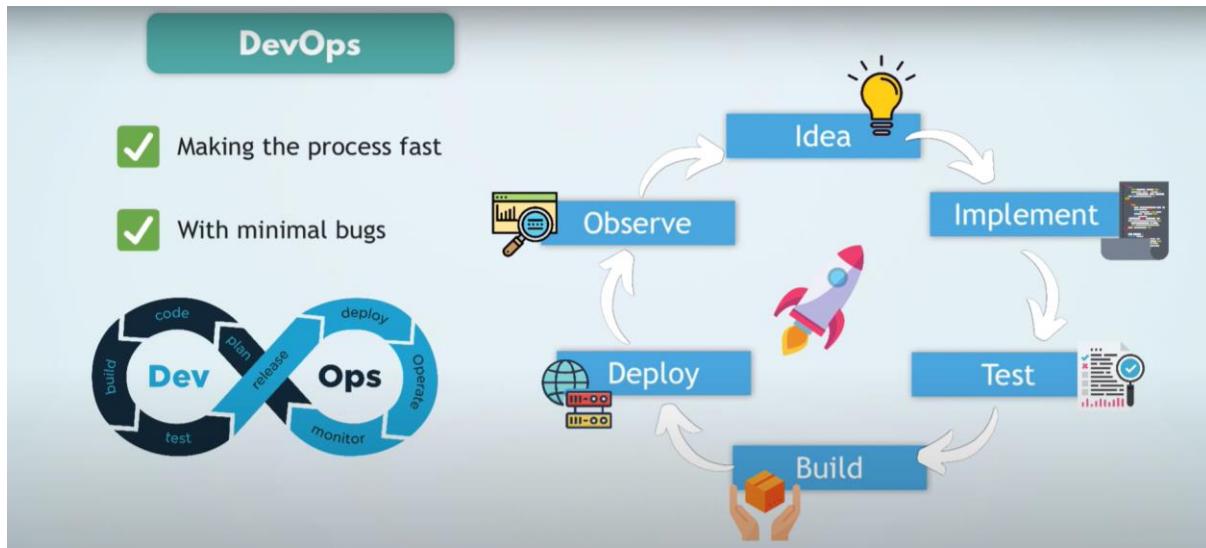
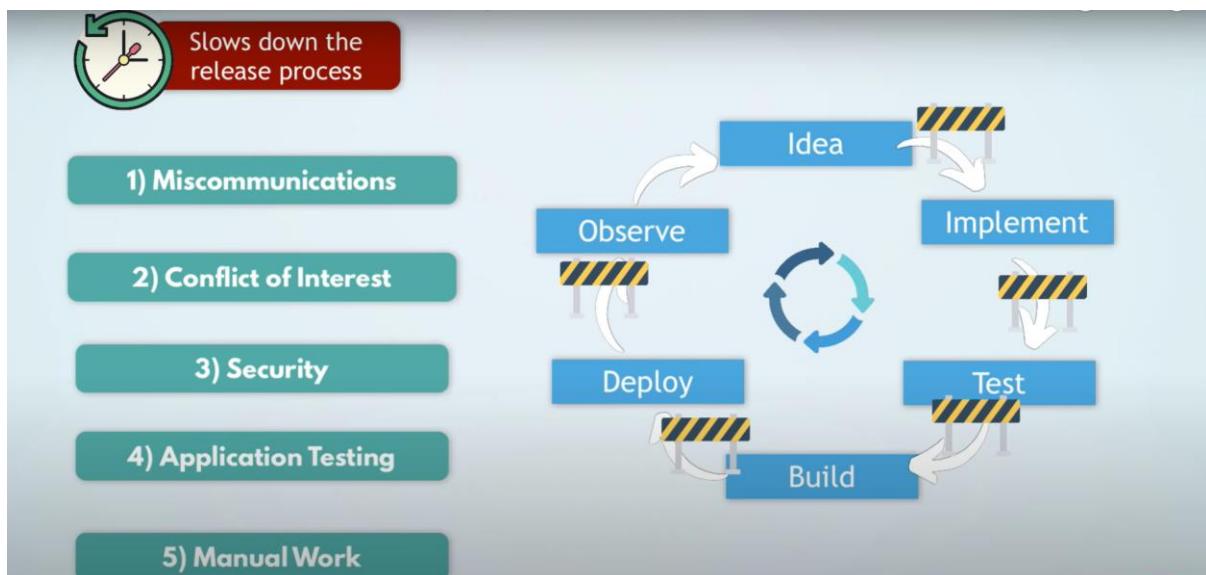
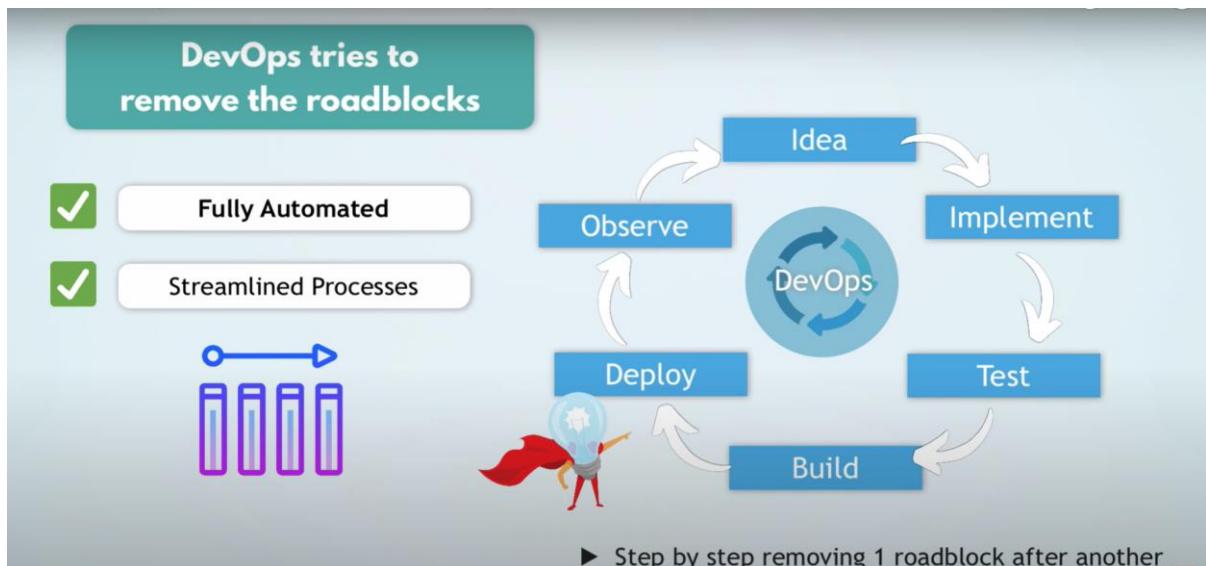


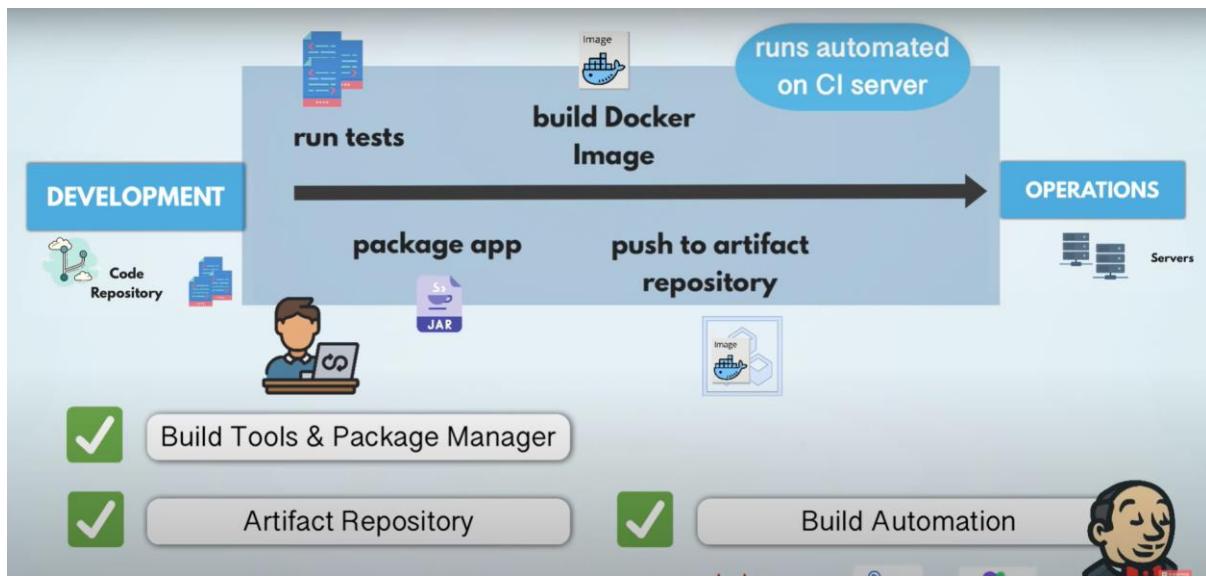
**Software Versioning:** Major | Minor | Patch => 1.4.2



# Development and Operations Challenges:

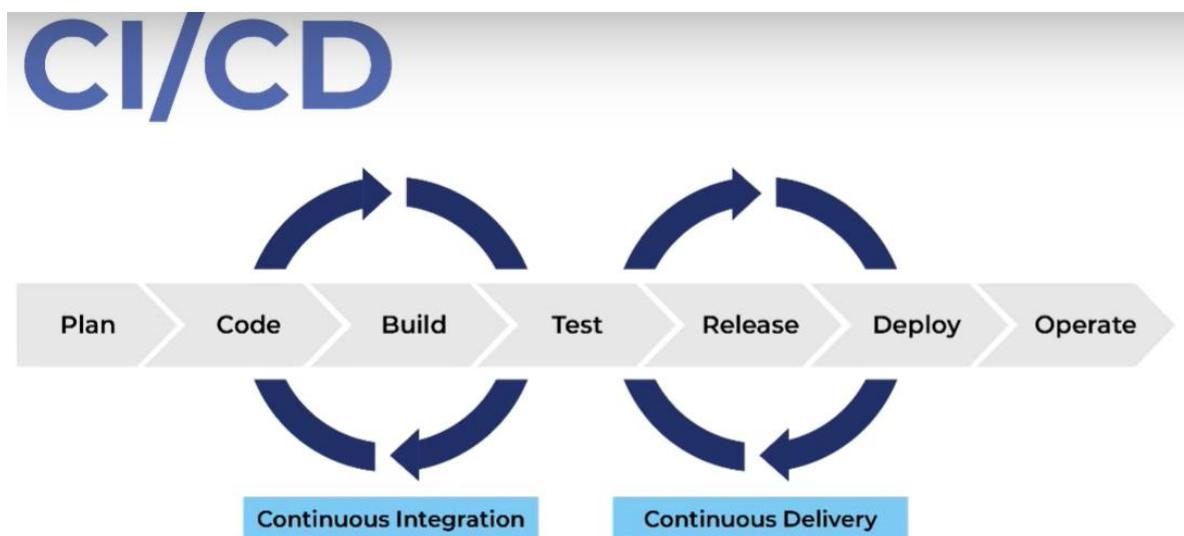




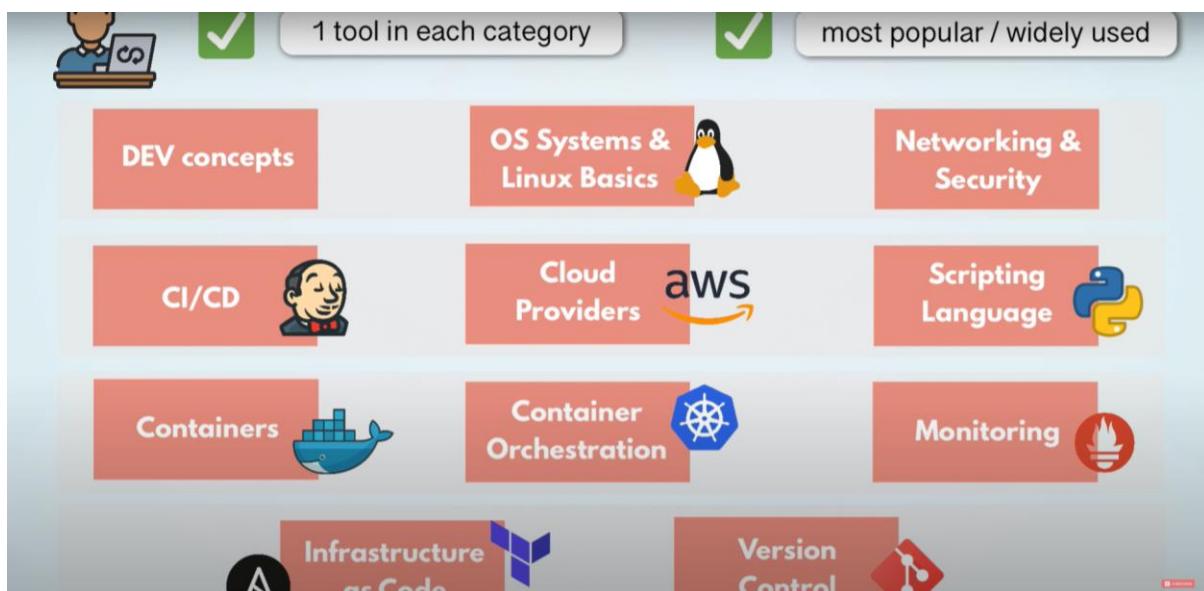


Need to Know:

- Linux
  - o Linux Basics
  - o Comfortable using CLI
  - o Shell Commands
  - o Linux File System
  - o Server Management
- Networking and Security
  - o Firewall, Proxy Servers
  - o Load Balancers
  - o HTTP/HTTPS
  - o IP, DNS Name Resolution
- Containers: Software Packaging Model
  - o Virtualization
  - o Docker
- CI/CD: Automation
  - o Jenkins



- Cloud
  - o Infrastructure as a Service (AWS, Google Cloud, Azure)
- Container Orchestration
  - o Kubernetes
- Monitoring: Track performance | Discover problems
  - o Prometheus
- Infrastructure as Code: Create infrastructure | Configure to run and deploy your application
  - o Infrastructure Provisioning: Terraform
  - o Configuration management: ANSIBLE, CHEF
- Scripting Language
  - o Bash, Power Shell
  - o Python, Go, Ruby
- Version Control
  - o Git



SRE: Site Reliability Engineering

