1. User Creation
   * Manage Jenkins > Configure Global Security > Enable Security
   * *Manage Jenkins > Manage Users > Create User*

Jenkins Admin Creation

<https://wiki.jenkins.io/display/JENKINS/Standard+Security+Setup>

2.) Workspace in image

/var/jenkins\_home/workspace/test

1. ) Important process in CI
2. Unit Test : Module or function coverage. No interaction with other components (eg server). Should be very fast.
3. Component Test: Hit other resources, folders and servers. Its slower.
4. Acceptance test: Capacity, availability and security. Should be system level.

4.) CI requirement

10 minutes is considered ages.

Database scripts, build scripts and deployment script checked in repo.

Display who broke the build

Coverage report, cyclomatic complexity, displayed on summary page.

5.) Development process

Before starting development, run test ensure everything works.

6.) Jenkins checkout workspace

$WORKSPACE

/var/Jenkins/workspace

7.) Jenkins Workspace theory

<https://jenkins.io/doc/pipeline/steps/workflow-durable-task-step/#ws-allocate-workspace>

<https://engineering.medallia.com/blog/posts/parallelizing-jenkins-pipelines/>

8.) Jenkins Email SMTP

<http://confluence-id.zone2.agileci.conti.de/display/CIPS/Jenkins-Master+Configuration>

9.) Jenkins Declarative Syntax

<https://jenkins.io/doc/book/pipeline/syntax/#declarative-pipeline>

10.) Jenkins Generator (script, declarative, global variable documentation)

<http://localhost:8080/job/job/directive-generator/>

1. Where to find Jenkins variable?

Jenkins environment variable is created in rest API during build job.

To visualize, add command

sh ‘printenv | sort’

in Jenkinsfile.

Note: To use ‘env’ variable please find ${env.JOB\_NAME}, ${env.ghprbactualcommituser} etc etc