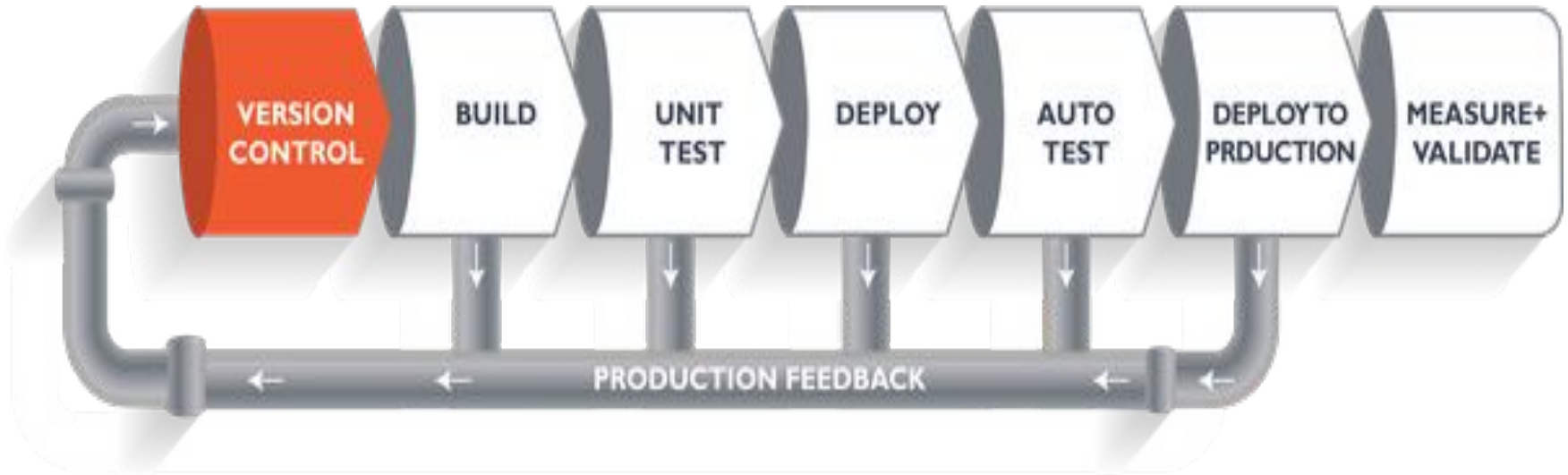# Dev-Ops practices and Concepts

Day 2

Will discuss about

- **What is Pipeline?**
- **DevOps Concepts and types**
- **Continuous Integration**
- **Continuous Delivery**
- **Continuous Deployment**
- **Differences between CI and CD**
- **DevOps practices**

DevOps Pipeline

VERSION CONTROL → BUILD → UNIT TEST → DEPLOY → AUTO TEST → DEPLOY TO PRDUCTION → MEASURE+ VALIDATE
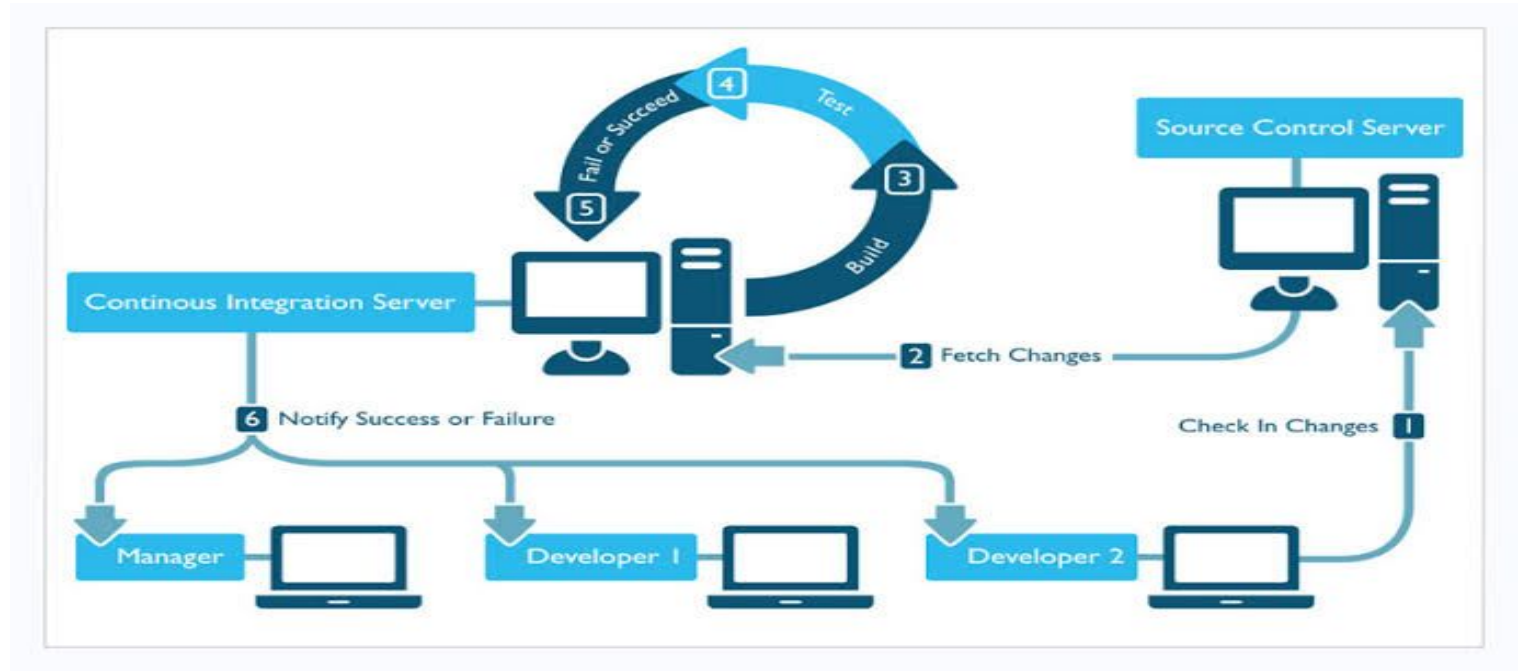
PRODUCTION FEEDBACK

DevOps Concepts

Continuous Integration

Continuous Delivery

Continuous Deployment

Continuous Testing

Continuous Monitoring

Continuous Integration

Continuous Delivery
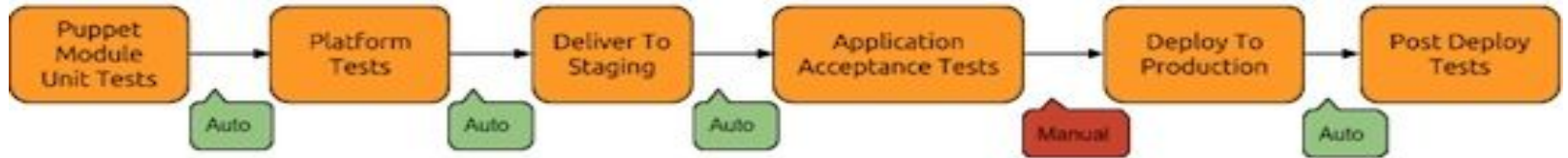

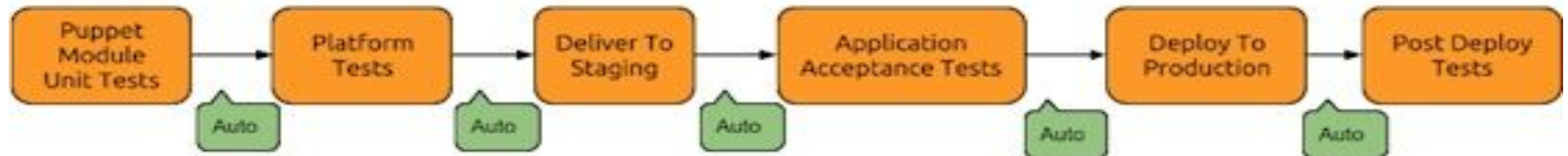| Plan | Code | Build | Test | Release | Deploy | Operate |

Continuous Integration

Continuous Delivery

Continuous Deployment

Continuous Delivery

Puppet Module Unit Tests	→	Platform Tests	→	Deliver To Staging	→	Application Acceptance Tests	→	Deploy To Production	→	Post Deploy Tests
Auto		Auto		Auto		Manual		Auto		

Continuous Deployment

| Puppet Module Unit Tests	→	Platform Tests	→	Deliver To Staging	→	Application Acceptance Tests	→	Deploy To Production	→	Post Deploy Tests
Auto		Auto		Auto		Auto		Auto		

Difference between CI and CD
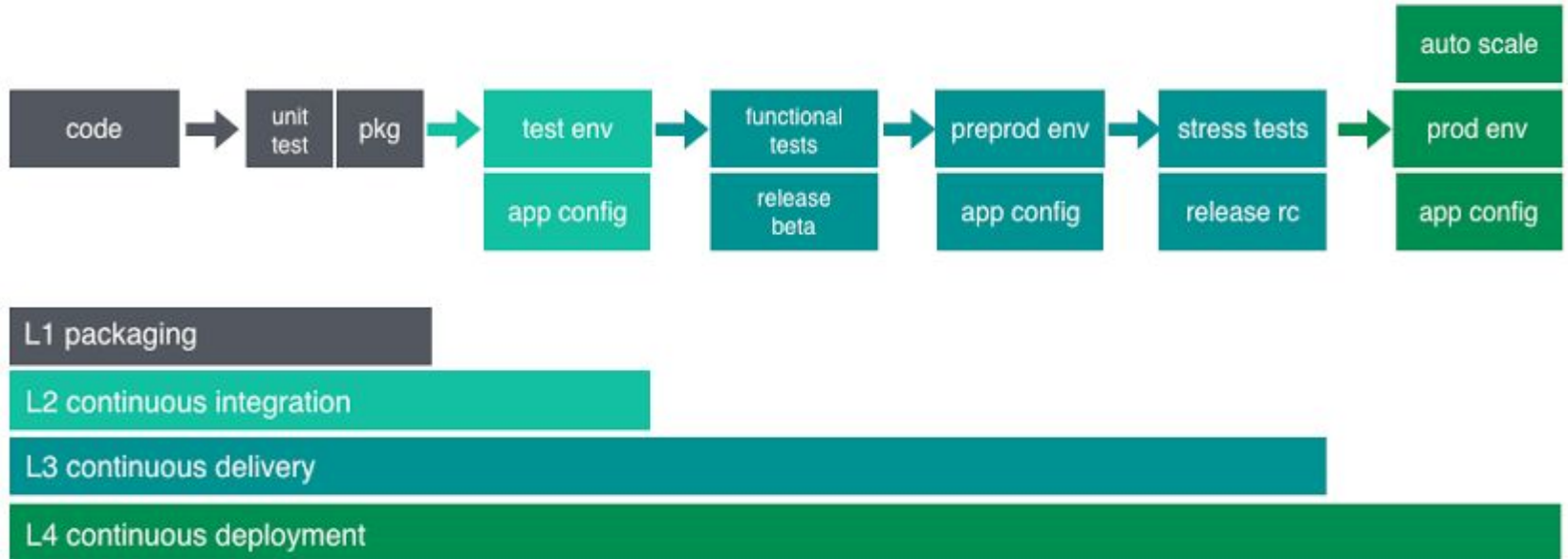
DevOps Practices

1. **Version Control All Production Artifacts**
2. **Continuous Integration and Deployment**
3. **Automated Acceptance Testing**
4. **Peer Review of Production Changes**
5. **High-Trust Culture**
6. **Proactive Monitoring of the Production Environment**
7. **Win-Win Relationship (and Outcomes) Between Dev and Ops**

History of Devops
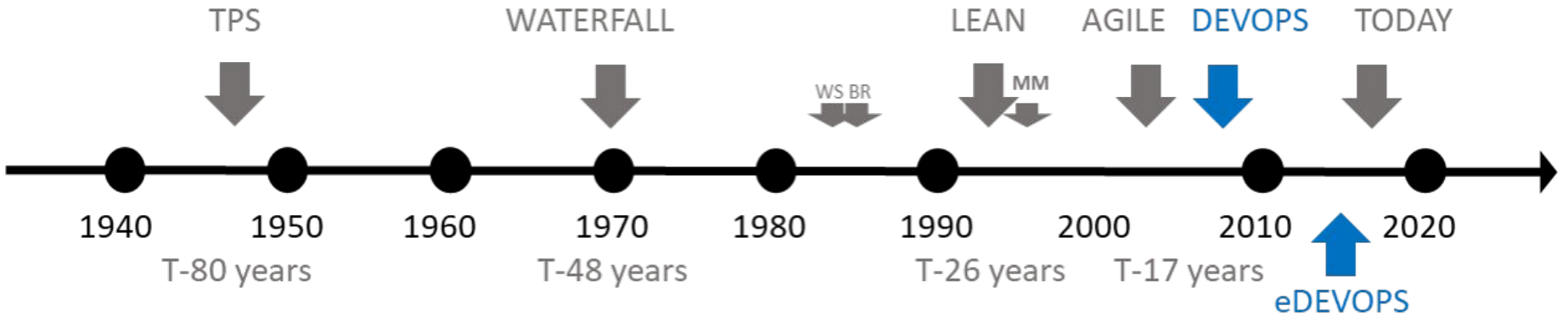
Thank you ! Have a great day.

Tip

Go through CI and CD again which is core for a DevOps Engineer

Happy Learning!