



RED HAT
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DevOps Demystified

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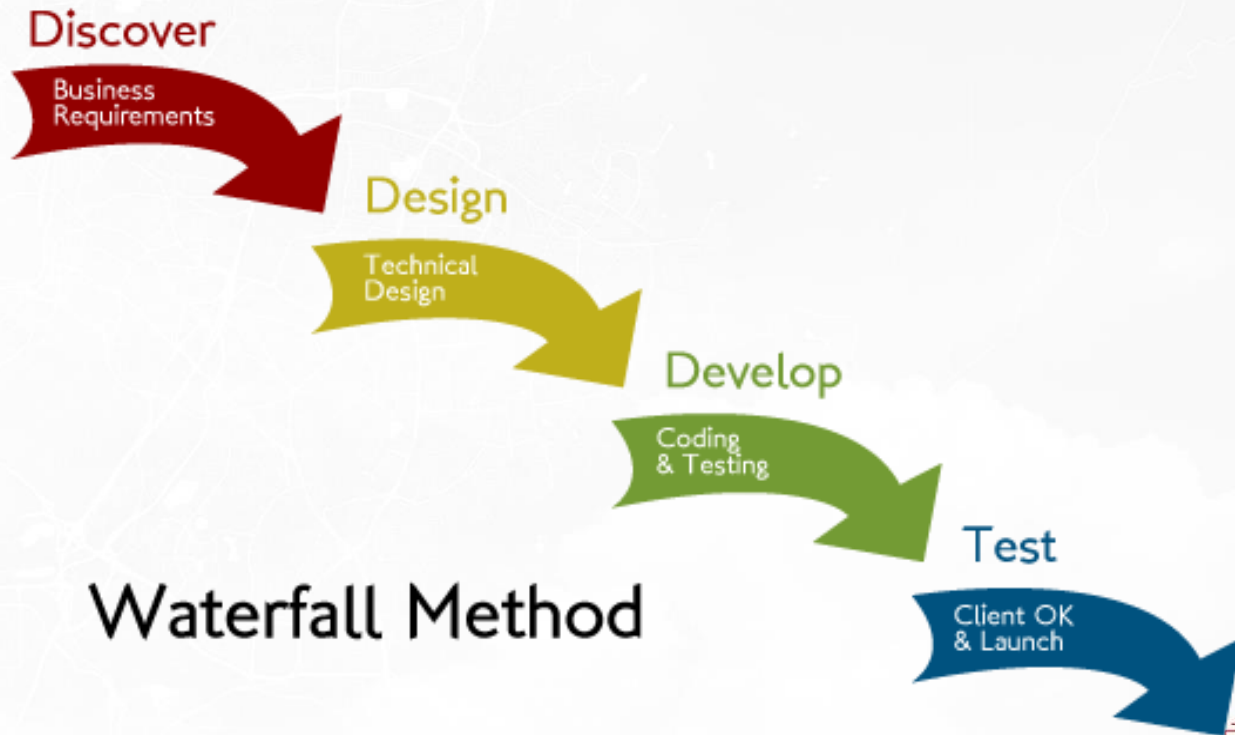
Today's Agenda

- Life Before DevOps
- DevOps, Basic Concepts
- IT Perspective
- DevOps Considerations
- Conclusion

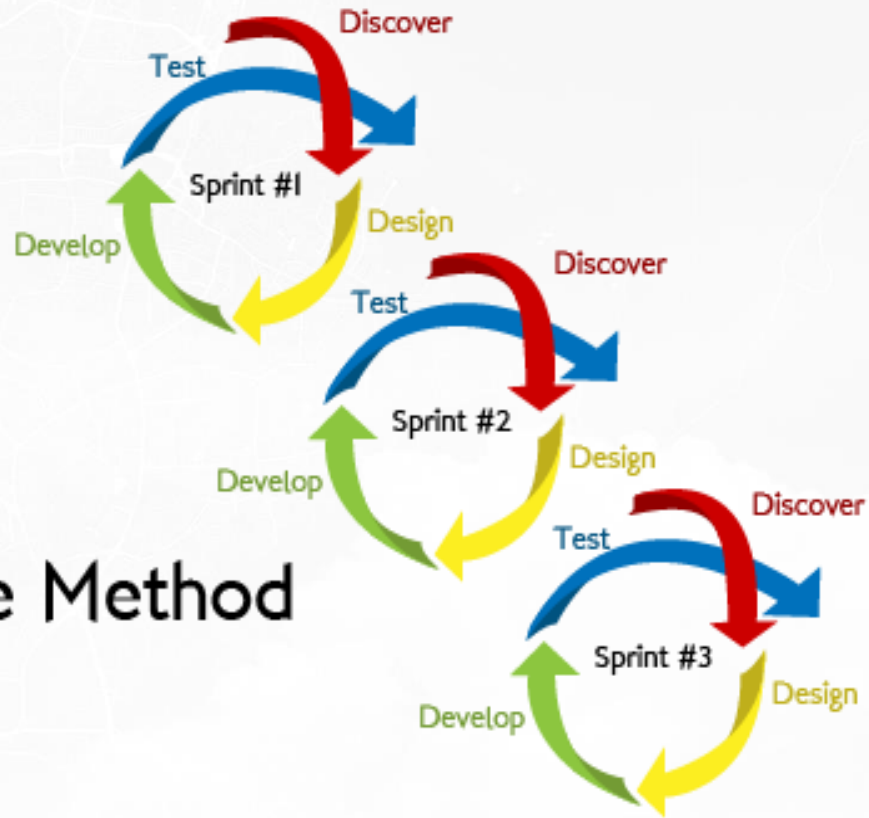
Life Before DevOps

Developers

Waterfall Methods



Agile Methods



Agile Method

Waterfall Vs Agile

Metric	Waterfall	Agile
Planning Scale	Long Term	Short Term
Distance between customer and developer	Long	Short
Time between specification and implementation	Long	Short
Ability to respond quickly to change	Low	High
Clarity of Final Outcome	Clear	Ambiguous
Time to discover problems	Long	Short
Project Schedule Risk	High	Low
Product Management	Easy	Difficult, requires good PM

Operations

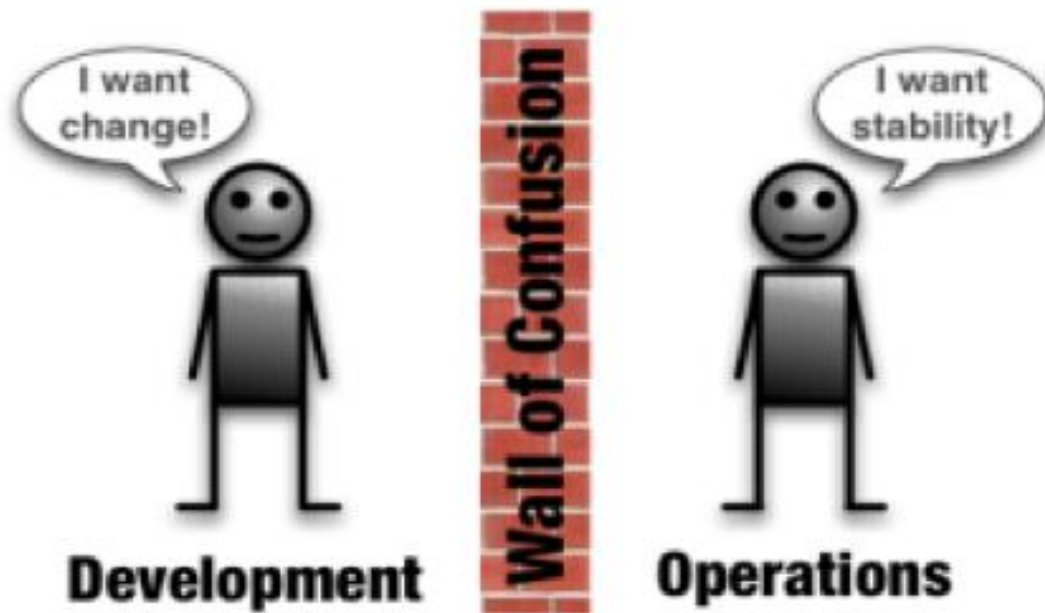
Operations Under Pressure



Environments Out Of Control



Wall Of Confusion



Traditional IT Thinking



Net Result

Frustrated Line Of Business



DevOps – Basic Concepts

What is DevOps

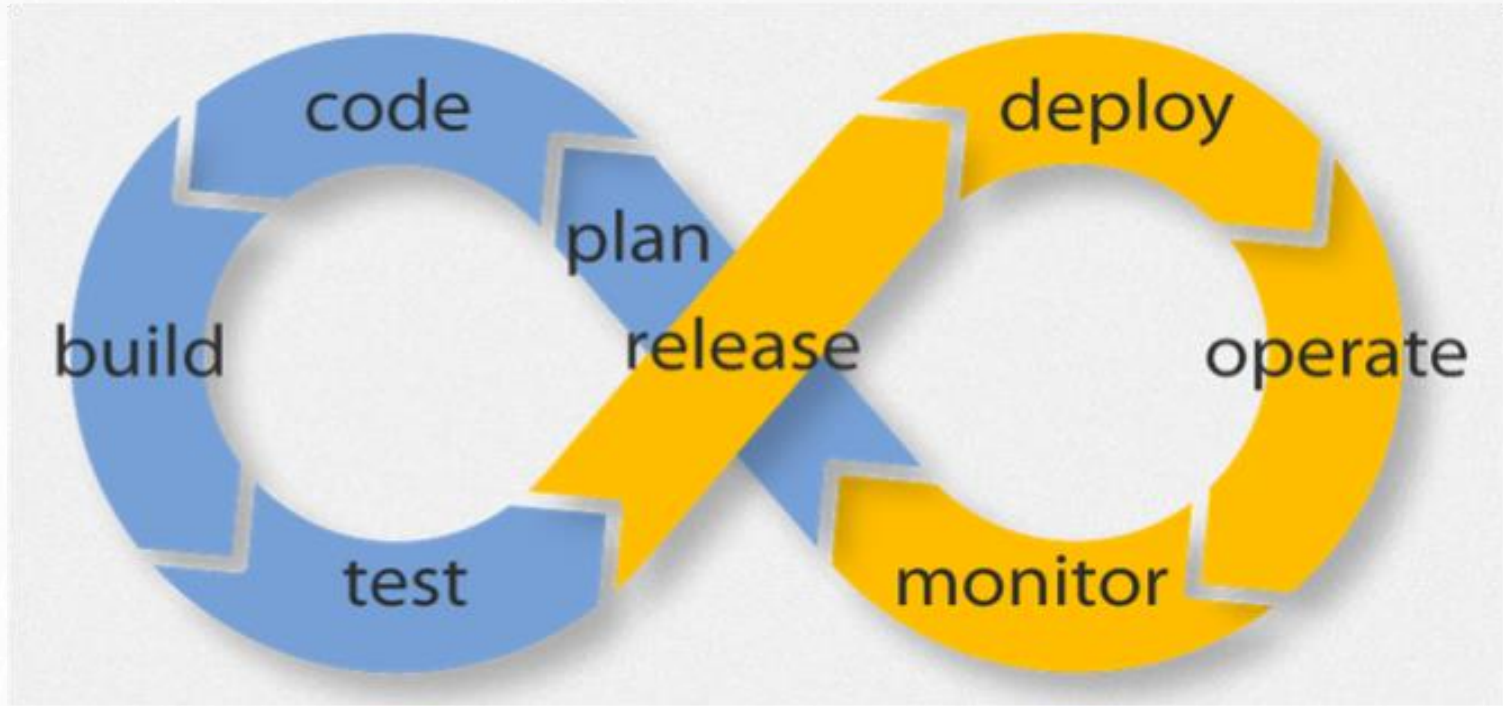


DevOps is a culture of collaboration between **Developers & Operations** aligning with the goals to meet business needs

What is DevOps

DevOps is a cultural change in IT
aided by the **right set of tools**

DevOps Cycle



Two Ways To Enable DevOps

IaaS+

PaaS

DevOps by IaaS+



- **IT controls the lifecycle** from OS and above
- **Use of scripts** like Puppet, Chef and other OSS tools
- May lead to **complexity** in the stack
- Developers need to have **operations expertise** and vice versa
- Config management **errors may creep in**

DevOps by PaaS



- IT delivers **standardized stack** on top of which applications are deployed
- **Simpler environment** that can be easily replicated
- **Roles of developers and operations are kept separate**
- Config Management **errors minimized**

In Short

DevOps+PaaS should let

- **Developers** focus on **writing code**
- **Quality Engineers** focus on **testing**
- **Operations** focus on providing **reliable and stable environments**

Key Performance Indicators

DevOps KPI

- **Productivity Increase:** The ratio of revenue producing tickets to non revenue producing tickets. Also, a good measure of innovation
- **ROI:** Cost savings by using DevOps

Final Considerations

Cultural Change

- Focus on **cultural change**
- **Bring all the stakeholders to the table** (Ops, Devs and LOBs)
- **Let business define their need**
- **Developers & Operations collaborate** to understand mutual needs and problems while defining their goals
- **Let these goals define the IT strategy**

Right Tools

- **Pick the right tool** for your IT needs
- **Avoid complexity** and maximize efficiency (we recommend PaaS as the solution)
- Ensure that the **tools are standardized** for different teams
- Give developers an **easy deployment interface**
- Measure and **enable feedback loop**

THANK YOU

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