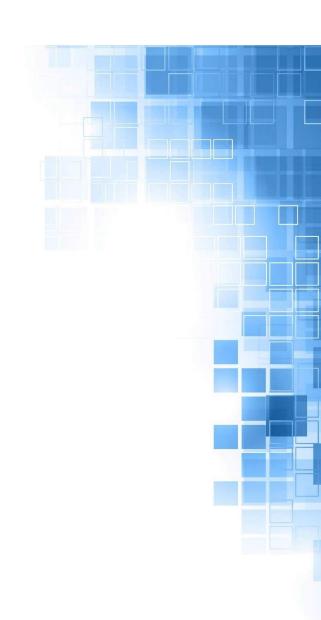
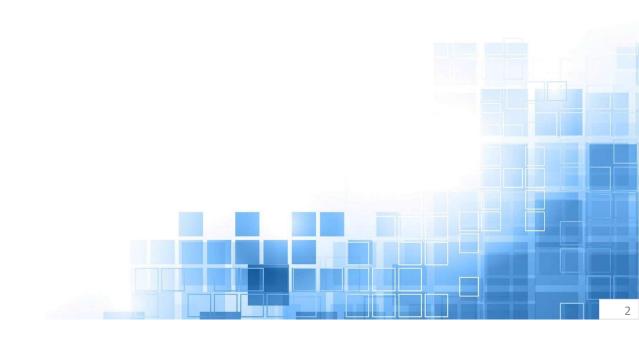
nagarro

DevOps

Pre Session



WHAT IS DEVELOPMENT PROCESS?



Development Process

Software Development Process in nutshell

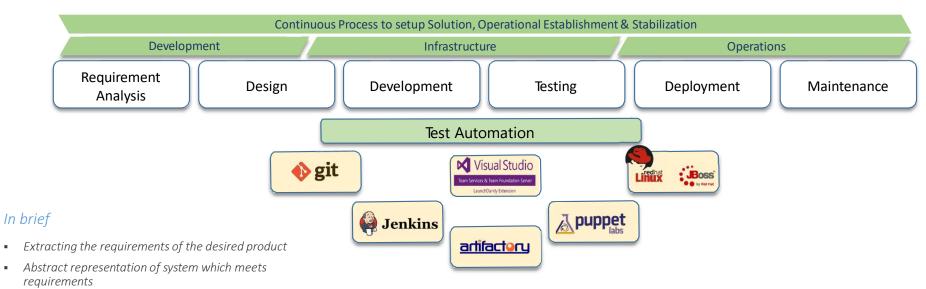
Development as a part of software engineering

Testing of code

Deployment of code

Maintenance or support

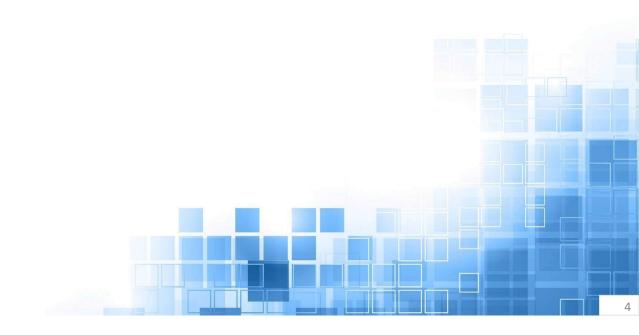




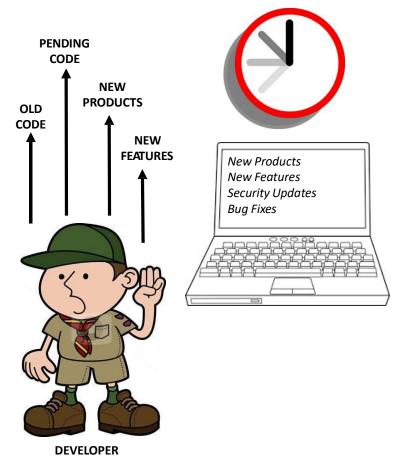
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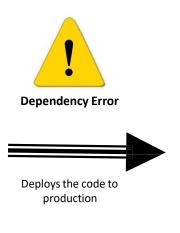
3

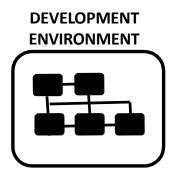
LET'S TALK ABOUT REAL PROBLEMS NOW..

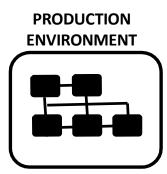


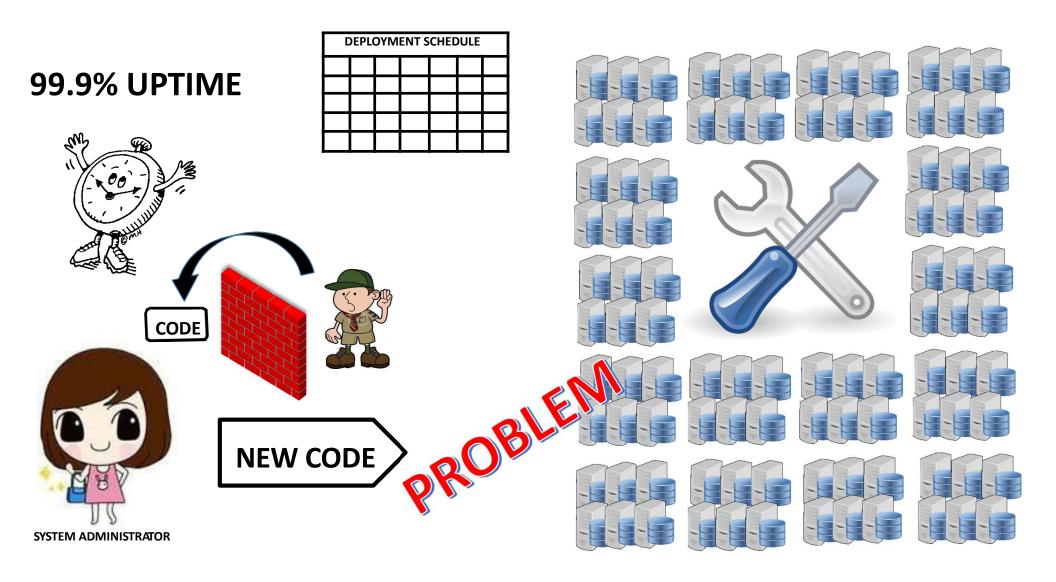
Time to Market







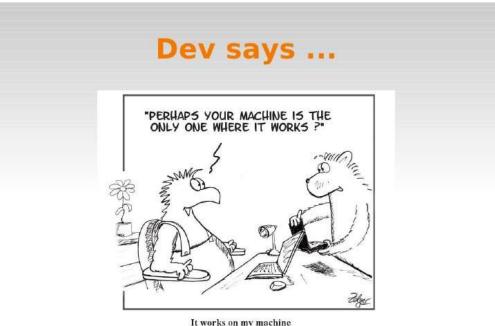






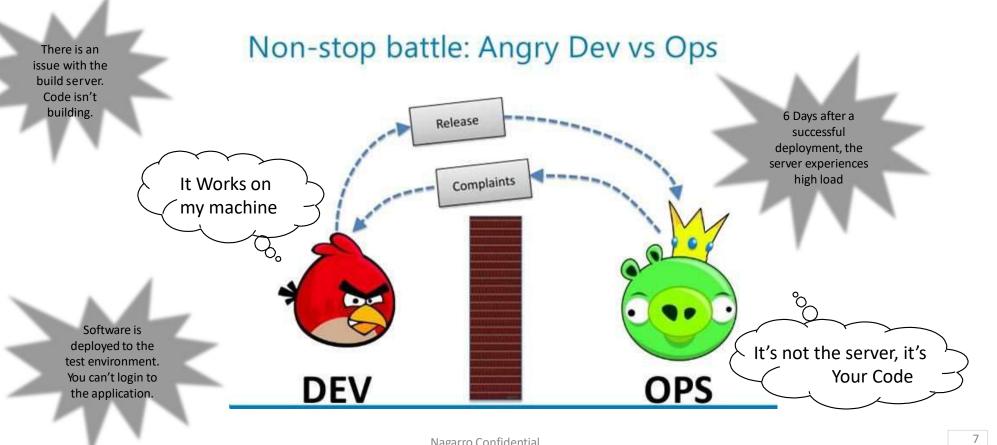
Have you ever been in a situation like this before?

Have you said this before to anyone?



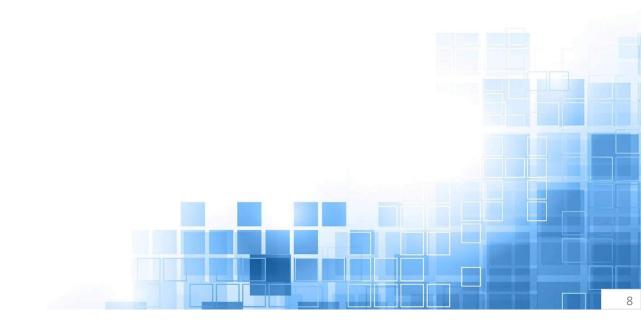
Developement vs. Operations

Battle between what you have developed on your machine and what is running in production?



SO HOW TO WORK WITH EACH OTHER..?

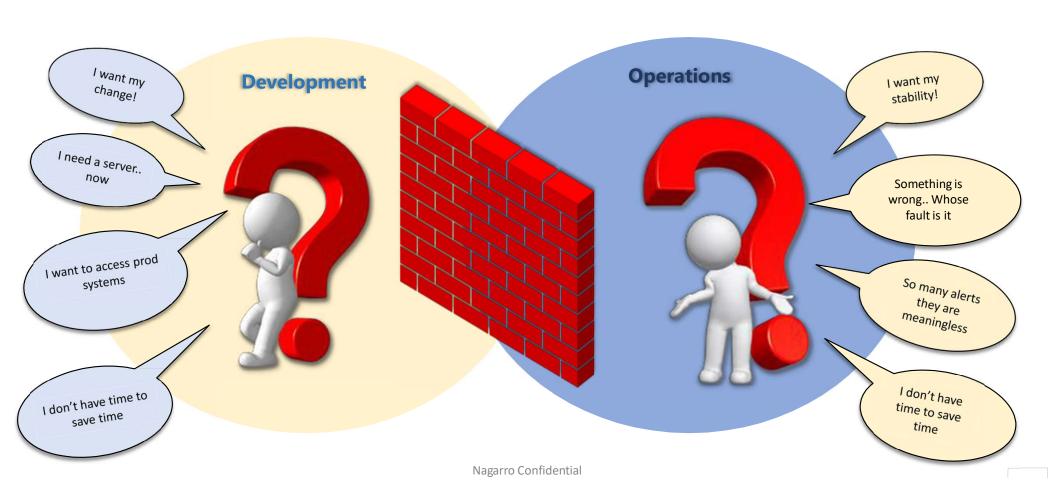
Defining roles...



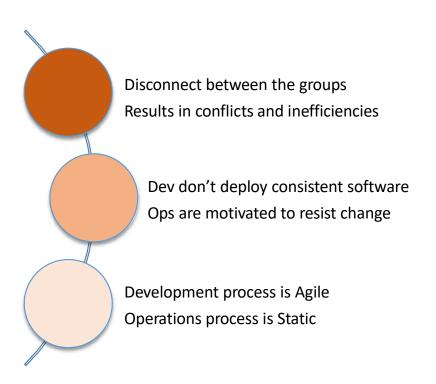


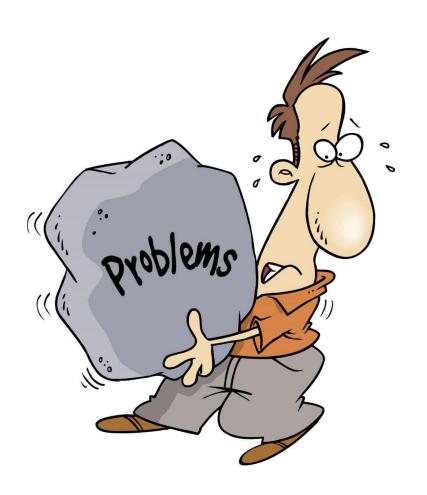
Wall of Confusion

Who will solve our problem then?

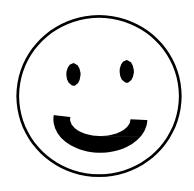


And the Problems...





What can be done to help Mark and Ellie work better?



Dev Ops

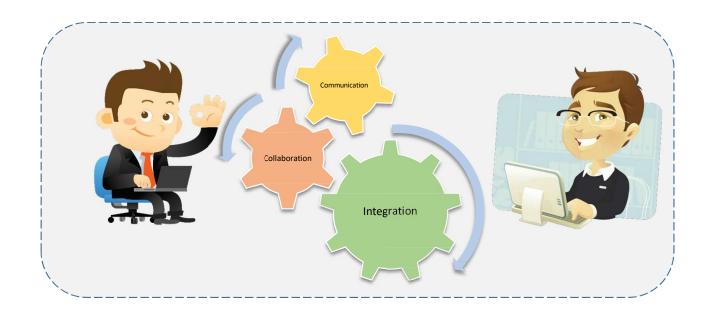


- Worked better together?
- Thought more alike?
- Broke down silos?
- Shared responsibilities?

What is DevOps

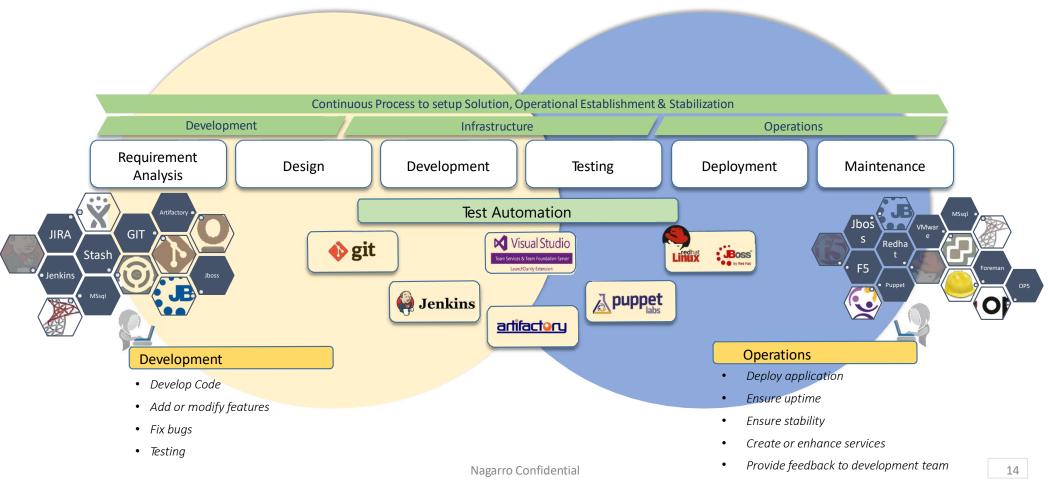
By Definition

DevOps is a culture and set of practices that emphasize close collaboration between software Development and IT Operations staff through all phases of software delivery process to enhance productivity and quality of the overall system.



DevOps

Bridging the gap between development and operations



IS IT A TOOL?



Well!!
It's not just about the tools, it's about the CULTURE!



DevOps Principles



Accelerate collaboration And communication

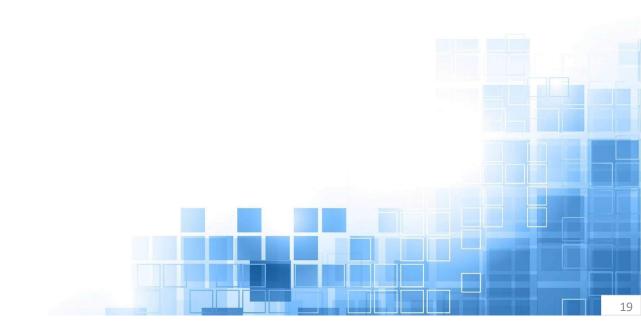






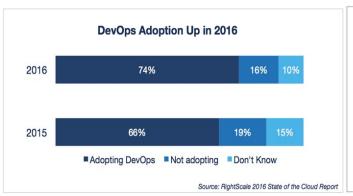
18

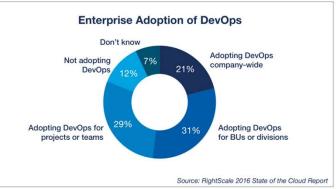
IS THIS A NEW TERM?

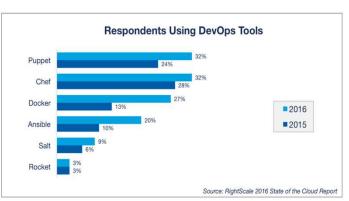


DevOps Trends -

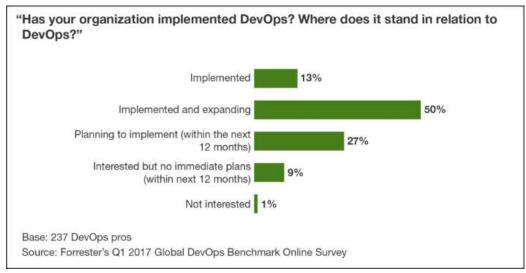
DevOps Adoption and Tools usage







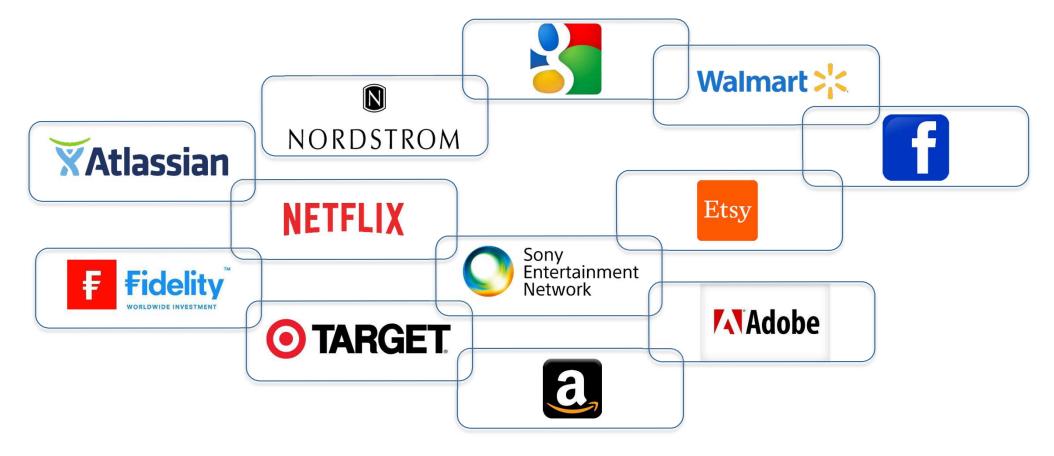
Source: Rightscale - 2016



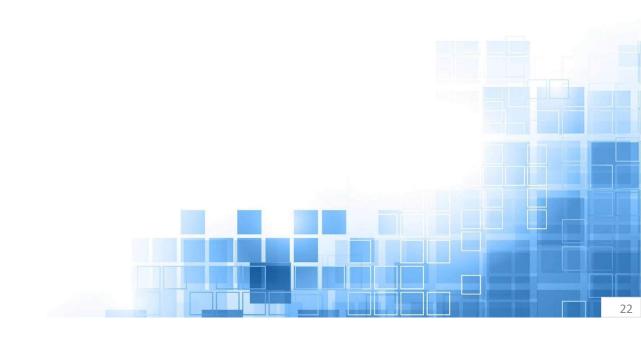
Source: Forrester Research 2017

Who all are using DevOps?

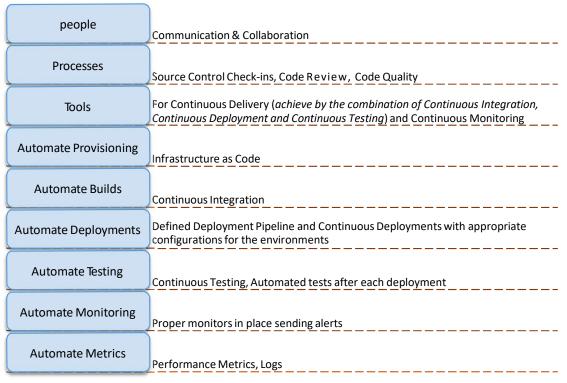
Few market leaders...

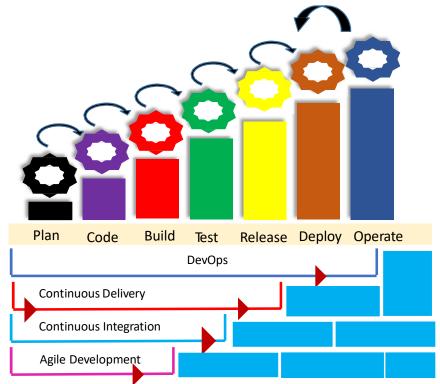


HOW IT WORKS?



DevOps Approach
DevOps Implementation means believing in agile mantra "People over Process over Tools". With the right people, establish the right process and choose the right tools to deliver the end results.





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How does DevOps work anyways?

... is a way of thinking.



Communication

- o Talk is cheap
- Involve each other in core processes and decisions
- Ask questions
- Invite everyone to stand-ups and retrospectives



What can be automated?

- o Builds
- Deployments
- o Testing
- Monitoring
- Self-healing
- System rollouts
- System configuration

Metrics

- Capture, learn, improve
- o Assists in:
- Capacity Planning
- Trend Analysis
- Fault Finding
- Simple as saving Tomcat access info
- Plotted on a graph overtime

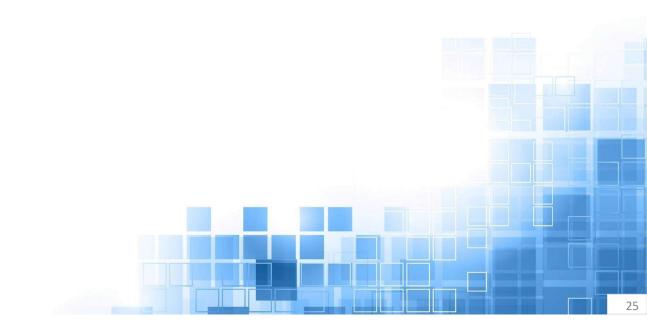




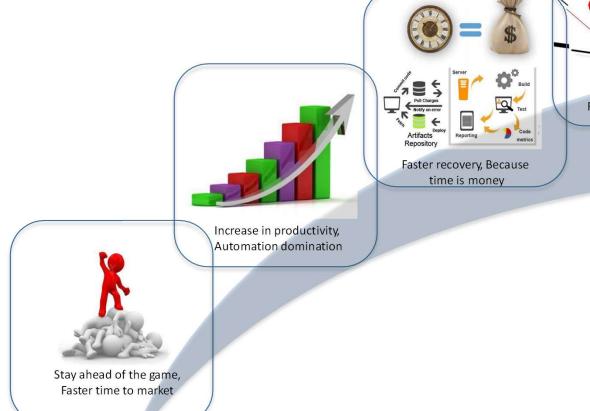
Sharing

- Share Ideas
- Share Metrics
- Ops: Give devs shell access
- Devs: see what technology can be leveraged

BENEFITS?



DevOps Benefits







Success

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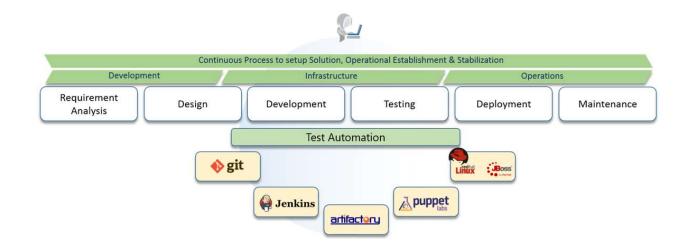
Achieving DevOps...



How to achieve DevOps

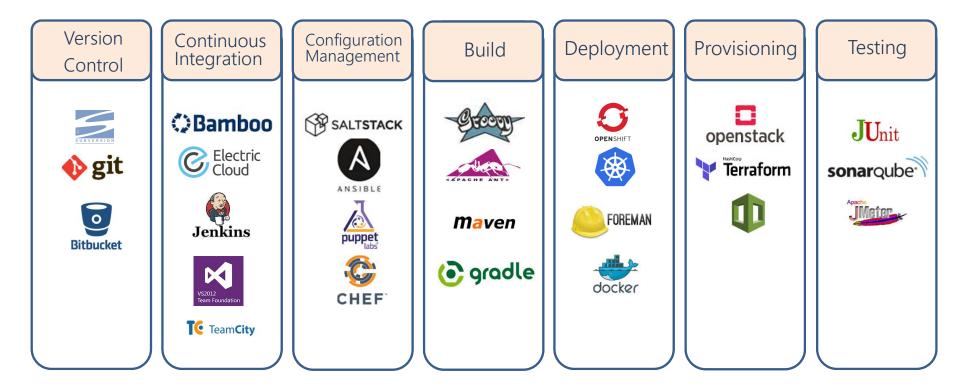
DevOps as Process

- 1. Version control management
- 2. Continuous build
- 3. Continuous integration
- 4. Continuous delivery
- 5. Continuous deployment
- 6. Automating entire chain tool chain



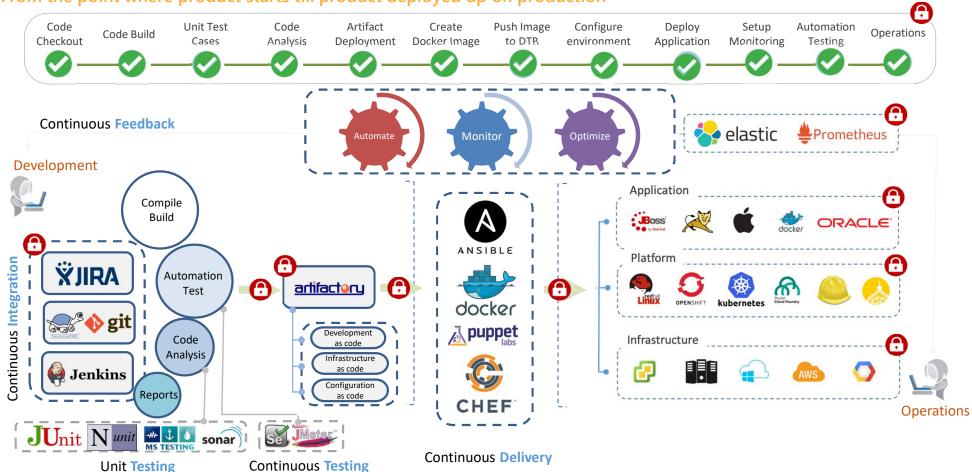
Technology spectrum

What all Tools and technology used here to achieve DevOps



Product Build and Release Lifecycle

From the point where product starts till product deployed up on production



Thank You!

