

NT
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2022

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26. – 28. september 2022

#ntk22



DevSecOps along Cloud-hosted Dev Environments

Uroš Kastelic, Specialist – Azure App Innovation, Microsoft

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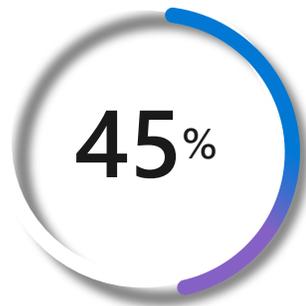
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It's time to shift security left and unite teams

Remediate threats as early as possible

Software supply chain



of organizations worldwide will have experienced attacks on their software supply chains by 2025

Source: Gartner. [Gartner Identifies Top Security and Risk Management Trends for 2022](#)

Shift left

60x

average security cost to fix a security defect in production versus in development

Source: Gartner. [Is the Cloud Secure?](#)

Fast Remediation

3 days

is the time it takes for a vulnerability to be exploited

Source: Sonatype. [State of the Software Supply Chain. 2020. Pg. 11](#)

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What is DevSecOps?

The benefits of DevSecOps

MORE SECURE CODE, SHIPPED AT THE SAME SPEED

DevOps Definition (Development + Operations)

DevOps is the **union of people, processes, and technology** to deliver **continuous value** to users.

DevSecOps Definition (Development + Security + Operations)

DevSecOps is an evolution in the way development organizations approach security by introducing a **security-first mindset culture**, and **automating** security into **every phase** of the software development lifecycle from design to delivery.



Reduce remediation time by shifting security left

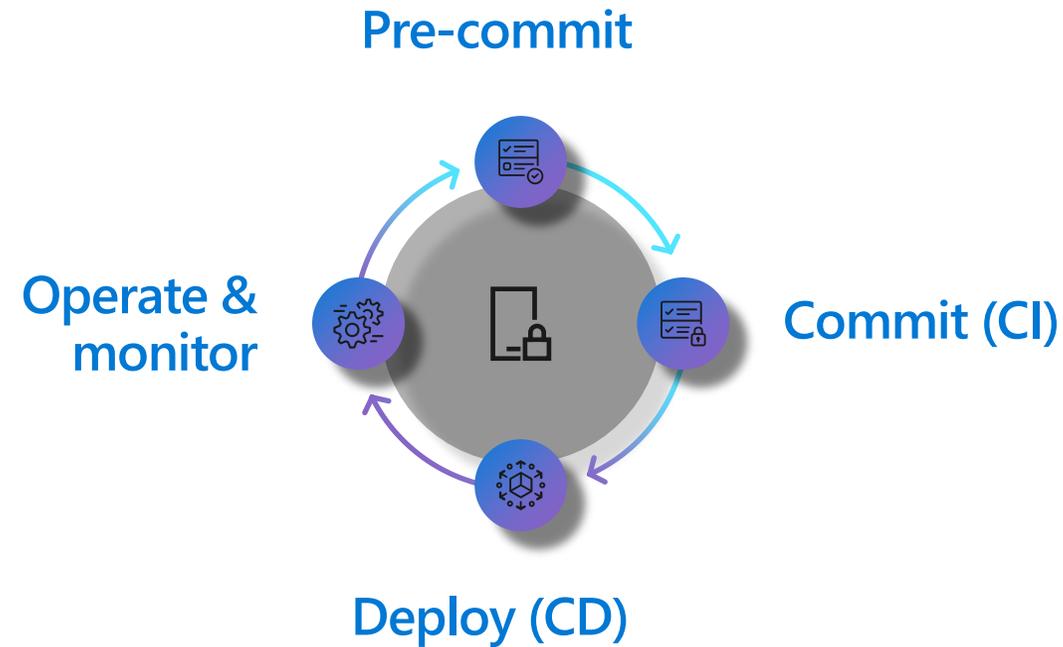


Integrate with and secure your existing toolchains



Quickly identify new threat vectors

Where security fits in the development lifecycle



Where security fits in the development lifecycle

Pre-commit

Threat modeling

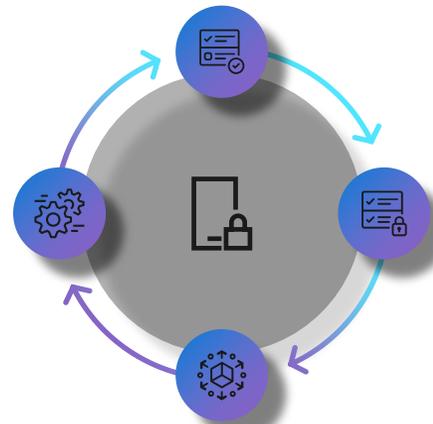
Secure coding standards

Peer review

Operate & monitor

Commit (CI)

Deploy (CD)



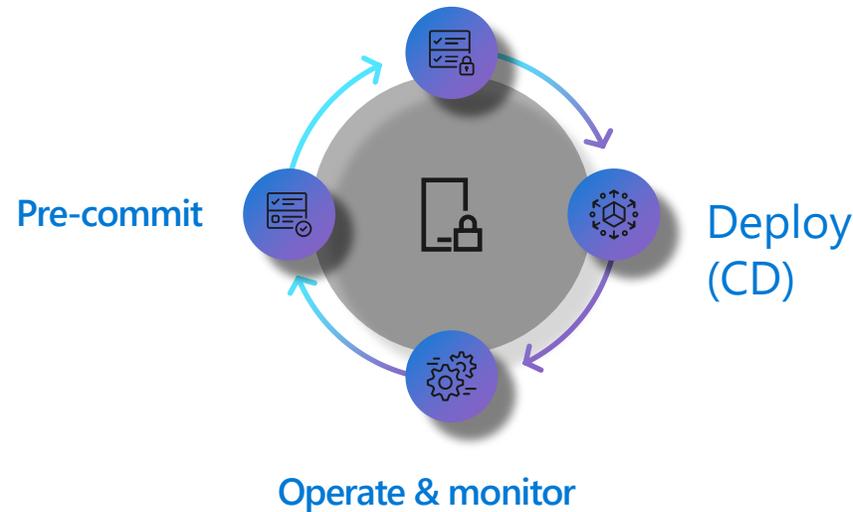
Where security fits in the development lifecycle

Commit (CI)

Static code analysis

Dependency management

Credential scanning



Where security fits in the development lifecycle

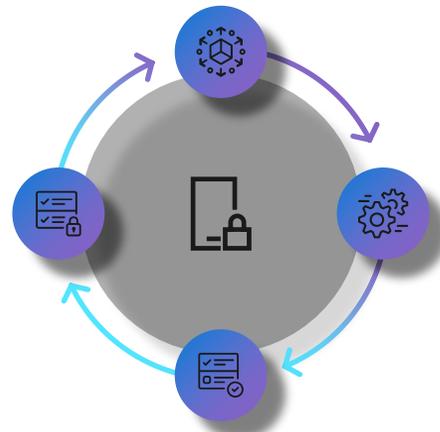
Deploy (CD)

Infra as
code (IaC)
scanning

Cloud
configuration
checks

Security
acceptance
tests

Commit (CI)



Operate &
monitor

Pre-commit

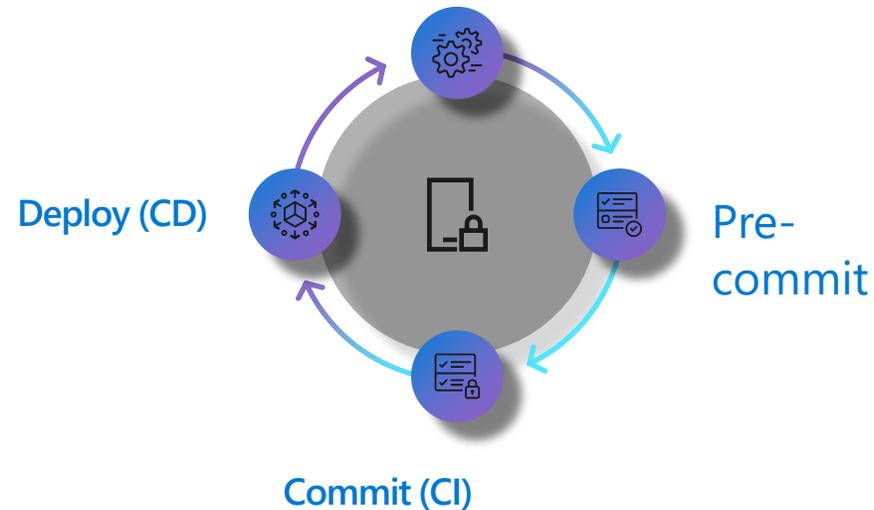
Where security fits in the development lifecycle

Operate & monitor

Continuous
monitoring

Threat
intelligence

Blameless
postmortems

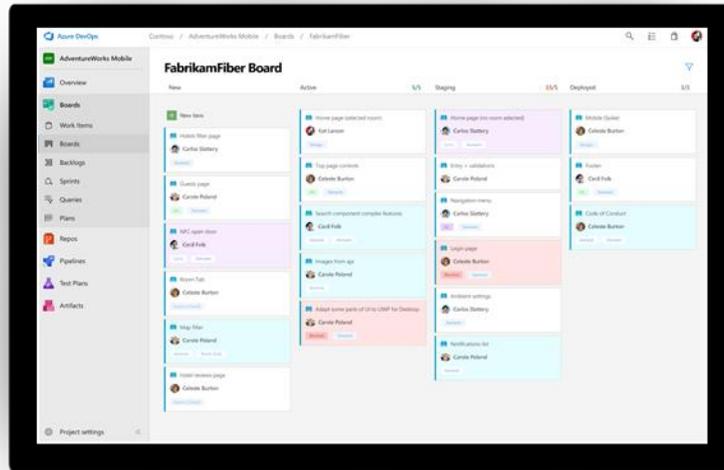


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Microsoft's solutions

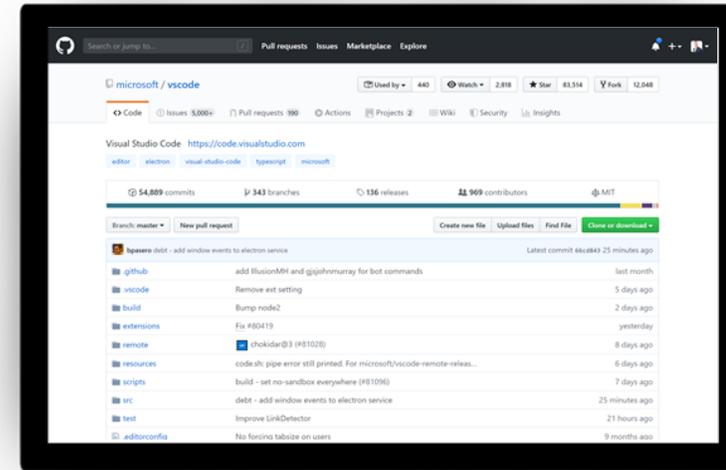
Microsoft, trusted by enterprise development teams for decades

Now committed to the world's largest developer community



Azure DevOps

Empowering 1000s of enterprises
15+ years of developer innovation



GitHub

The home of open source software
40 million+ users

Microsoft provides a unified solution

to help you accelerate and secure code-to-cloud development

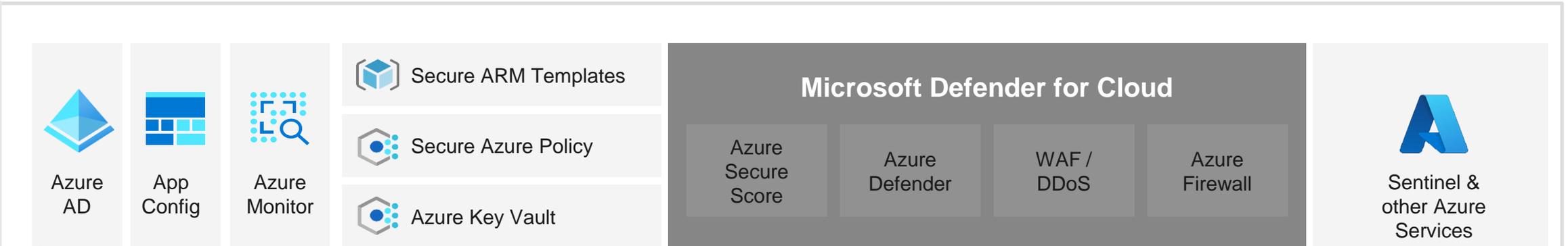


Microsoft provides a unified solution to help you accelerate and secure code-to-cloud development

Dev



SecOps



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Demo

Dev Box & Codespaces
GitHub Advanced Security
DAST

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Demo

Chaos Studio
Defender for Cloud
Sentinel

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This is not school, but we **love** to get grades. Please fill out our questionnaires and leave us your feedback. You may even **win** some cool rewards.

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HVALA!