



CI/CD E2E View

1. Immediate build. On check-in
2. Code Analysis /Quality Gates
3. New pkg. deployed in test env.
4. One pipeline for each component
5. Single pipeline per sprint for all
6. Deploy latest builds of all components in Automation env.
7. Execute critical business processes Test Suite e2e. And Perform security checks./tests
8. Execute Release pipeline.
9. Create Rel. Manifest
10. Label Code in Git
11. Rel. Mgr. triggers a release

Release and Manifest

1. CM creates initial Release Manifest file in Git. Includes all package names and versions.
2. Jenkins Build Job builds Docker images, Docker-compose, packages per Release manifest file **(Automated)**
3. Jenkins Build Job also updates release manifest file to reflect new/subsequent Docker image / package versions **(Automated)**
4. Jenkins Build Job uploads Docker images, Docker compose, packages and Release manifest file to Git **(Automated)**
5. Ansible pulls Release Manifest file to download & deploy packages for specific release **(Automated)**
6. Ansible playbooks use Release Manifest file to install/deploy containers/SW packages. **(Automated)**

E2E Automated Deployment

1. Install & configure Devops Tools: **Ansible, Jenkins**
2. Install & configure: **Micro-services Platform (Kubernetes)**
3. Destroy old micro-services and dockers.
4. Install & configure: DB, Apps, Sec.
5. Deploy Dockerized Microservices (**UI, BL, CE, APIM, Monitoring**)