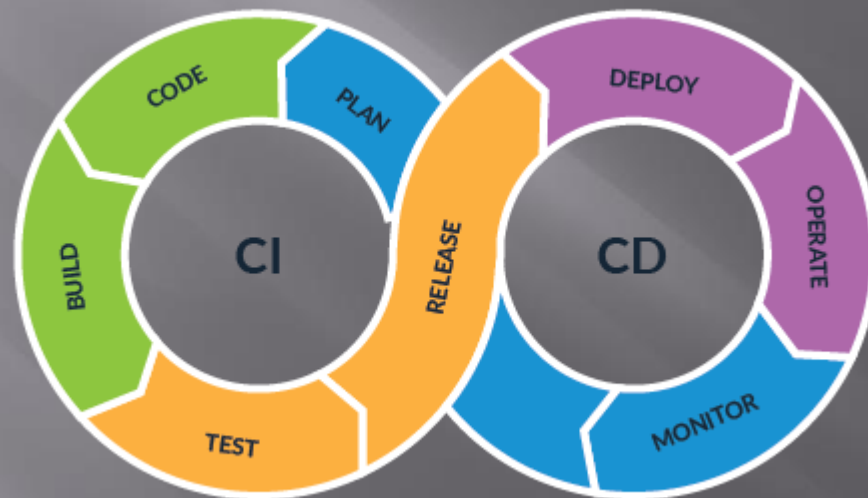


UDACITY-PROJECT3

Fundamentals & Benefits of CI/CD

Shiv Pal Singh

Continuous Integration & Continuous Delivery



Problems CI/CD solves

- ▣ Poor performance
- ▣ flawed tests
- ▣ Unsuitable versions of tools
- ▣ Unreliable security processes
- ▣ Human factor effect
- ▣ Negligence of Unit testing

Benefits of Continuous Integration & Continuous Delivery

- ▣ Smaller Code Changes
- ▣ Fault Isolations
- ▣ Customer Satisfaction
- ▣ Faster Mean Time To Resolution (MTTR)
- ▣ More Test Reliability
- ▣ Faster Release Rate
- ▣ Smaller Backlog
- ▣ Increase Team Transparency and Accountability
- ▣ Easy Maintenance and Updates

CI/CD helps save money compared to manual deploying

- ▣ **Deeply expensive downtime-** Long-term downtime does not only influence your revenue negatively but also undermines your company's credibility.
- ▣ **Troubleshooting costs-** With CI/CD pipeline properly automated, the process of the product deployment and release is more reliable and developers are not wasting hours on bug-fixing.
- ▣ **Switching/onboarding costs** -Automated CI/CD let new members of the team get down to business right away without having to deal with an exhausting learning curve.