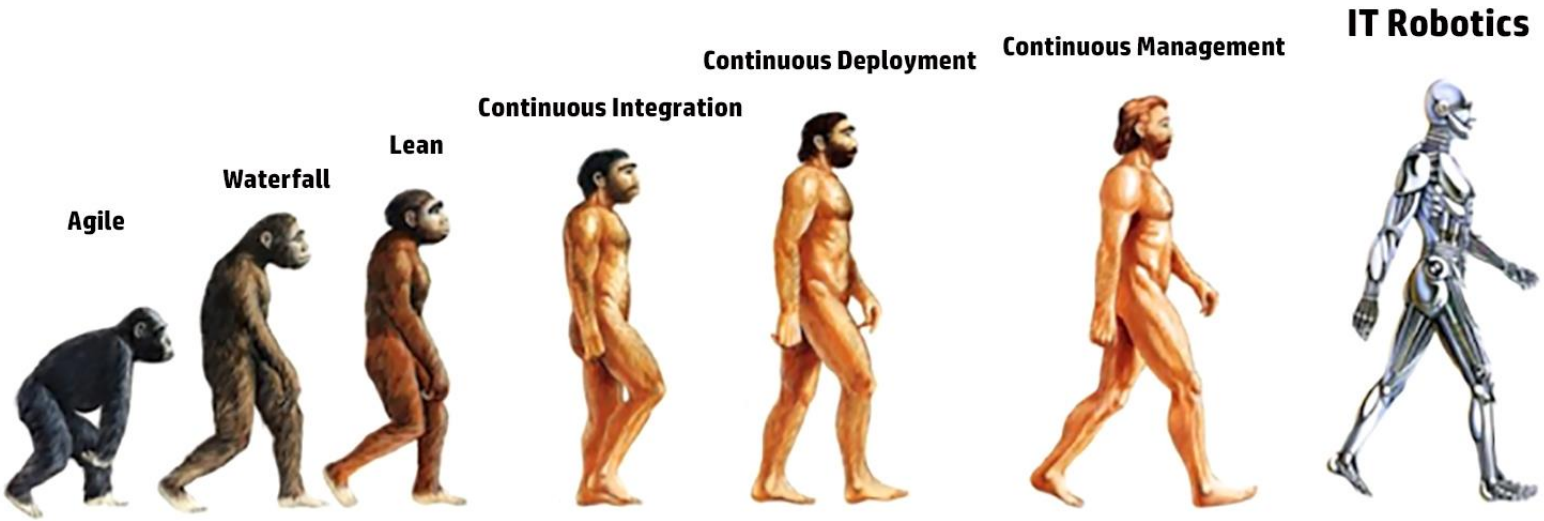
Secure and compliant

DevOps

Reflect

The full 360 is possible with DevOps



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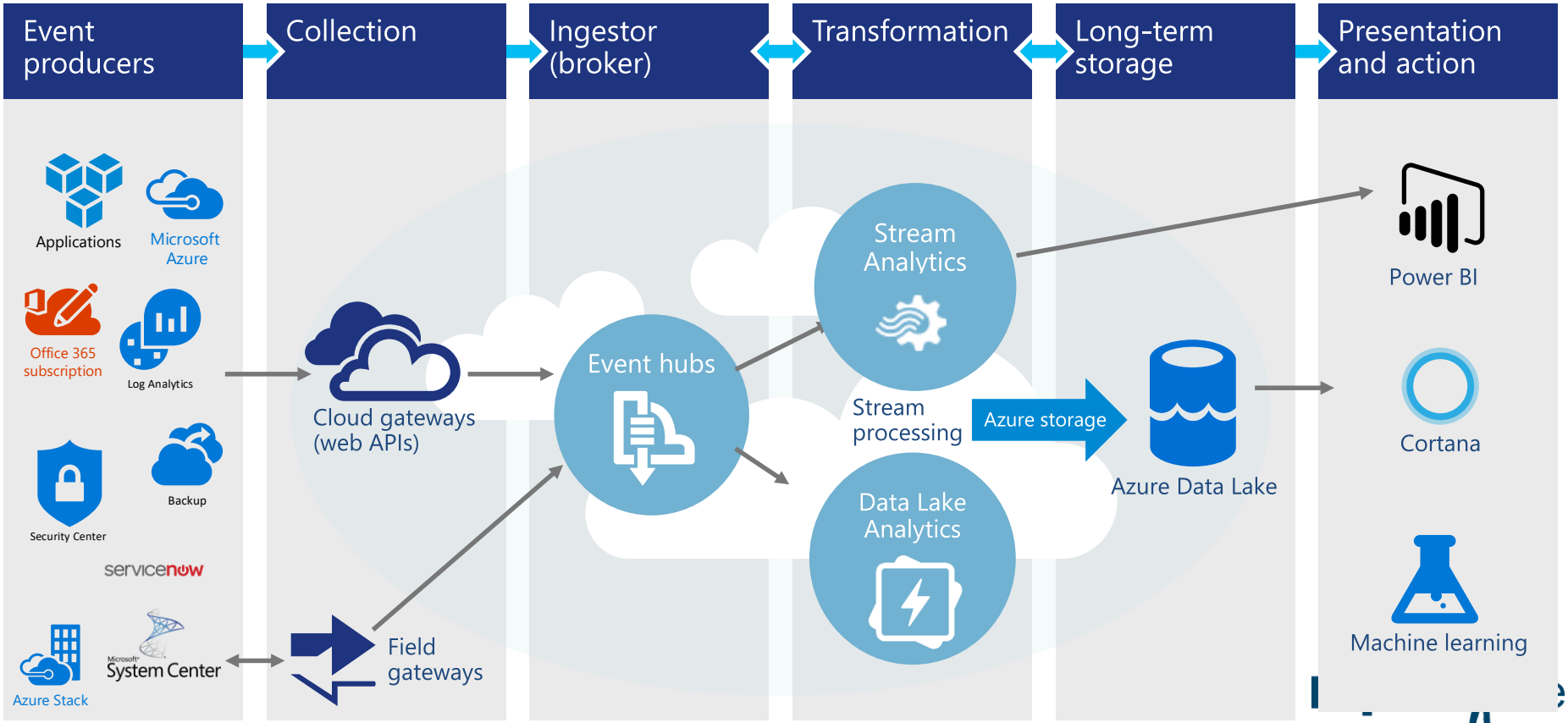
The full 360 is possible with DevOps



DevOps

Recap

Recap of the session

Shorten cycle times and deliver value faster

Speed up development cycles with developer productivity tools

Automate the workflow between Dev and Ops and deploy faster

Continuously measure, learn and improve with state of the art DevOps tools and an agile cloud platform

Implement DevOps Pipelines Faster on Azure

Easily deploy pre-integrated DevOps Pipelines

Integrate into Azure with plugins for on-demand build and test servers (i.e. Jenkins)

Leverage native or 3rd party monitoring

Optimize IT resources and eliminate waste

Improve developer agility and resource efficiency with cloud Dev and Test environments

Eliminate over-provisioning, lower costs and automate your deployment workflow with cloud environments for pre-production

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Questions?

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links

Visual studio online

Invoke-build

Presentation github repo

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