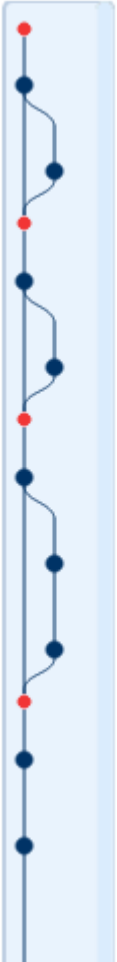


Build Breakage on Continuous Integration Systems

Stef van Schuylenburg

Continuous Integration

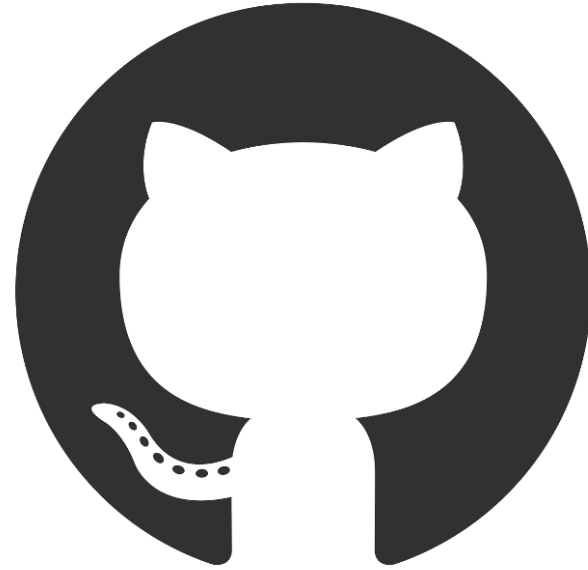


- Reduces the integration problems
- The practice of merging the source code
- Automated builds and tests
- Builds may break

Why do builds fails?

Continuous Integration Systems

Continuous Integration Systems
















Continuous Integration Systems



Continuous Integration Systems



- Repair Time
- Output Logs
- CI System Configuration
- Additional Attributes

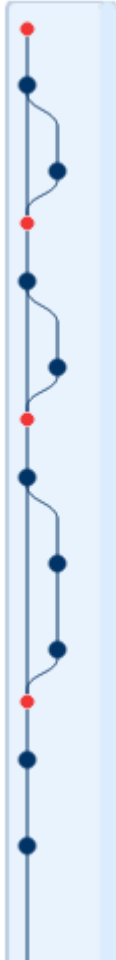
Build History		(trend) 
	#735	Nov 25, 2014 8:56:00 AM
	#734	Nov 24, 2014 5:52:40 PM
	#733	Nov 24, 2014 3:48:52 PM
	#732	Nov 24, 2014 8:56:01 AM
	#731	Nov 23, 2014 10:26:33 PM
	#730	Nov 23, 2014 6:15:56 PM
	#729	Nov 23, 2014 5:52:46 PM
	#728	Nov 23, 2014 5:07:40 PM
	#727	Nov 23, 2014 4:46:33 PM
	#726	Nov 23, 2014 4:25:09 PM
	#725	Nov 23, 2014 3:53:43 PM
	#724	Nov 23, 2014 3:32:19 PM

```

[13:53:02]    Checking for changes
[13:53:04]  ⊕ Ant JUnit report watcher
[13:53:04]  ⊕ Publishing internal artifacts
[13:53:04]    Clearing temporary directory: Z:\TeamCityAgent\temp\buildTmp
[13:53:04]    Checkout directory: Z:\TeamCityAgent\work\783a2eab7913286e
[13:53:04]  ⊕ Updating sources: server side checkout (5s)
[13:53:10]  ⊕ Step 1/3: fetch library dependencies (Ant) (16s)
[13:53:27]  ⊕ Step 2/3: bootstrap (Command Line) (23s)
[13:53:50]  ⊖ Step 3/3: tests (Ant) (12m:43s)
[13:53:50]    [Step 3/3] Starting: "C:\Program Files (x86)\Java\jdk1.7.0_45\bin\java.exe" "-DMono=C:\Program Files
[13:53:50]    [Step 3/3] in directory: Z:\TeamCityAgent\work\783a2eab7913286e
[13:53:52]  ⊕ [Step 3/3] clean
[13:53:53]    [Step 3/3] check_for_optional_packages

```


Why do builds fail?



Build History		(trend) =
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