Continuous Delivery

As described by Jez Humble

What is Continuous Delivery?

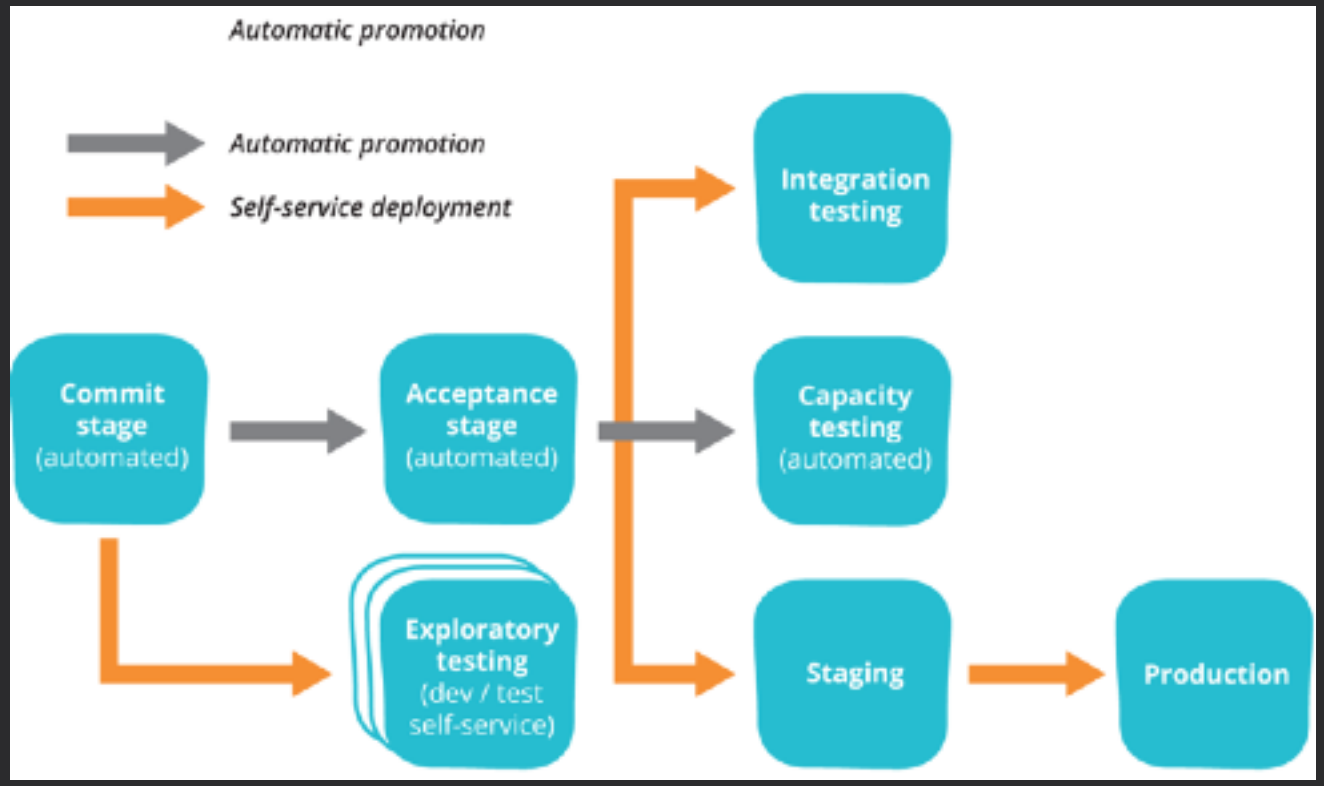
Continuous Delivery is the ability to get changes of all types (features, configuration, fixes, experiments, et .) into production safely, quickly, and in a sustainable way. The goal is to make deployments routine affairs that can be performed on demand.

Patterns for Low-Risk Releases:

- Low-risk Releases are Incremental
- Decouple Deployment and Release
- Focus on Reducing Batch Size
- Optimize for Resilience

Deployment Pipeline Recommendations:

- Only build packages once
- Deploy the same way to every environment
- Smoke test your deployments
- Keep your environments similar



Foundations:

Continuous delivery rests on three foundations: comprehensive configuration management, continuous integration, and continuous testing.

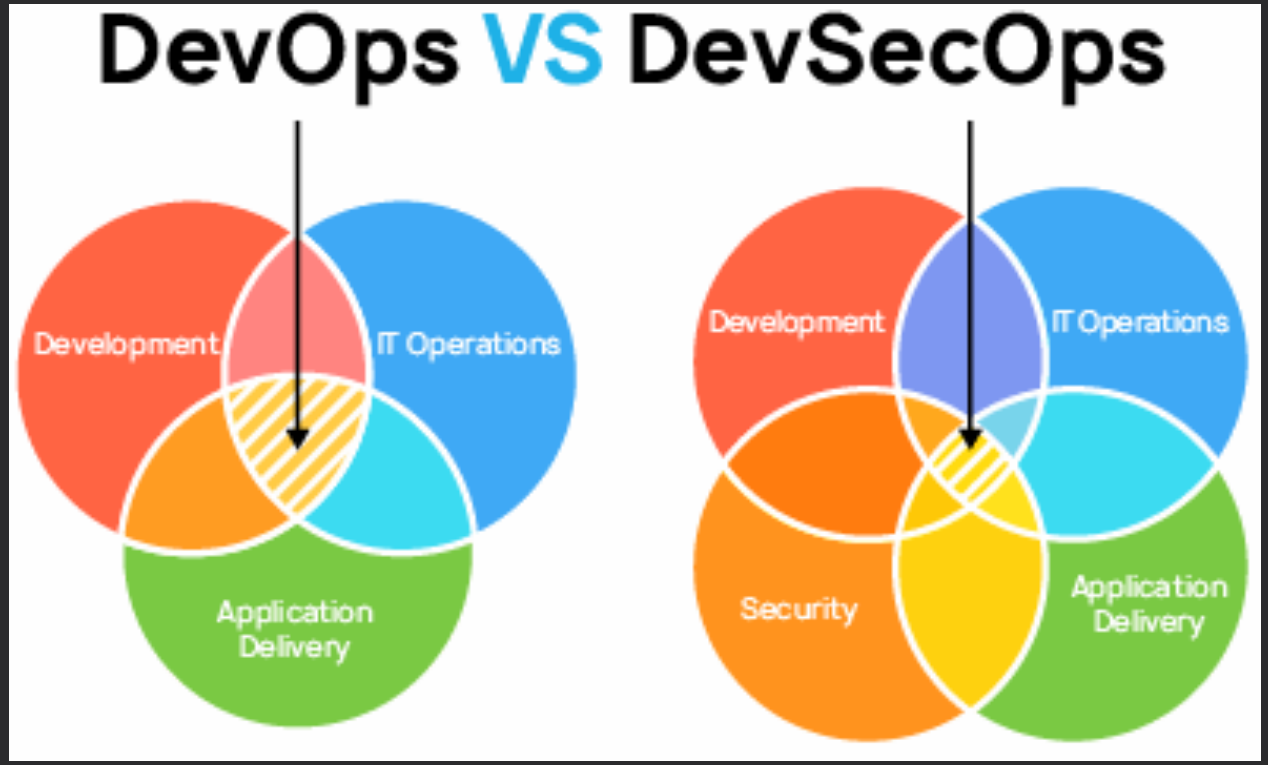
DevSecOps

What is DevSecOps?

DevSecOps is an approach to culture, automation, and platform design that integrates development, operations, and security as a shared responsibility throughout a product's lifecycle.

Build security into everything:

- Standardize and automate the environment
- Centralize user identity and access control capabilities
- Isolate containers running microservices from each other and the network
- Encrypt data between apps and services
- Introduce secure API gateways
- Automate security testing in the CI process
- Add automated tests for security capabilities into the acceptance test process
- Automate security updates, such as patches for known vulnerabilities
- Automate system and service configuration management capabilities



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