DevOps in Cloud

Continuous Automation - unravel the mystery

15-01-2020

Trusted partner for your **Digital Journey**

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GDG Cloud Bydgoszcz

Professional Cloud Architect- Google Cloud Certification Guide

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Continuous Automation - unravel the mystery

When?

Where?

What?

Why?

Who?

How?

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Who?

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Private Cloud scenarios

Multicloud scenarios

Any Cloud scenarios

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What?

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Continuous Design

Continuous Integration

Continuous Delivery

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Never ending ideas evaluation and assessment

Dynamic designs that are proactive to address new challenges and reactive to address exiting problems

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Code development and intensive unit testing

Automated integration testing to address potential problems and faults between developed units

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Unified testing approach extended by customer needs

Synergy between R&D and Operations

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[When?]

[Deployment]

[Lifecycle Management]

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[Where?]

My own datacenters

Customers datacenters

Any datacenters

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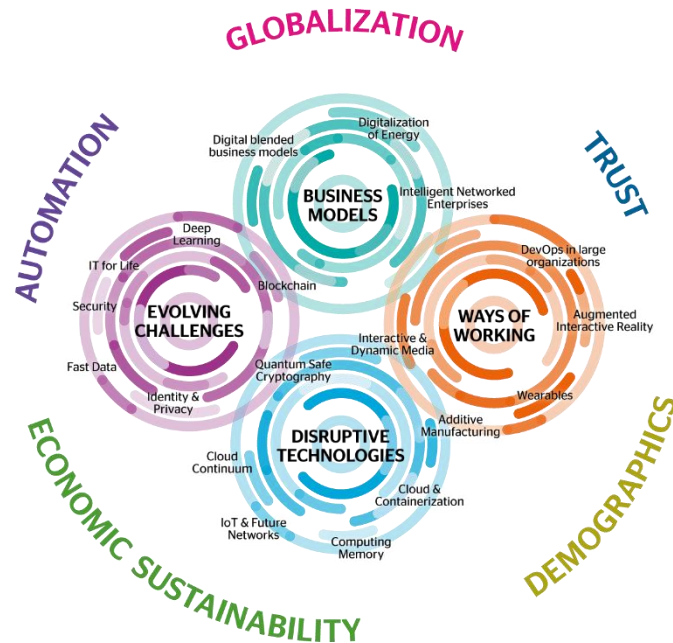Continuous Automation - unravel the mystery

Why?

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Predictability of **time** and **costs** significantly increasing customer satisfaction and introducing significant business value into both Atos and customer relations

Only full stack automation is able to increase efficiency of business. **Continuous automation** is a mandatory enabler for automation **journey** that allows movement of service and overall business to the next level.

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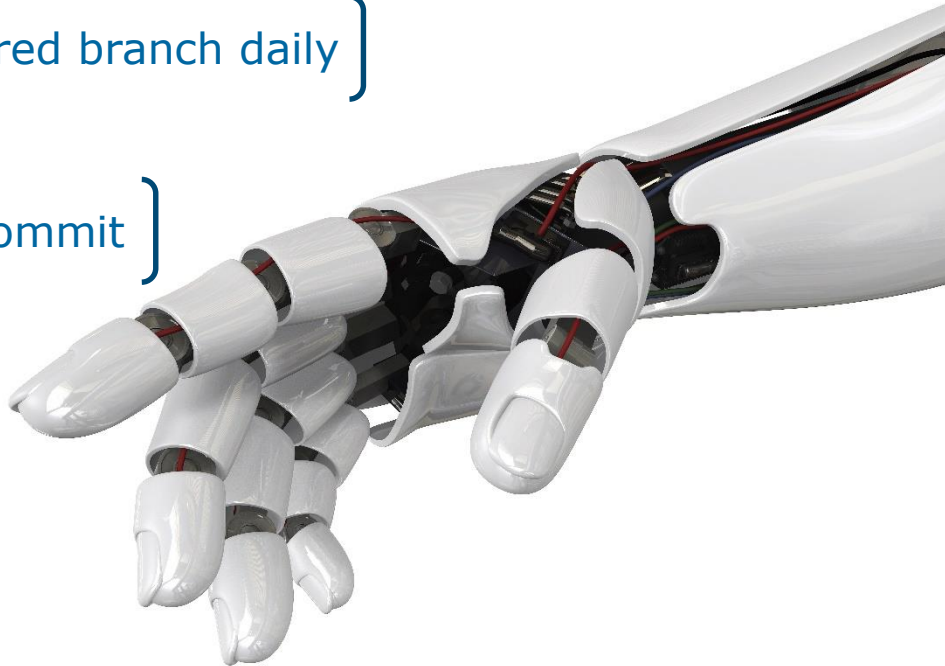# DevOps in Cloud
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How?

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Commit to shared branch daily

Autmated build and tests after code commit

Fix problems in short time

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All pipelines **divided into blocks** with defined function that can be changed depending on cloud vendor

Every infrastructure element defined and **infrastructure as a code** in YAML format

Management services toolset defined in **any cloud** ready way

All configuration elements are deployed, managed and maintained via **API** without any manual activity **driven** configuration activities

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All pipelines are designed in **variable driven** fashion allowing adaptation to business needs

Due to full automation on deployment level all changes are fully trackable and incorporated in **automated testing** pipelines.

Every implementation is equipped with **own code repository** that allows easy management for customizations

Clear and simple hardware requirements that make solution no hardware vendor fixed

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Full stack automation **decrease** Atos **operational costs**

Continuous Automation **reduces entropy** of environment and increase change process confidence

Simplicity reduces time and effort required to resolve complex production and development problems.

Automation on all stages allows customers to **reduce** amount of unknown unknowns to mitigate **errors and downtimes** allowing to validate business needs and challenges in safe way.

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Deployment **Lifecycle**

Risk Experiment

Discipline and Quality

Development   Integration   Test   Production

Deployment **Lifecycle**

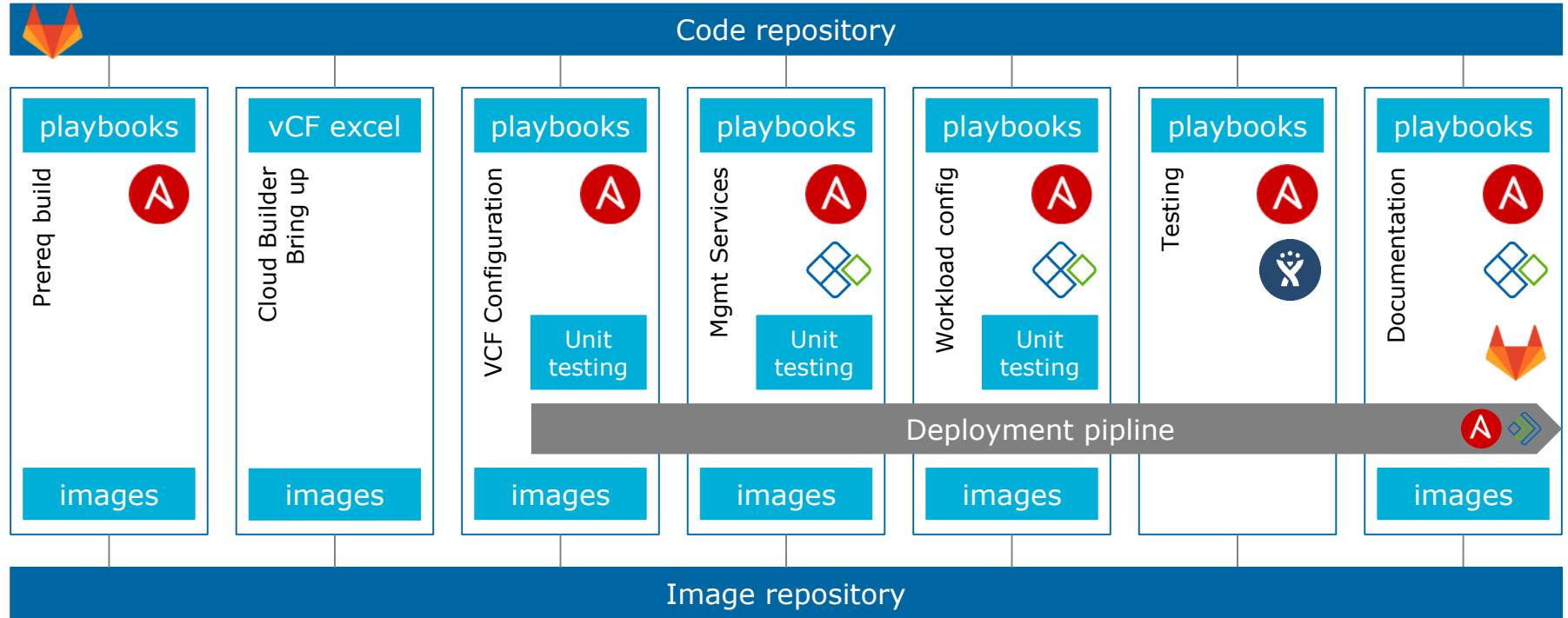**Risk Experiment**

Discipline and Quality

Development   Integration   Test   Production
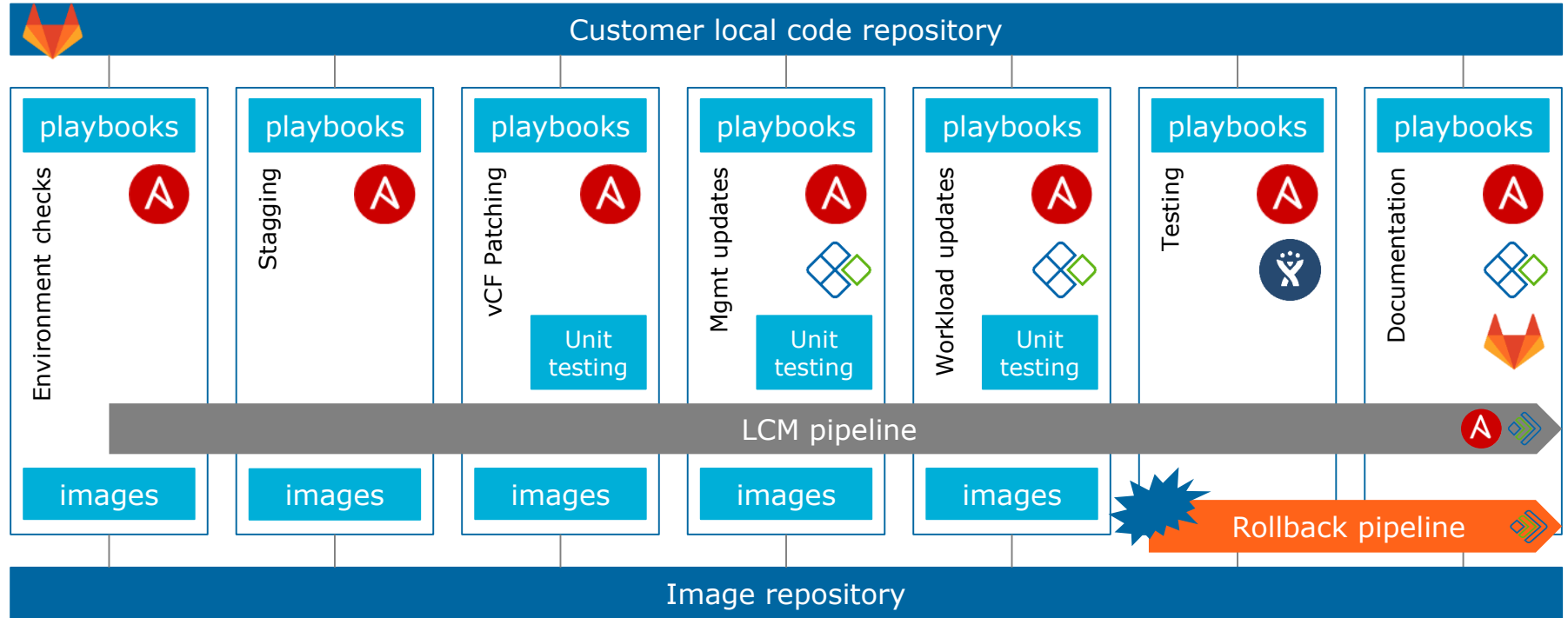
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Code repository

Prereq build	Cloud Builder Bring up	VCF Configuration	Mgmt Services	Workload config	Testing	Documentation
playbooks	vCF excel	playbooks	playbooks	playbooks	playbooks	playbooks
		Unit testing	Unit testing	Unit testing		
images	images	images	images	images		images

Deployment pipline

Image repository

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Questions & Answers