**Scenario**

* Company *Value Through IT*
* SaaS
* Caters to logistic companies
* have modules that manage warehouses, inventory, and schedule/employees
* creates software in an iterative cycle

**software development process for *Value Through IT***

* Teams responsible for warehouse, schedule, and inventory modules
  + each has their own software team
* At the end of each iteration the integration team:
  + merges the modules branches into the main source control code
  + build integrated code locally
  + pass it on to the operations team for deployment

**deployment process for *Value Through IT***

* integration team integrates the code which results in a release
  + includes docs such as installation instructions

**What is Continuous Integration?**

* Continuous Integration (CI) is a *development practice* that requires developers to integrate code into a *shared repository several time* a day

*No CI*

**A picture containing company name

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Diagram

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*Using CI*

**AUTOMATED**

* Continuous Integration Benefits
  + integration takes less effort
  + issues will come up earlier (gives you more time to correct issues)
  + automation means less issues
  + the entire process is more visible
  + improved team communication
  + short integration iterations, means more flexibility
  + the code is ready to be delivered more often

**Implementing Continuous Integration**

* Get a single source control repository
  + branching strategy
  + merge to a single repository
  + collaboration
* Create a build pipeline
  + create an automated build process
    - setup a dedicated server
    - install a build engine
    - create build definition(s)
  + create an automated test process
    - run static tests with the build
    - deploy the build result to a temporary environment
    - run UI tests