



Best Practices for DevSecOps in Agile development

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My background

- Full stack developer
- Agile development
- Digital transformation



Customer story: 🌊 Waterfall to Agile 🧑🏿

- Iterative development
- Test early and often
- Frequent releases
- Learning influences backlog



Developer workflows changed

Yesterday

Sporadic Deployment
(Months)



Siloed Devs and Ops



Rigid Dev Model



Limited Supply Chain



Today

Continuous Deployment
(Hours)



DevOps



Agile Dev Model



Vast & Opaque Supply Chain



Things are going really well!



But then 🤯



Delays production

- Backlog with security issues
- Lost context with time
- Re-test app functionality

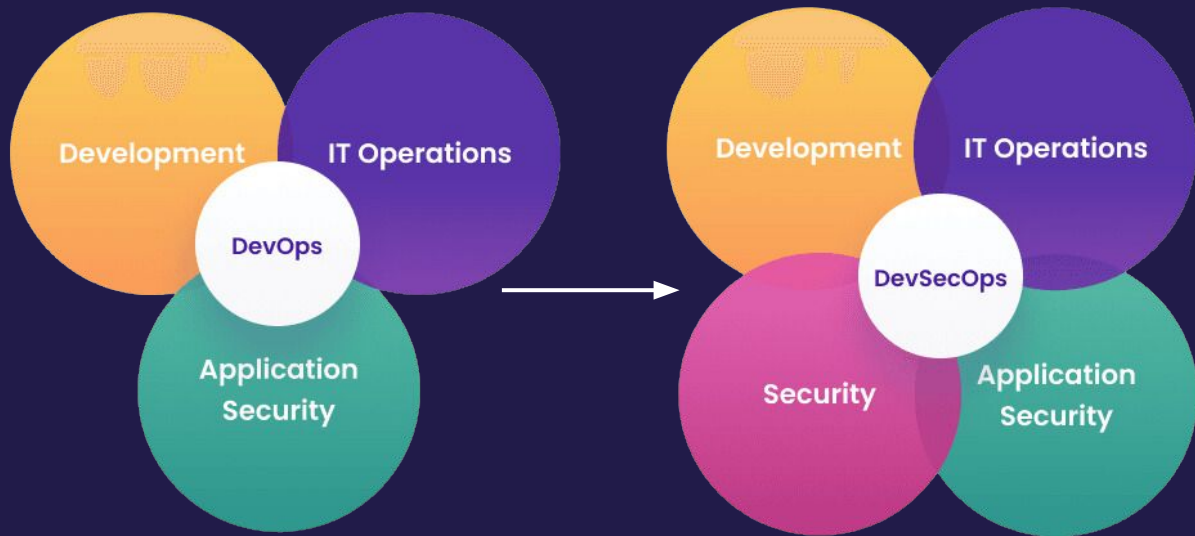


Friction between teams

- Silos
- Knowledge gaps
- Lost business context



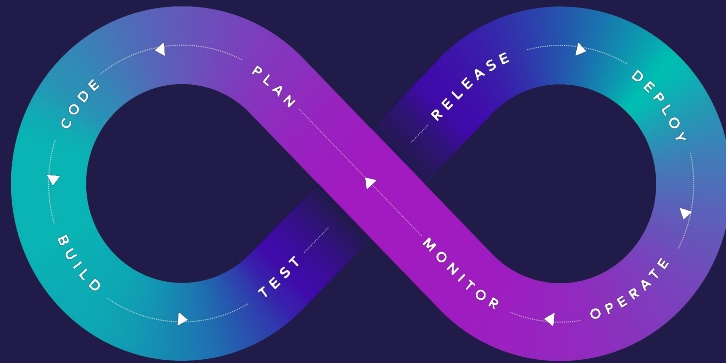
Adopting DevSecOps



Best practices for DevSecOps in Agile teams

1. Integrate early in development process

Week 1



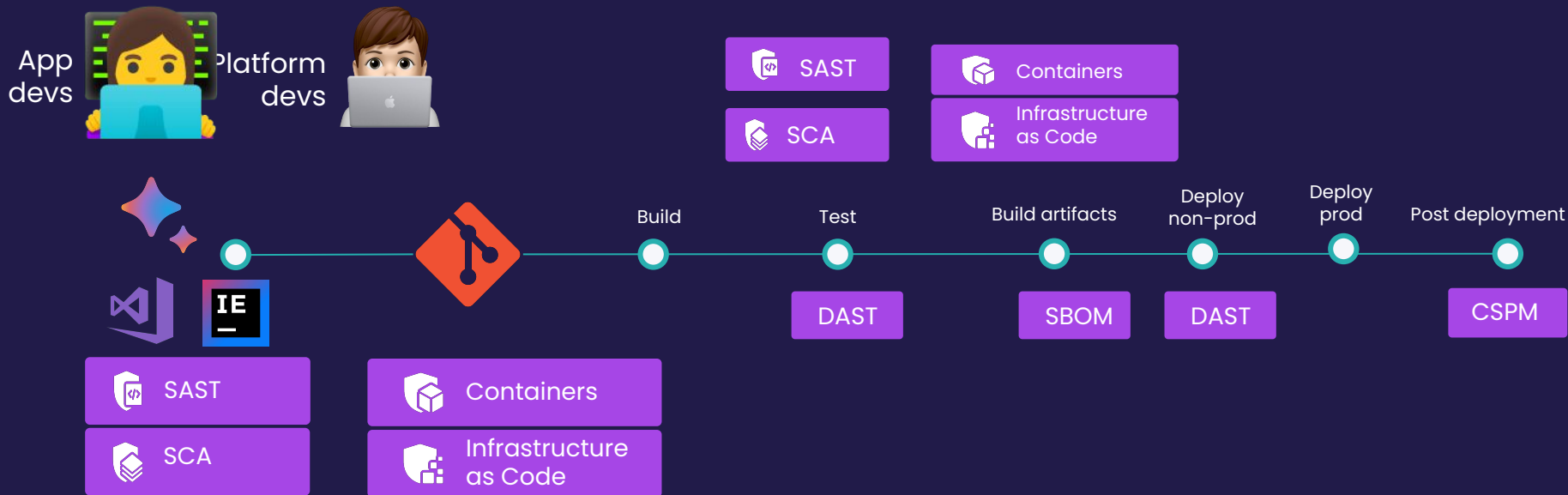
- 1) Choose techstack
- 2) Setup CI/CD
- 3) Automate security scans

Integrate early in development process

All your
developers

Throughout
their code

In their natural
workflow



Automation

- Automated checks in CI/CD
- Policy as Code
- Templates



2. Accountability

Identify Security champions

- Developer with passion for security
- Bake security processes in dev workflow
- Ensure decisions are made with security in mind



Security Champion – Activities

- Knowledge sharing across teams
- Periodic check-ins with Security teams
- Security education for devs



3. Measure Success

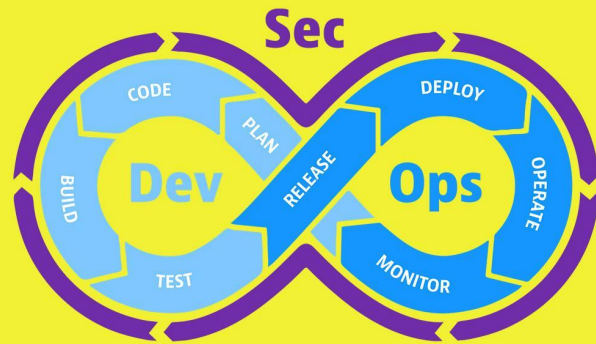
Success looks different for each org

- Number of high severity vulns in application
- Time taken to resolve (MTTD & MTTR)
- % Reduce time spent on Audit
- % Reduce number of vulnerabilities in production



Best practices for DevSecOps in Agile teams

- Integrate early in the development process
 - Early in roadmap
 - Shift Left
- Accountability
 - Automation
 - Identify Security champion
- Measure success
 - KPIs
 - Rinse & Repeat



Thank you!