DevOps Practices @ Microsoft
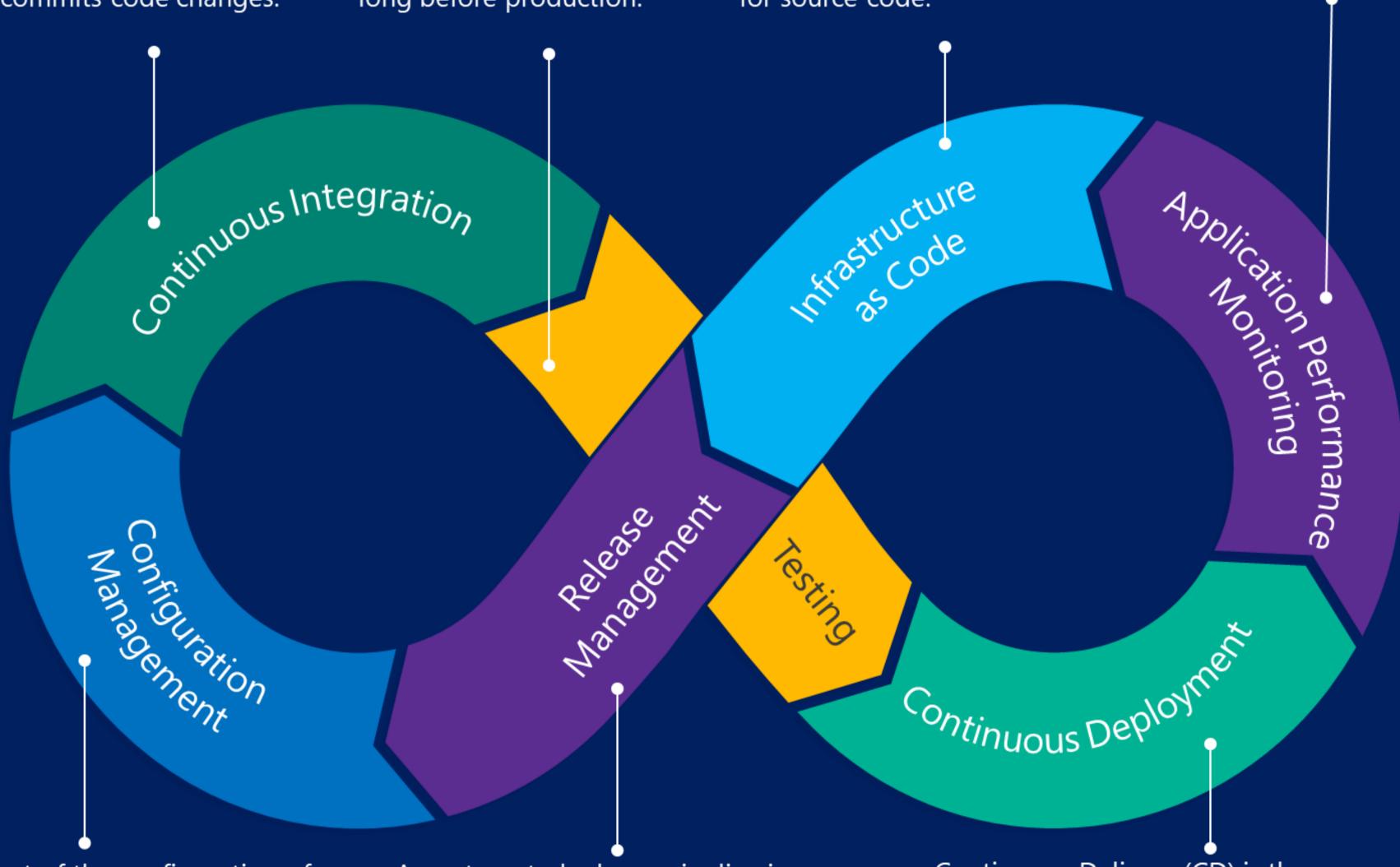
Continuous Integration (CI) is the practice of merging code and automatically running a build process including tests whenever a developer commits code changes.

Automated and continuous testing provides quality gates throughout the pipeline and increases confidence in code long before production.

Infrastructure as Code (IaC) is the management of infrastructure in a descriptive model, using the same versioning as DevOps team uses for source code.

Monitoring provides feedback from production. Monitoring delivers information about an application's performance and usage.

Management of the configuration of all environments for a solution needed for maintainability, consistency, reliability, and security.

An automated release pipeline is needed to deliver at the pace of development with full traceability

Continuous Delivery (CD) is the process to build, test, configure and deploy from a build to a production environment.