

CLARUSWAY
WAY TO REINVENT YOURSELF

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What is DevOps



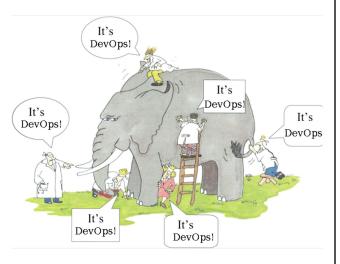


What is DevOps

What DevOps is Not...

- a tool
- a role
- a team
- something that can be purchased or simply switched on

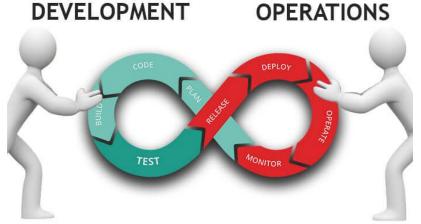




What is DevOps



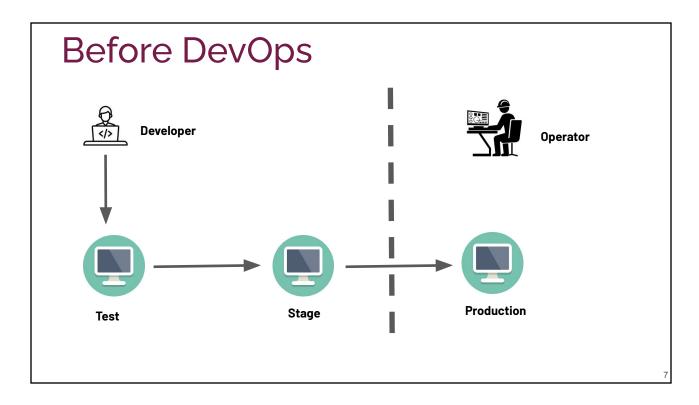




What is DevOps

- DevOps is a set of practices that combines software development
 (Dev) and IT operations (Ops).
- It aims to shorten the software development life cycle and provide continuous delivery with high software quality.
- DevOps is complementary with Agile software development; several DevOps aspects came from the Agile methodology.
- DevOps addressed the gap between Developers and Operations.





What is DevOps

Roles;









- Project Manager
- Software Architects
- Developers
- Testers/QA, etc.



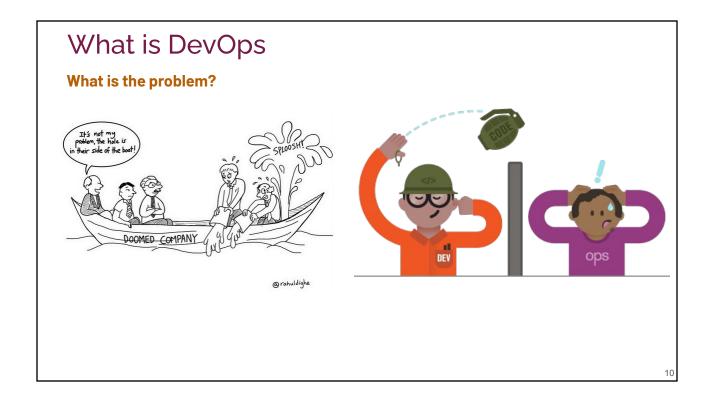




OPERATION TEAM

- System Administrators
- Database Administrators
- Release Engineers
- Network Engineers
- Security Professionals, etc

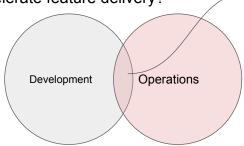
What is DevOps Responsibilities; we want change! Wall of Confusion DEVELOPMENT OPERATIONS



What is DevOps

Breaking the Silos: Communication, Collaboration, Integration

- How can dev help system stability?
- How can ops help accelerate feature delivery?



"We can build cross-functional teams around "knowledge overlaps" – people with experience on both sides and "Ops Devs""

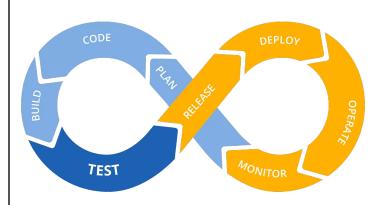
1

Collaborati

Integration

Introduction to DevOps

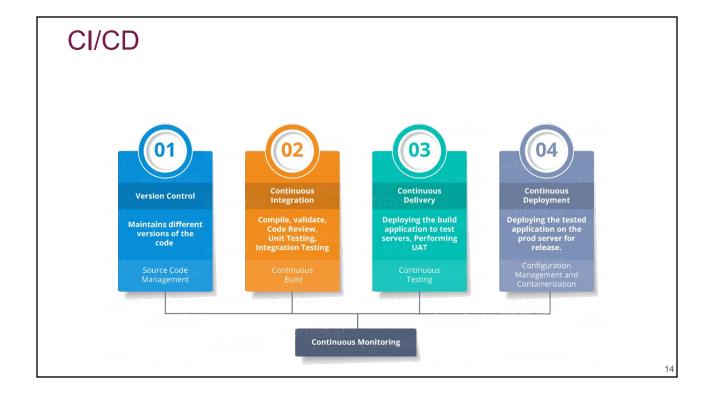
What is DevOps?

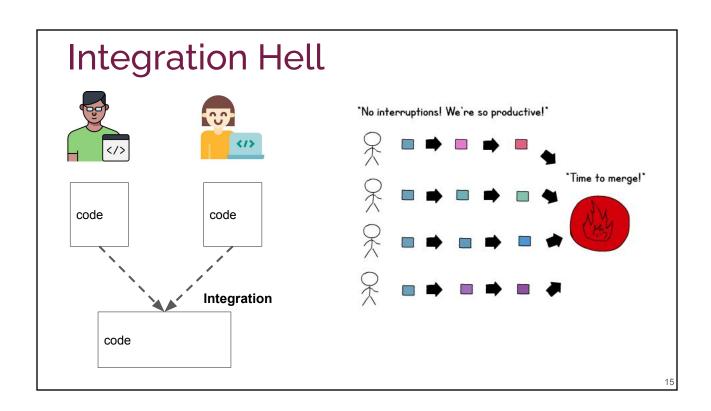


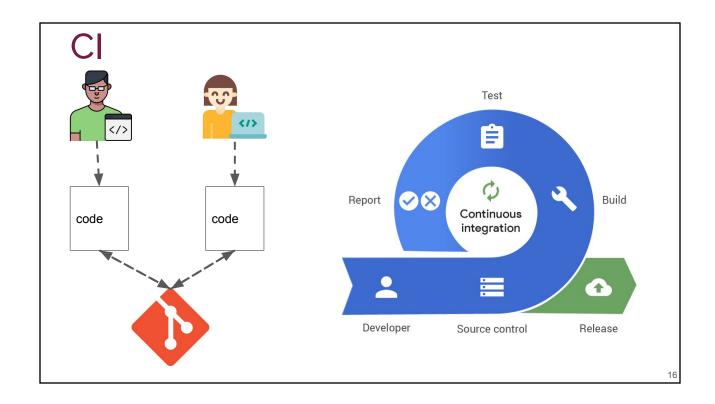
DevOps is a software development approach which involves continuous development, continuous testing, continuous integration, continuous deployment, and continuous monitoring of the software throughout its development lifecycle

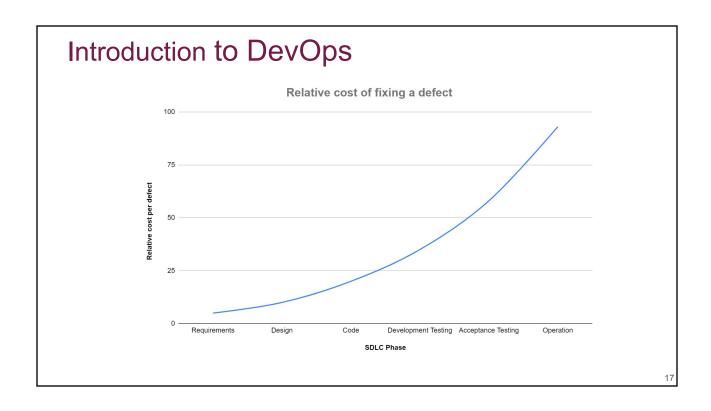
Continuous Integration/ Continuous Delivery (CI/CD)

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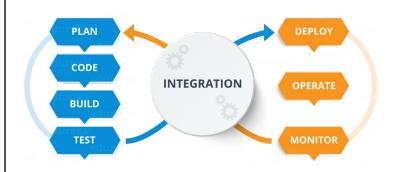








What is Continuous Integration?



Continuous integration is a software development method where members of the team can integrate their work at least once a day. In this method, every integration is checked by an automated build to search the error.

Traditional way

Programmer A

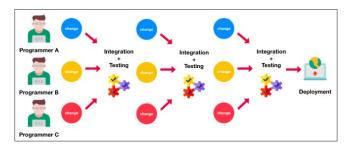
Programmer B

Code Base

QA Testing

Deployment

With CI &CD

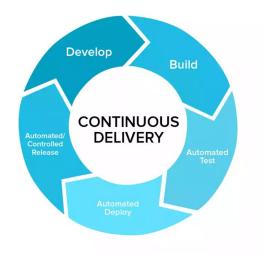


Introduction to DevOps

With CI vs Without CI

| Development without CI | Development with CI |
|--------------------------------|--|
| Lots of Bugs | Fewer bugs |
| Infrequent and slow releases | Regular working releases |
| Difficult integration | Easy and Effective Integration |
| Late bug finding(days,weeks) | Early bug finding(minutes,hours) |
| Issue raised are harder to fix | Find and fix problems faster and more efficiently. |
| Poor project visibility | Better project visibility |

What is Continuous Delivery?

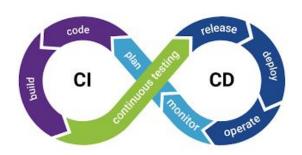


Continuous delivery (CD) is a software engineering approach in which teams produce software in short cycles, ensuring that the software can be reliably released at any time and, following a pipeline through a "production-like environment", without doing so manually.

2

Introduction to DevOps

What is CI/CD?

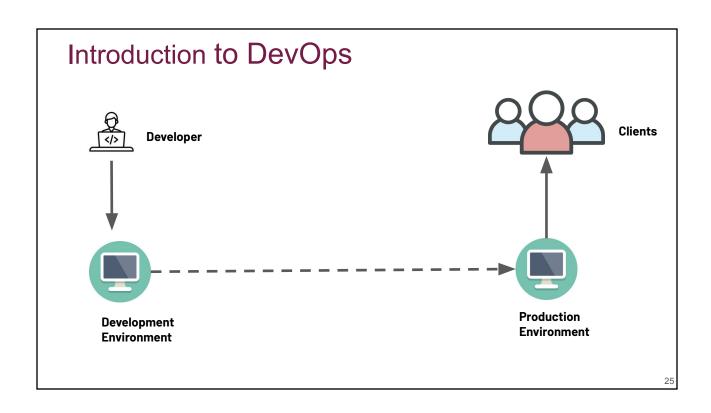


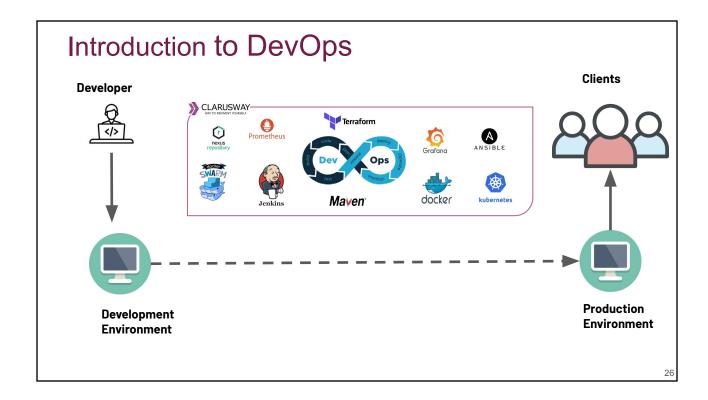
In software engineering, **CI/CD** is the combined practices of continuous integration **(CI)** and (more often) continuous delivery or (less often) continuous deployment **(CD)**.

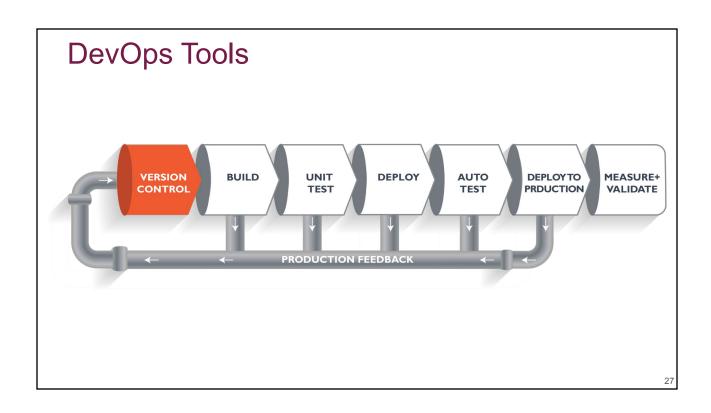
Introduction to DevOps Continuous Delivery vs Continuous Deployment Continuous Integration Deploy to sulo Unit Tests auto Continuous Delivery Deploy to stage Acceptance Tests Unit Tests auto Build auto Continuous Deployment Deploy to stage Acceptance auto Unit Tests auto Build

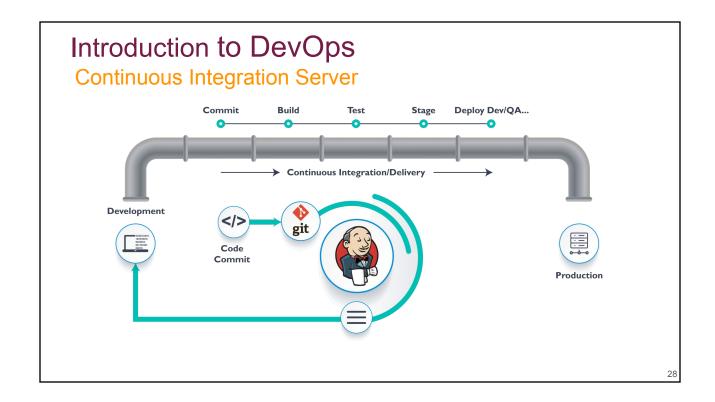
DevOps Tools

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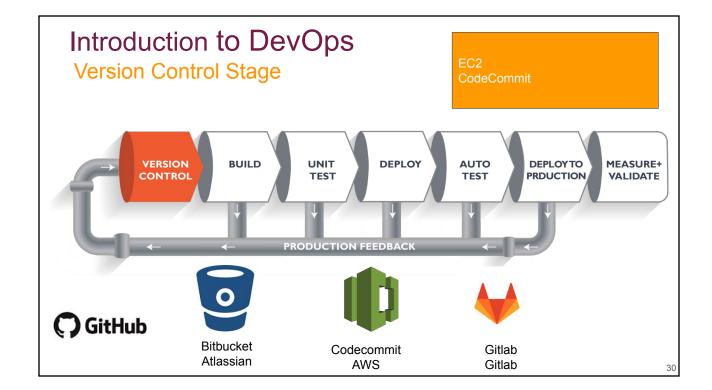
Continuous Integration Server

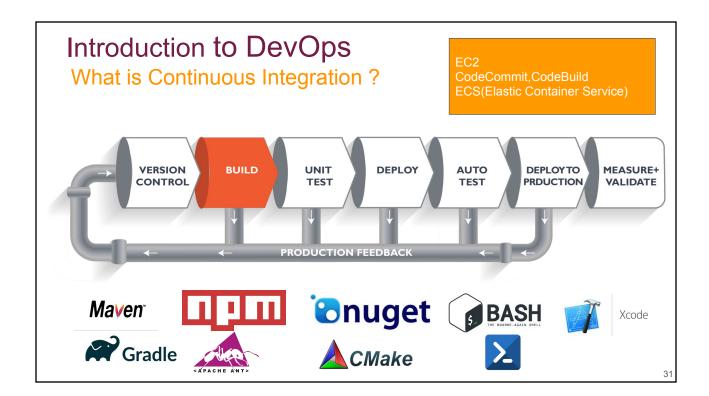


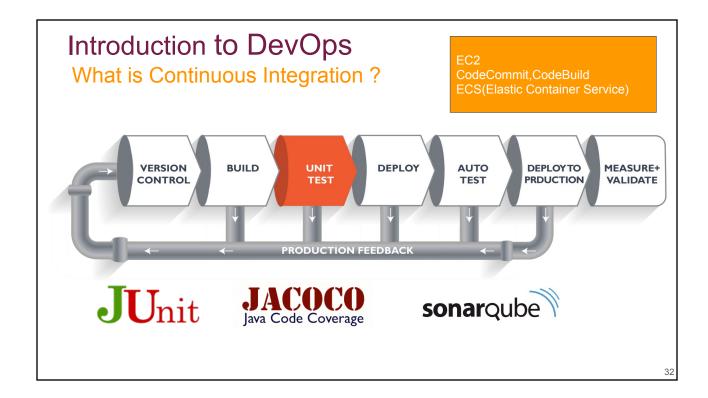


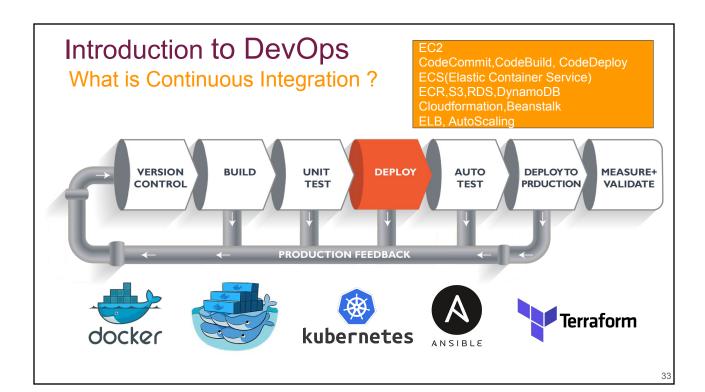


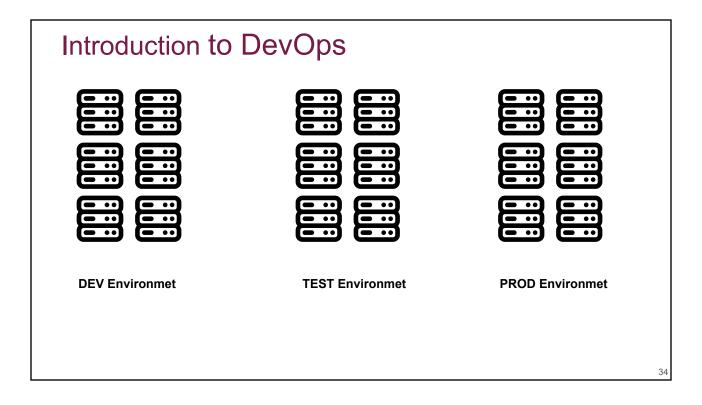


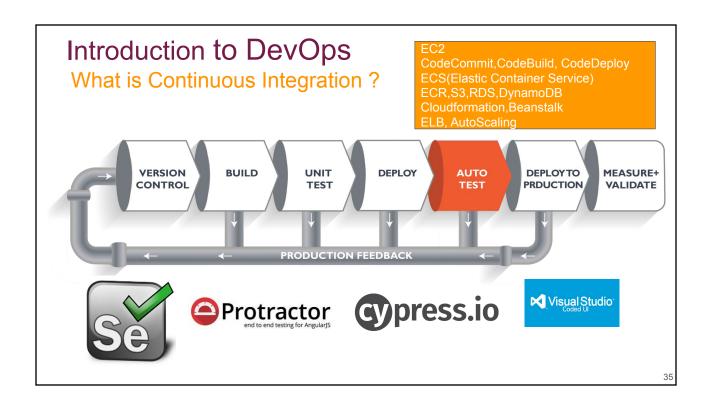


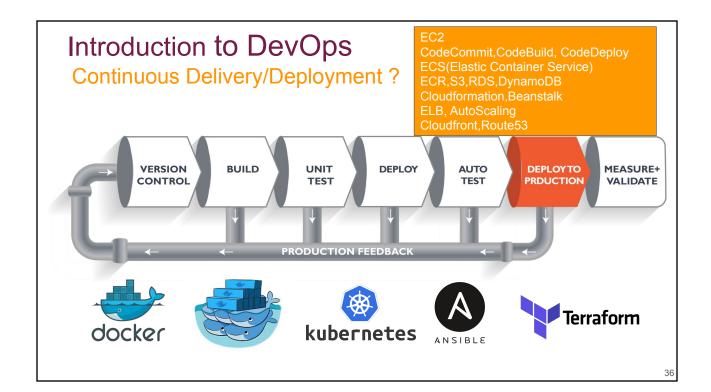


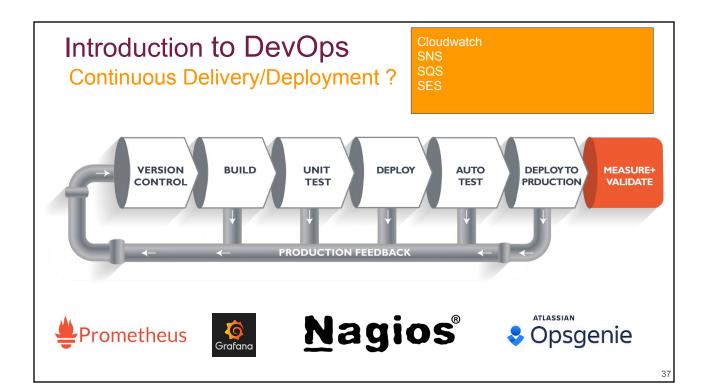












THANKS
Any questions?