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# Introduction to DevOps

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A TALK BY





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MS (CS), BE (Mech)

Interest in Quality  
since 1996

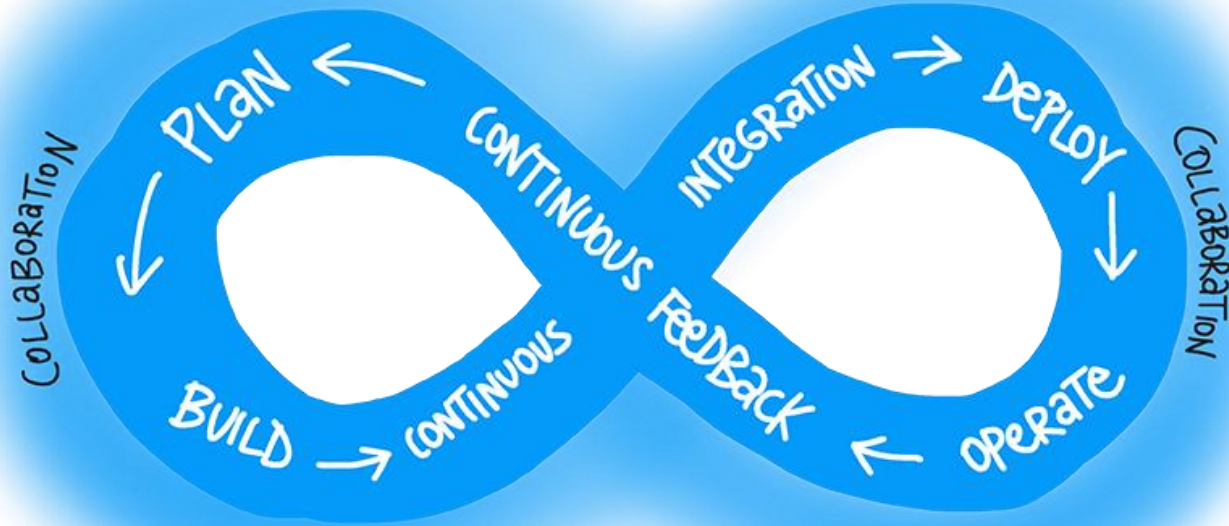
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Promoting software quality at:  
<http://knowledgetester.org>

Sr. Manager Software Quality at  
Bentley Systems Pakistan

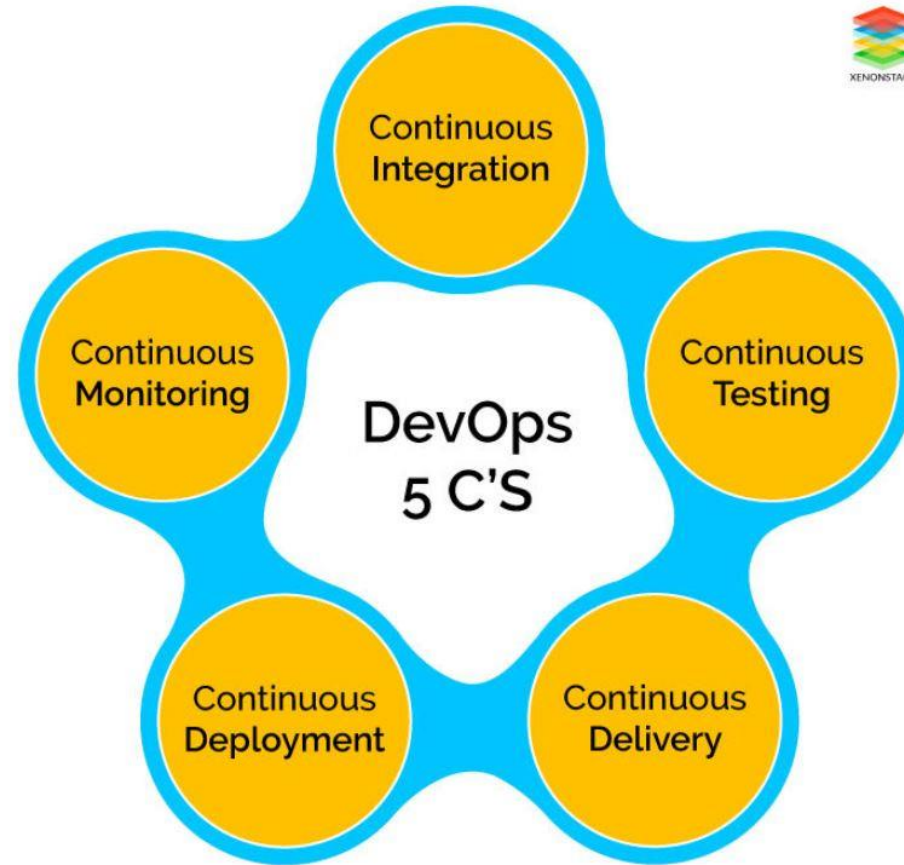
How to achieve:  
“Quality at Speed”  
(and)  
Deliver what is needed

# DevOps can help



DevOps is the union of people, process, and products to enable continuous delivery of value to our end users.

Source: <https://www.visualstudio.com/learn/what-is-devops/>



<https://www.xenonstack.com/blog/top-10-things-to-know-in-devops>

# Achieving Quality

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- Continuous Testing:
  - On-Demand, Scheduled or Triggered.
  - Testing is an activity rather than a phase.
- “Shift Left” Testing:
  - Testing is done early regardless of who does it.
  - Programmers write lot of Unit tests.
- Deployment in steps:
  - Microsoft calls them Rings: Ring 0, Ring 1, ...
  - Facebook has an internal facebook.
  - Typically we have Dev, QA and Prod.

# Achieving Speed

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- Continuous Delivery:
  - Build, test, configure and deploy from a build to a production environment
  - Pipelines (or Release Pipelines) are used to define those jobs.
- DevOps conference is called Velocity:
  - Facebook deploys at least twice a day.
  - Etsy has 60 deployments per day.
  - Amazon deploys every 11 seconds.

# Deliver what is needed

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- Monitoring the production through “Telemetry”:
  - Application logs for failures or “possible errors”.
  - User behaviors: which features are used more?
  - A/B Testing: “Controlled experiment with two samples A/B”.
- Continuous feedback:
  - For improvement of processes and product
  - Dev, QA and Ops give and receive feedback.
  - User feedbacks are also facilitated.



“The game has changed  
from Survival of the fittest  
to Survival of the fastest.”

Inspired by: <http://www.futureofwork.com/article/details/survival-of-the-fastest>



Knowledge Tester

Software Tester Equipped with Knowledge

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# GET IN TOUCH!

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