



Devops

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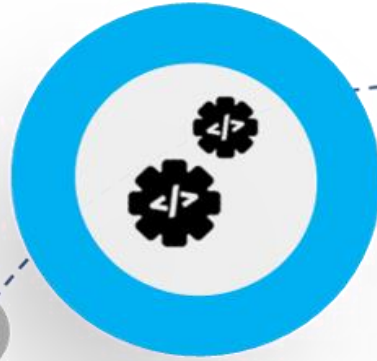
What is DevOps?



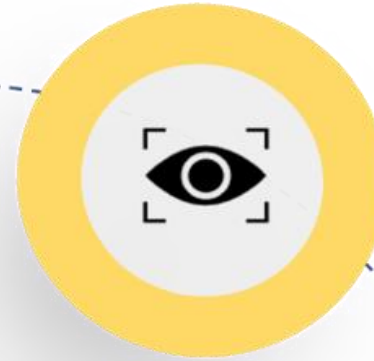
Devops ?!!

- DevOps is the combination of cultural philosophies, practices, and tools that increases an organization's ability to deliver applications and services at high velocity: evolving and improving products at a faster pace than organizations using traditional software development and infrastructure management processes. This speed enables organizations to better serve their customers and compete more effectively in the market.

**Improved software quality
enabled by automation**



**Improved monitoring & quicker
service recovery**



**Quicker turnaround of
change requests**



**Greater synergies between
development, testing, & operations**



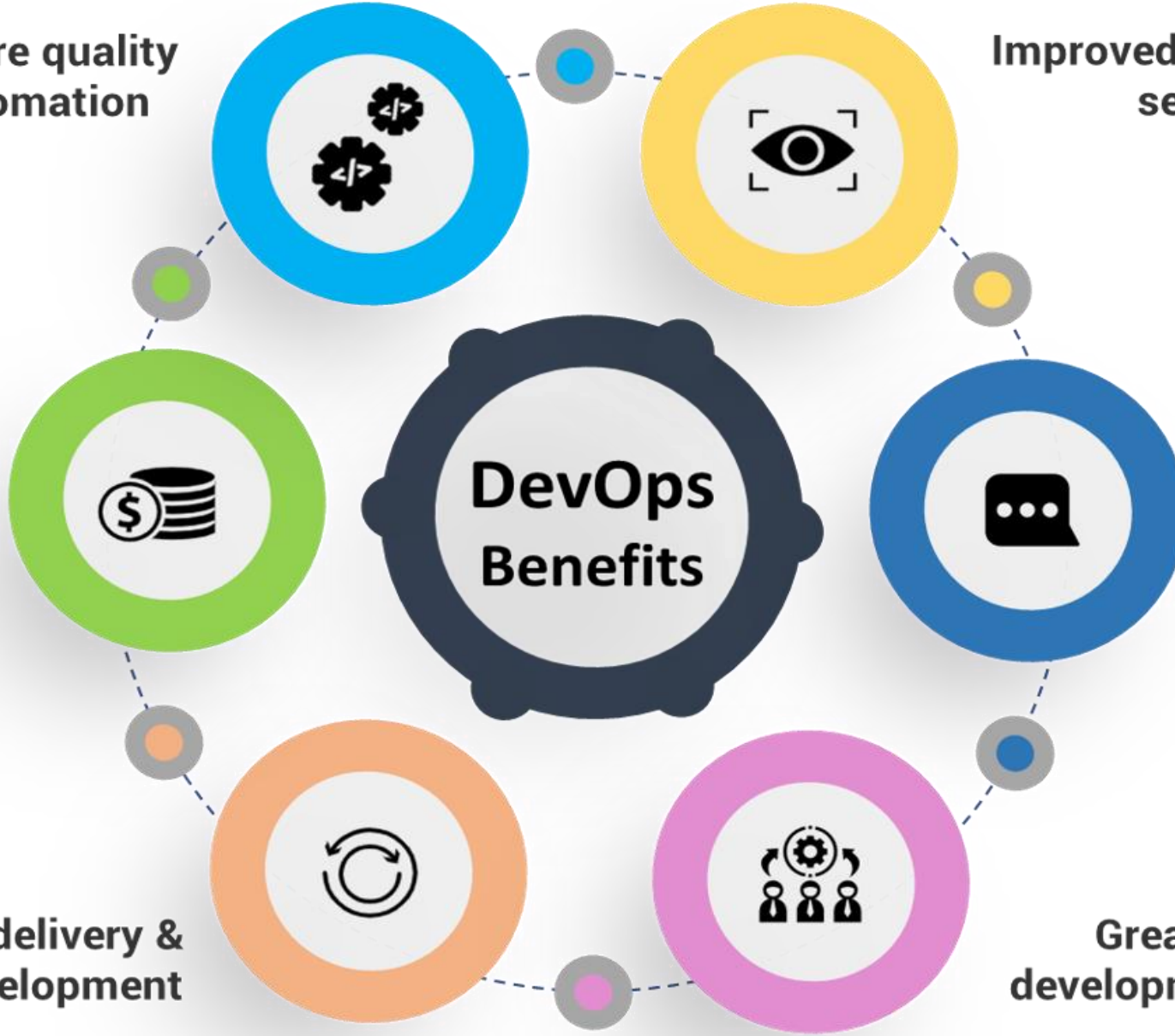
**Continuous delivery &
iterative development**



**Reduced operational
costs**

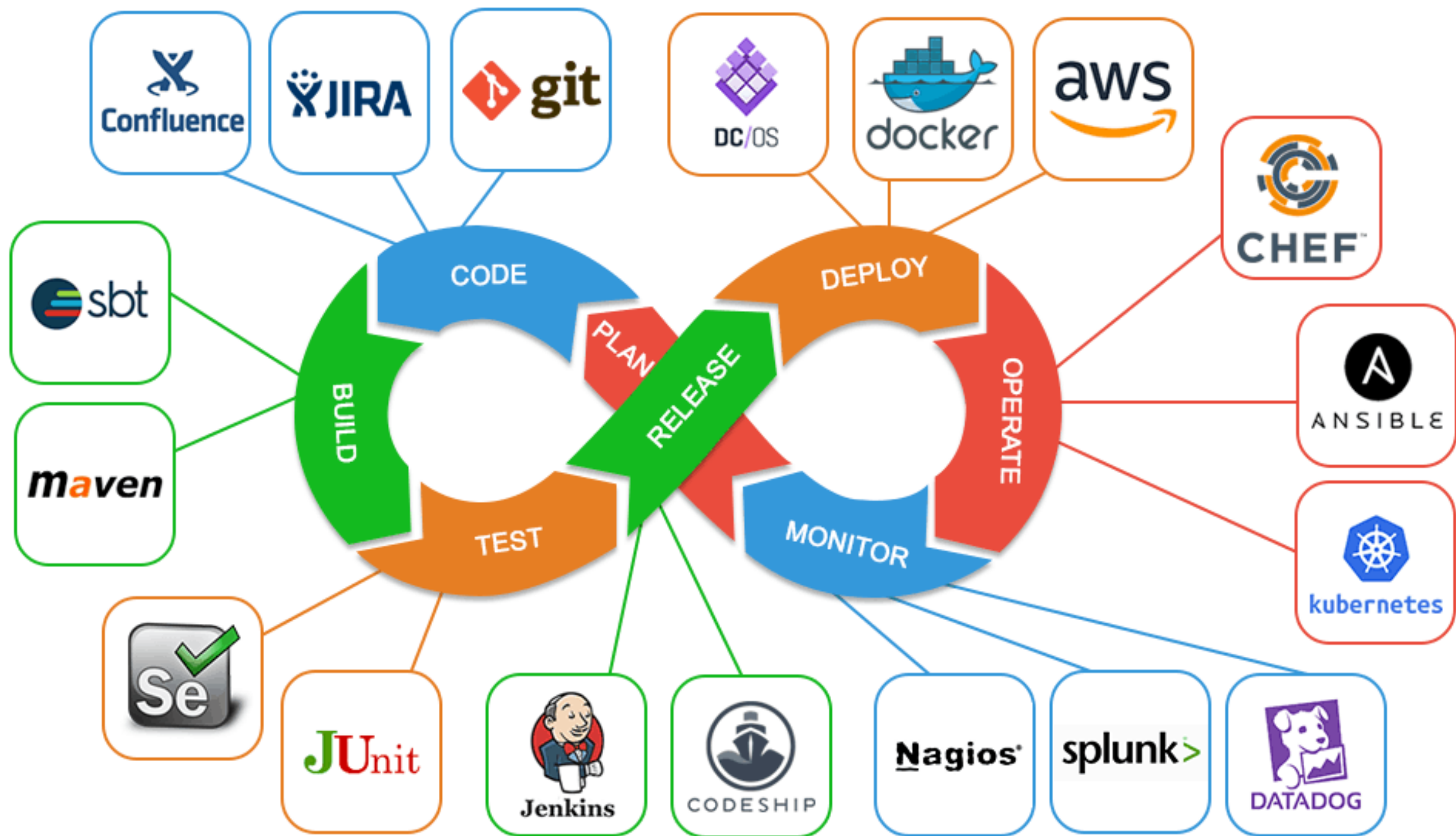


DevOps Benefits



How DevOps Works

- Under a DevOps model, development and operations teams are no longer “siloed.” Sometimes, these two teams are merged into a single team where the engineers work across the entire application lifecycle, from development and test to deployment to operations, and develop a range of skills not limited to a single function.
- In some DevOps models, quality assurance and security teams may also become more tightly integrated with development and operations and throughout the application lifecycle. When security is the focus of everyone on a DevOps team, this is sometimes referred to as DevSecOps.



Benefits of DevOps

- **Speed:** Move at high velocity so you can innovate for customers faster, adapt to changing markets better, and grow more efficient.
- **Rapid Delivery:** Increase the frequency and pace of releases so you can innovate and improve your product faster. The quicker you can release new features and fix bugs
- **Reliability:** Ensure the quality of application updates and infrastructure changes so you can reliably deliver at a more rapid pace while maintaining a positive experience for end users.
- **Scale:** Operate and manage your infrastructure and development processes at scale. Automation and consistency help you manage complex or changing systems efficiently

Business Benefits of DevOps



01



Facebook developers do most of their work in independent, small changes that are released frequently, rather than planning them in big projects

02



Code releases twice a day for bug fixes and internal code. New production code releases once or twice per week after running through automated regression testing.

03



Release engineers assess the risk of changes based on the size of the change, the amount of discussion done in code reviews and quality rating of the developer "push karma".

04



A tool called "Gatekeeper" controls which features are available to which customers to support dark launching, and all code is released incrementally –to staging, then a subset of users, and so on. Facebook uses Chef in its backend IT as well as in its infrastructure.

Why DevOps Matters

- Companies interact with their customers through software delivered as online services or applications and on all sorts of devices. They also use software to increase operational efficiencies by transforming every part of the value chain, such as logistics, communications, and operations.
- In a similar way that physical goods companies transformed how they design, build, and deliver products using industrial automation throughout the 20th century, companies in today's world must transform how they build and deliver software.



Third Skill

First Skill

Second Skill

Conclusion

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Business Benefits of DevOps



