

Jenkins - Continuous Integration

SYT - 5A HIT

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Contents

1	Task Definition	3
2	Get Started	4
2.1	Installation	4

1 Task Definition

”Continuous Integration is a software development practice where members of a team integrate their work frequently, usually each person integrates at least daily - leading to multiple integrations per day.

Each integration is verified by an automated build (including test) to detect integration errors as quickly as possible. Many teams find that this approach leads to significantly reduced integration problems and allows a team to develop cohesive software more rapidly. This article is a quick overview of Continuous Integration summarizing the technique and its current usage.” *M.Fowler*

Use as a team (2) a virtual server instance to get used with a Continuous Integration System.

1. Install CI ”Jenkins”
2. Integrate your ”Rock the net” project
3. Provide a stable build for public download
4. Show the whole documentation of your implementation (sourcecode / API, testdocumentation, coverage analysis, etc.)

Protocolize your work in a pdf-Document.

Ressources

- <http://jenkins-ci.org/>
- <http://jenkins-ci.org/views/hudson-tutorials>
- <http://docs.python-guide.org/en/latest/scenarios/ci/>
- <http://martinfowler.com/articles/continuousIntegration.html#BuildingAFeatureWithContinuous>
- <http://www.vogella.com/tutorials/Jenkins/article.html>

Jenkins: The Definitive Guide - Continuous integration for the masses; O'Reilly Media; 2011

2 Get Started

The following instructions are documented for a DebianLAMP instance.

2.1 Installation

Use the following commands to install Jenkins over your console:

```
# Don't forget to update your machine before installing
apt-get update

# Install Jenkins
apt-get install jenkins
```

In the file `"/etc/default/jenkins"` you can have a look over the path settings for Jenkins. Make sure to set the IP-Address for HTTP and AJP to the current of your virtual instance to reach the server from your host system.