* Continuous Integration:
  + Instructor: Pavan Gupta
  + Time and Day - 3 p.m. to 5 p.m. Tuesday June 30, Thursday July 2
  + 30 min discussion on CI:
    - What is CI
    - How it adds value to the project lifecycle
    - What are most commonly used tools for CI : Bamboo, Jenkins
    - More indepth discussion on Jenkins
  + Jenkins exercises (Estimated time - 4 hours)
    - Install Jenkins on Linux, Mac, Windows
      * Understand what is being installed and configured on the system
      * Installing Jenkins using a system use vs full privilege user
    - Jenkins Global Configuration
    - Jenkins credentials configuration
    - Jenkins plugins management
    - Jenkins git configuration
    - Jenkins master slave setup
    - Jenkins and UI interactions
  + We will not cover Bamboo in this sessions since its closely tied with Atlassian ecosystem

Prerequisites:

1. Install latest JDK.
2. Download Jenkins war file from: <https://jenkins-ci.org/>

Contents:

1. Getting started
2. Running First Job

Nikhil:

java -jar jenkins.war.

1. Install plugins-
   1. [git plugin](https://wiki.jenkins-ci.org/display/JENKINS/Git+Plugin)
   2. [email ext plugin](https://wiki.jenkins-ci.org/display/JENKINS/Email-ext+plugin)
   3. [Copy Artifact Plugin](https://wiki.jenkins-ci.org/display/JENKINS/Copy+Artifact+Plugin)

2. configure : <https://github.com/PavanGupta01/jenkinsTest.git>

3. add shell script to run writer.py python program

4. configure email notification

5. upload artifacts

Advanced:

1. password less SSH
2. Running jobs on remote machines (Slave Nodes)
3. CI Troubleshooting
4. QO Case Study

Environment Variable: <https://wiki.jenkins-ci.org/display/JENKINS/Building+a+software+project>

Master: .jenkins

Slave: $Workspace

**Jenkins User Guide:**

<https://docs.google.com/document/d/1FFYZA4eI40LOnknButw23Z0O0AryoF5k_AofzweOEyw/edit>