DevOps Flow

- Continuous Development
 - Source Code Management
- **Continuous Integration**
 - Unit Test
 - Build
 - **Code Analysis**
 - **Build Artifacts**
- Continuous Deployment
 - Infrastructure
 - Configuration Management
- **Continuous Testing**
 - Post Deployment Testing
- **Continuous Monitoring**

- N/A (Visual Studio)
- Git
- Jenkins
- N/A
- Mayen
- Sonarqube
- Nexus
- Ansible
- AWS/Docker/K8ts
- Ansible
- N/A
- N/A
- Nagios

Continuous Development

✓ Developers uses various tools to develop the code. Developed code get push to source code management.





- ✓ Most of the cases DevOps engineers doesn't write application code.
- ✓ DevOps engineers are responsible to maintain the code using "source code" management tools"

Source Code Management











Continuous Integration

Code analysis:

sonarqube

Code build:

Maven

Artifact repository:



Continues Integration









Continuous Integration

Multiple steps are involved in Continuous integration.

- Unit Testing Junit, Nunit (plugin)
- Code Build Maven, ANT, Gradle (Plugin & Setup)
- Code Analysis Veracode, SonarQube (Plugin & Setup)
- Code Artifacts Nexus, Artifactory (Plugin & Setup)

Continuous Deployment











Infrastructure

Continuous deployment need target test/QA/Prod etc... environments.











Configuration Management









Continuous Testing







Continuous Monitoring







Priority











