DEVOPS:

What is a Devop?

* **DevOps** ("Development" and "Operations")

is a **Software Development and Delivery Process** that emphasizes **Communication and Collaboration** between **Product Management, Software Development, and Operations Professionals.**

**Devop Tools:**

* [Nagios](https://www.nagios.org/documentation/) & [Icinga](https://en.wikipedia.org/wiki/Icinga)
* [Monit](https://en.wikipedia.org/wiki/Monit)
* [Logz.IO](https://en.wikipedia.org/wiki/Logz.io)
* [Consul.IO](https://www.consul.io/docs/guides/)
* [Jenkins](https://jenkins.io/doc/)
* [Docker](https://en.wikipedia.org/wiki/Docker_(software))
* [Ansible](https://en.wikipedia.org/wiki/Ansible_(software))
* [Collectd](https://en.wikipedia.org/wiki/Collectd)
* [Collectl](http://collectl.sourceforge.net/)
* [Git](https://en.wikipedia.org/wiki/Git)
* [GitHub](https://github.com/)
* [Bamboo](https://www.atlassian.com/software/bamboo)

**Working with Devops:**

* Code
* Code Development & Review
* Source Code Management Tools
* Code Merging
* Build
* Continuous Integration Tools
* Build Status
* Test
* [Continuous Testing](https://en.wikipedia.org/wiki/Continuous_testing) Tools that provide feedback on business risks
* Package
* [Artifact repository](https://en.wikipedia.org/wiki/Binary_repository_manager), application pre-deployment staging
* Release
* change management, release approvals, [release automation](https://en.wikipedia.org/wiki/Application_release_automation)
* Configure
* Infrastructure configuration and Management
* [Infrastructure as Code](https://en.wikipedia.org/wiki/Infrastructure_as_Code) tools
* Monitor
* [Applications performance monitoring](https://en.wikipedia.org/wiki/Application_performance_management)
* End User experience

**Goals of Devops:**

* Improved deployment frequency
* Faster [time to market](https://en.wikipedia.org/wiki/Time_to_market)
* Lower failure rate of new releases
* Shortened lead time between fixes
* Faster mean time to recovery (in the event of a new release crashing or otherwise disabling the current system).

**Continuous Integration:**

**Continuous Integration** (CI) is a development practice that requires developers to **integrate** code into a shared repository several times a day. Each check-in is then verified by an automated build, allowing teams to detect problems early.