

DEVOPS

Bring better products to end user faster

Agenda

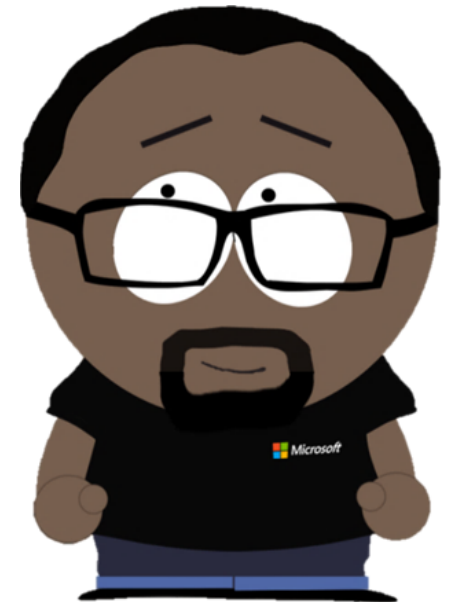
1. Definition
2. Benefits
3. Application Lifecycle
4. Culture
5. Practices
6. Tools

“

DevOps is the union of people,
process, and products to enable
continuous delivery of value to
our end users.

”

Donovan Brown

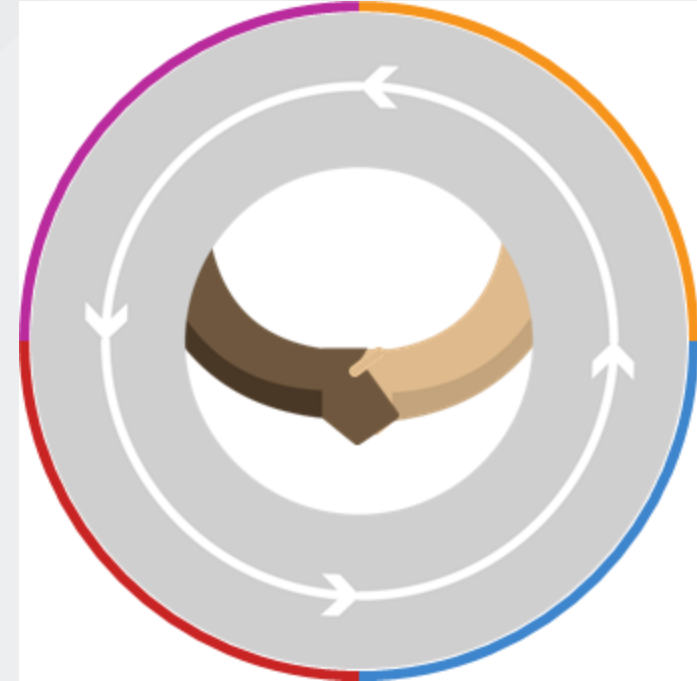


DevOps

PEOPLE



PROCESS



PRODUCTS

Benefits

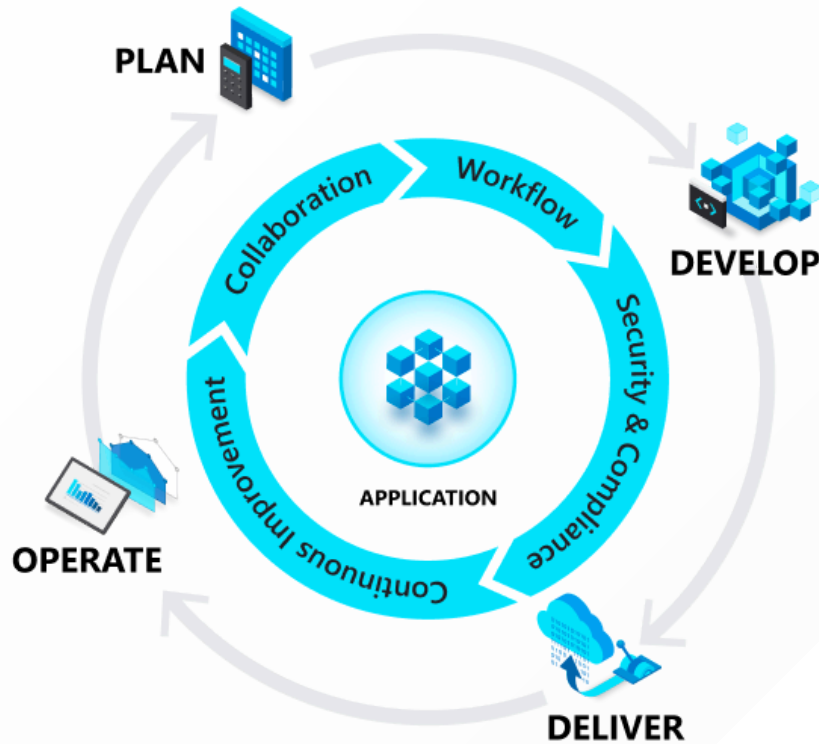
Accelerating time to
market

Adapting to the
market and
competition

Maintaining system
stability and
reliability

Improving the mean
time to recovery

Application Lifecycle



DevOps influences the application lifecycle throughout its phases:

- plan
- develop
- deliver
- operate

In a true DevOps culture, each role is involved in each phase to some extent.

Culture

While adopting DevOps practices automates and optimizes processes through technology, it all starts with the culture inside the organization- and the people who play a part in it. The challenge of cultivating a DevOps culture requires deep changes in the way people work and collaborate.

Collaboration,
visibility, and
alignment

Shifts in scope and
accountability

Shorter release
cycles

Continuous learning

Practices

Beyond establishing a DevOps culture, teams bring DevOps to life by implementing certain practices throughout the application lifecycle. Some of these practices help accelerate, automate, and improve a specific phase. Others span several phases, helping teams create seamless processes that help improve productivity.

Version
Control

Continuous
integration
and
continuous
delivery
(CI/CD)

Agile
Software
Development

Infrastructure
as Code

Configuration
Management

Continuous
Monitoring



Build

SCM & VCS



Test

Browser



Load / Performance



Deploy

Configuration Management



Run

Containers



Orchestration



Compute



Monitor

Time-Series Metrics



Big Data

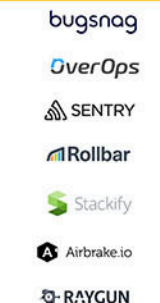


Cloud Cost



Unstructured Data

Application Errors



Application (APM)



Observability



Cloud Infrastructure



Traditional Infrastructure



Network

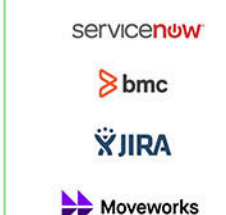


Manage

AIOps



Service Desk



Project Management

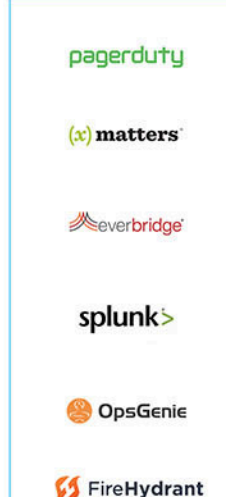


CRM Helpdesk

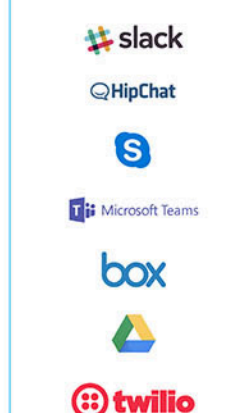


Notify

Escalate



Collaboration



Software Delivery Platform (CI/CD)



Continuous Integration



Continuous Deployment



Build



Chaos



Security



Code



Infrastructure Provisioning



Secrets Management



Serverless



Run-Time



OS

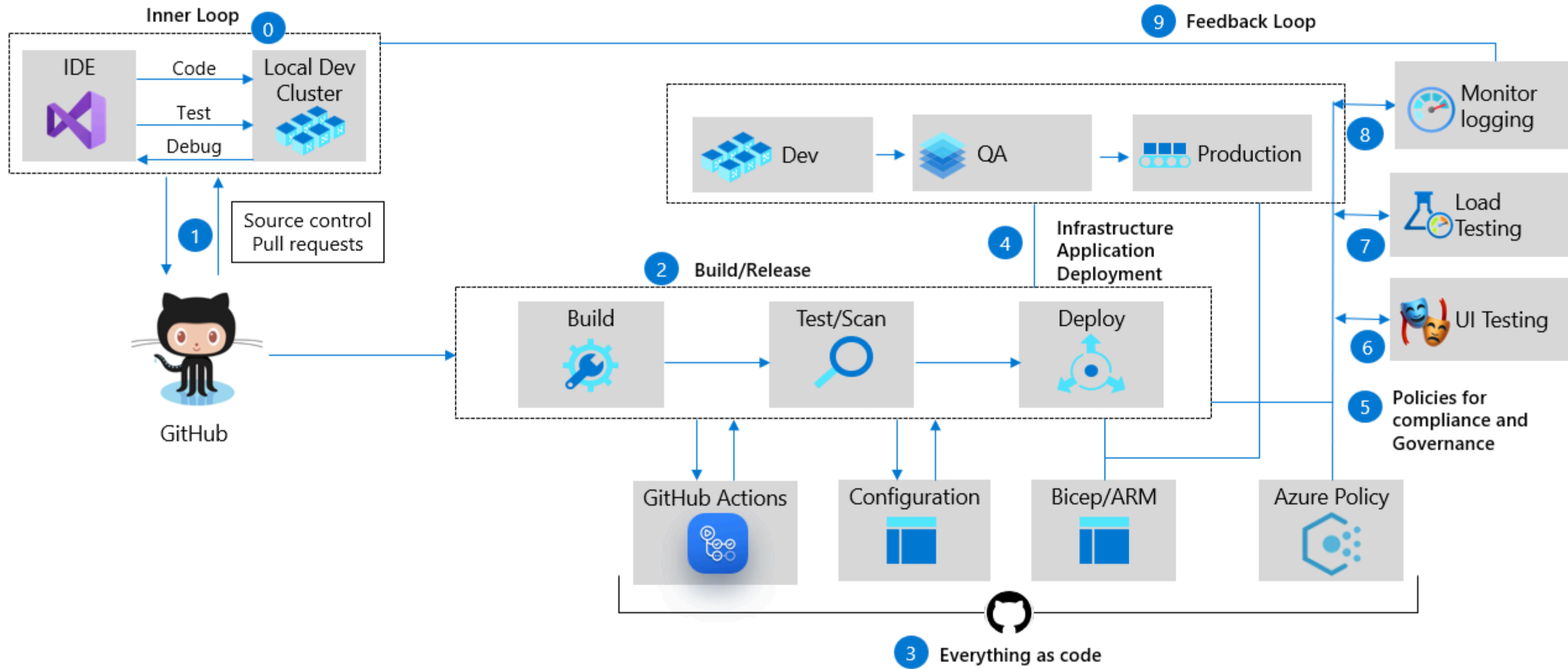


DB



CDN





DevOps

Agile Testing

Automated Testing

Agile Development

Continuous Integration

Continuous Delivery

Agile Processes

References

- [Donovan Brown Blog](#)
- [Microsoft Docs](#)
- [AWS Docs](#)
- [Learn more about Git](#)
- [Learn how Agile and DevOps work together](#)
- [Devops Nirvana](#)