1. **Git**

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* Git is a distributed version-control system for tracking changes in any set of files, originally designed for coordinating work among programmers cooperating on source code during software development. Its goals include speed, data integrity, and support for distributed, non-linear workflows.
* Git radically changes the way how a team will create and deliver work to its client. Various processes including designing, development, product management, marketing, customer support can be easily handled and maintained using Git in the organization leading **to quicker and streamlined software development.**

1. **Docker**

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* Docker is a set of platforms as a service product that use OS-level virtualization to deliver software in packages called containers.
* Containers are isolated from one another and bundle their own software, libraries and configuration files; they can communicate with each other through well-defined channels.
* It enables faster, **more efficient development while reducing maintenance complexity** in the long run.

1. **Automated testing**

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* The fundamental difference between manual and [automated testing](https://smartbear.com/product/testcomplete/overview/) is straightforward. With manual testing, a human is responsible for single-handedly testing the functionality of the software in the way a user would. Automated testing is done through an automation tool, so more time can be spent on higher value tasks, such as exploratory tests while automating time-consuming tests, such as regression tests.  While you do need spend time maintaining test scripts overall, you will **increase your test coverage and scalability**.
* The benefit of manual testing is that it allows a human mind to draw insights from a test that might otherwise be missed by test automation.

1. **Continuous integration**

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* [Continuous integration](https://www.thoughtworks.com/continuous-integration) (CI) is the software development practice of regularly integrating code changes into a shared code repository.
* Typically, this would happen at least once or then several times a day (depending on the number of code commits) and this practice encourages committing small changes more often over committing large changes infrequently.
* Each commit triggers a build during which tests are run that help to identify if anything was broken by the changes.
* Advantages of CI: Increase **transparency** and **visibility**, **Detect** and **fix issues** early**, Improve quality and testability**.