Continuous Integration

Minimum Requirements

Overview

- **Minimum requirements**
  - Hardware
  - Software
  - Development environment

Hardware

- Spare server or workstation

Software

- **Continuous Integration Server**
  - Open Source
    - CruiseControl
    - CruiseControl.NET
    - CruiseControl.rb
    - Hudson
  - Commercial
    - Cruise
    - TeamCity
    - Team Foundation Build

Development Environment

- Version control system
- Regular check-ins

The Check-In Dance

1.   If the change is significant, inform the rest of the team.

2.   Get the latest code from source control.

3.   Do a merge on any conflicts.

4.   Run the build locally and fix any problems found.

5.   Commit the changes to source control.

6.   Stop coding until the build passes.

7.   If the build breaks, drop everything else and fix the build.

From http://codebetter.com/blogs/jeremy.miller/archive/2005/07/25/129797.aspx

Continuous Integration Do's and Don'ts

- DO check in often
- DO merge changes frequently
- DO communicate with the rest of the team
- DON'T leave the build broken
- DO let the rest of the team know that you're fixing the build
- DON'T check in code over a broken build (unless you're fixing it)
- DON'T get latest if the build is broken

Summary

- **Discussed minimum requirements**
  - Hardware
  - Software
  - Development requirements