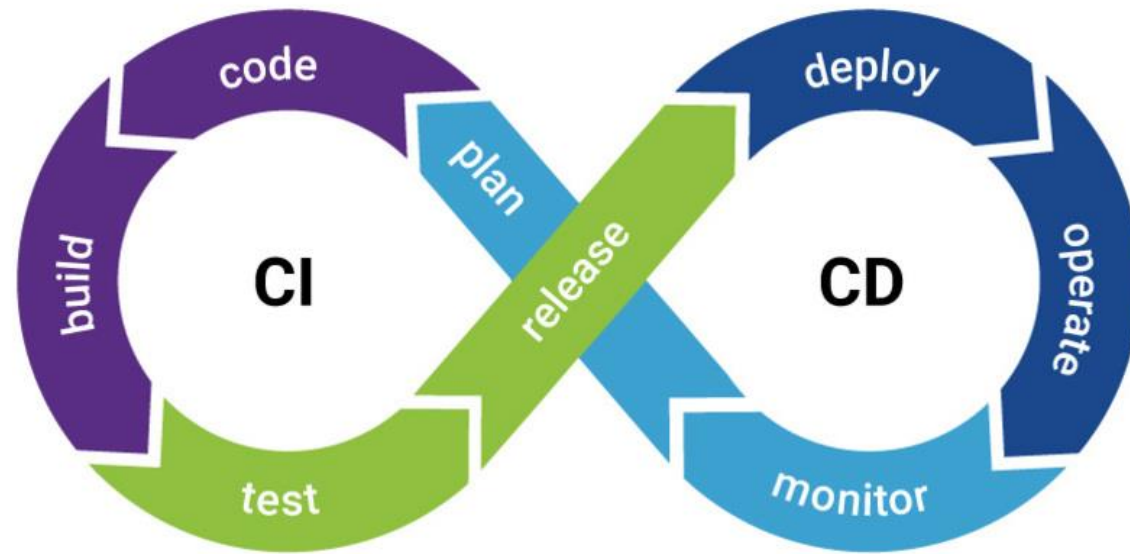


# Continuous Integration Continuous Deployment

Fundamentals and benefits of CI/CD to build, deploy  
application automatically

# Agenda

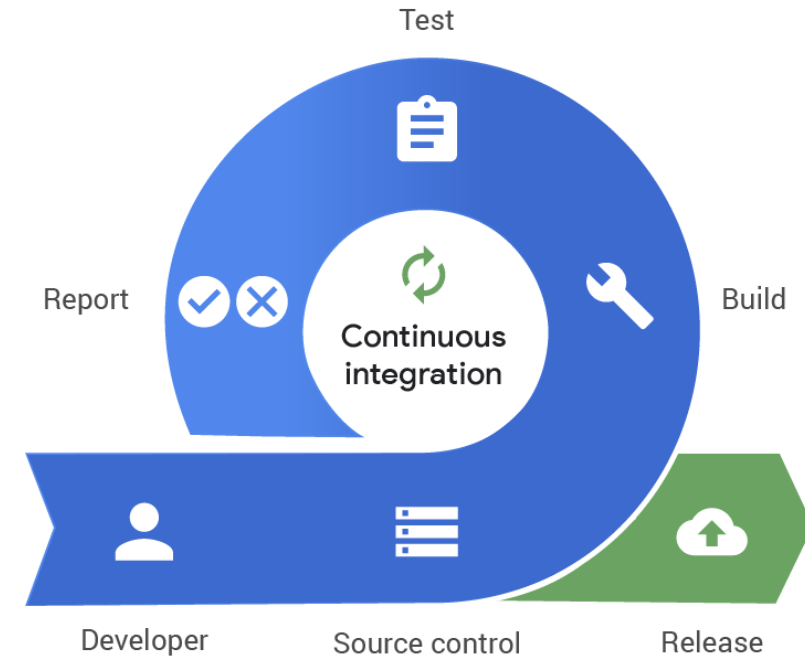
- **CI/CD Fundamentals**
- **Benefits of CI/CD**



# Continuous Integration

*The practice of merging all developers' working copies to a shared mainline several times a day. It's the process of "**Making**". Everything related to the code fits here, and it all culminates in the ultimate goal of CI: a high quality, deployable artifact! Some common CI-related phases might include:*

- Compile
- Unit Test
- Static Analysis
- Dependency vulnerability testing
- Store artifact



# Continuous Deployment

*A software engineering approach in which the value is delivered frequently through automated deployments. Everything related to deploying the artifact fits here. It's the process of "**Moving**" the artifact from the shelf to the spotlight. Some common CD-related phases might include:*

- Creating infrastructure
- Provisioning servers
- Copying files
- Promoting to production
- Smoke Testing (aka Verify)
- Rollbacks



# Benefits of CI/CD

- **Faster time to market**
- **Reduced risk**
- **Shorter review time**
- **Better code quality**
- **Efficient infrastructure**
- **Delivers value more frequently**
- **Measurable progress**
- **Collaboration and communication**
- **Get fast feedback on what users care about**