



Introduction

Video # 1

Resources:

<https://en.wikipedia.org/wiki/DevOps>



Prerequisites


Video # 2

- Resources:
- <https://github.com/join>
- <http://www.oracle.com/technetwork/java/javase/downloads/index.html>
- <https://github.com/join>
- <https://www.sourcetreeapp.com/>
- <https://www.git-scm.com/downloads>
- <https://spring.io/tools/sts/all>
- <http://maven.apache.org/>
- <https://tomcat.apache.org/download-80.cgi>
- <https://www.ifrog.com/artifactory/>
- <https://jenkins.io/download/>
- <https://www.elastic.co/downloads/elasticsearch>
- <https://www.elastic.co/downloads/logstash>
- <https://www.elastic.co/downloads/kibana>
- <https://atom.io/>



Installation and Configuration of Software

- Install and Configure Apache Tomcat - Video # 3
 - Install and Configure JFrog Artifactory - Video # 4
 - Install and Configure Apache Maven - Video # 5
 - Install and Configure Jenkins Part 1 - Video # 6
 - Install and Configure Jenkins Part 2 - Video # 7
 - Maven Security Setup - Video # 8
-
- Resources:
 - `settings.xml`
 - `settings-security.xml`



Development (Code, Test, Review and Merge)

- Setup SSH for GitHub for User - Video # 9 - resource: **notes-github-tweak.txt**
- Create a GitHub Repository and setup GitFlow - Video # 10
- Create a Spring Boot Project - Video # 11
 - Resource : <https://github.com/nandudemy/devops> and devops.zip
- Spring STS Setup and Import - Video # 12
- Spring Boot Basic Server Code - Video # 13
- Spring Boot Basic Client Code - Video # 14
- Configure for SCM and Artifactory - Video # 15
 - Resource:
 - notes-maven-scm-settings.txt
 - <https://maven.apache.org/guides/mini/guide-encryption.html>
- Commit changes and submit pull request - Video # 16



Continuous Integration and Continuous Deploy

- Setup SSH and Maven Settings for Jenkins - Video # 17
 - Resources: notes-jenkins-ssh-and-global-config.txt
- Install Jenkins and Plugins - - Video # 18
- Jenkins Plugin Basic - - Video # 19
- Jenkins SNAPSHOT builds - Video # 20
- Jenkins Tomcat Deploy Plugin - - Video # 21
- Jenkins Tomcat Deploy Script - Video # 22
 - Resources: notes-jenkins-ssh-and-global-config.txt



GitFlow Feature Release (1.0.0)

- Start a Release - Video # 23
 - Resource: <http://nvie.com/posts/a-successful-git-branching-model/>
- Release code to QA from Tag - - Video # 24
- Release code to PROD from artifactory - Video # 25
- Finish Current Release - Video # 26



GitFlow Feature Release (1.2.0)

- Start a Release and deploy to all environments - - Video # 27
- Finish Release - Video # 28




GitFlow HotFix Release (1.2.1)

- Create a Bugfix Release and Start and Finish a Bugfix Release - Video # 29



Application and Log Monitoring

- Release 1.3.0 for adding Logging and Deploy to all environments - Video # 30
- Finish the Release - Video # 31
- Finish the Release Continued - Video # 32
- Install and Configure ElasticSearch and Kibana - Video # 33
- Install and Configure Logstash - Video # 34
 - Resource: logstash-pipeline.conf.txt
- Configure Dashboard and Review the logs - Video # 35
 - Resource: export.json



SonarQube Continuous Code Quality Metrics Integration

- SonarQube Installation - Video # 37
 - Resource: <https://www.sonarqube.org/>
- SonarQube Maven Settings - Video # 38
 - Resource:
 - Notes-sonarqube.txt
 - <https://docs.sonarqube.org/display/SCAN/Analyzing+with+SonarQube+Scanner+for+Maven>
- SonarQube Code changes - Video # 39
- SonarQube GIT Release preparation - Video # 40
- SonarQube Jenkins Integration - Video # 41
- SonarQube Results Overview - Video # 42
- SonarQube GIT Release closure - Video # 43



Jenkins Pipeline Configuration and Build

- Understanding Jenkins Pipeline Configuration and Code changes - Video # 44
 - Resources: JenkinsFile.txt
- Jenkins Pipeline job configuration and Review pipeline results - Video # 45



JIRA Confluence GitHub Jenkins Integration

- JIRA Confluence and GitHub Integration - Video # 46
- GitHub Jenkins JIRA Confluence Integration using NGROK - Video # 47



Conclusion

- Wrap up - Video # 36