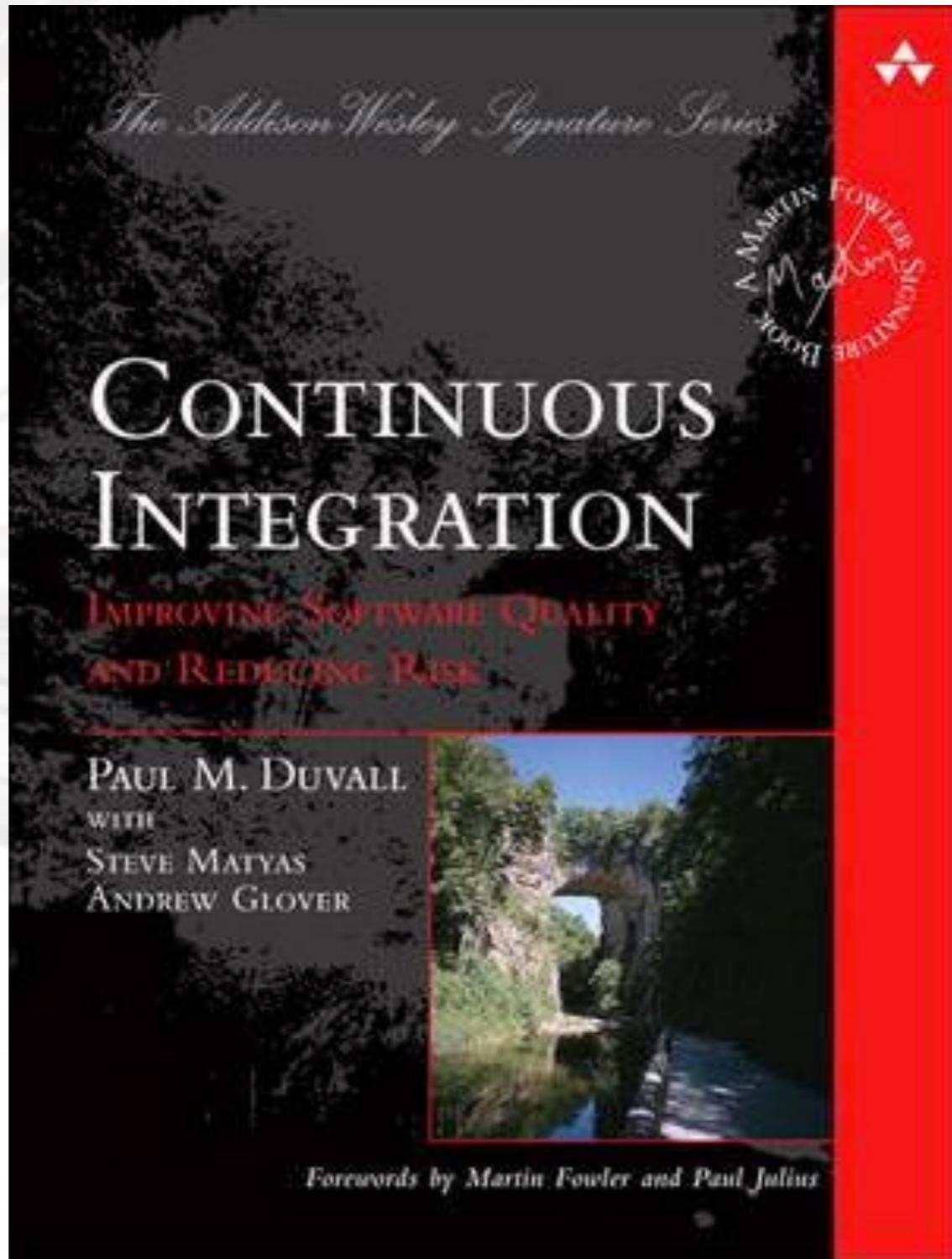


Continuous Deployment



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Continuous Integration



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Continuous Deployment

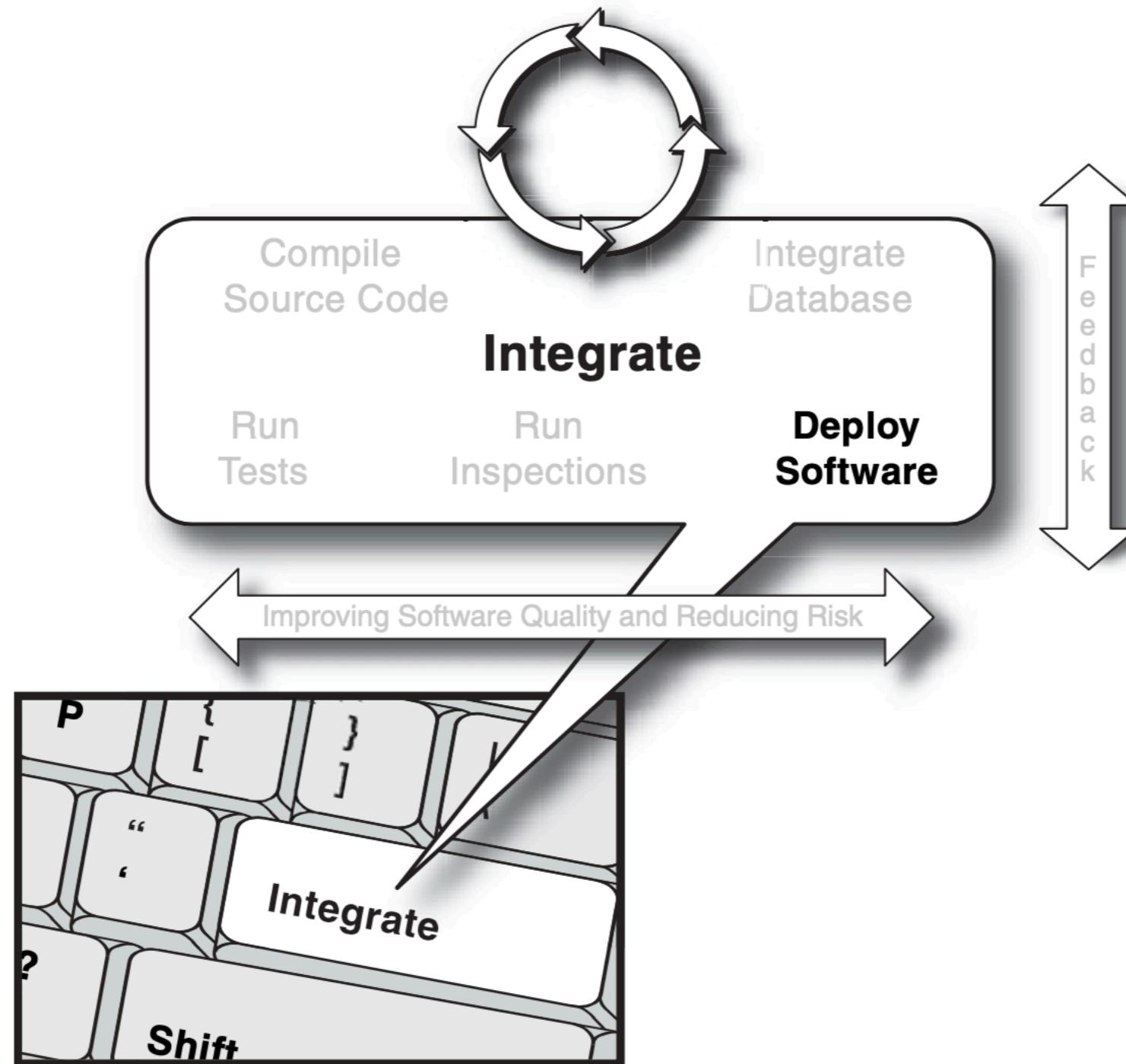


FIGURE 8-1 Integrate button—deploy software



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Release Working Software Any Time, Any Place

Deploying working software principally embodies six high-level steps.

1. Label a repository's assets.
2. Produce a clean environment, free of assumptions.
3. Generate and label a build directly from the repository and install it on the target machine.
4. Successfully run tests at all levels in a clone of the production environment.
5. Create build feedback reports.
6. If necessary, you can roll back the release by using labels in your version control repository.



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Label a Repository's Assets

“Creating a repository label facilitates the identification and tracking of assets, as it clearly delineates a group of files as belonging together.”

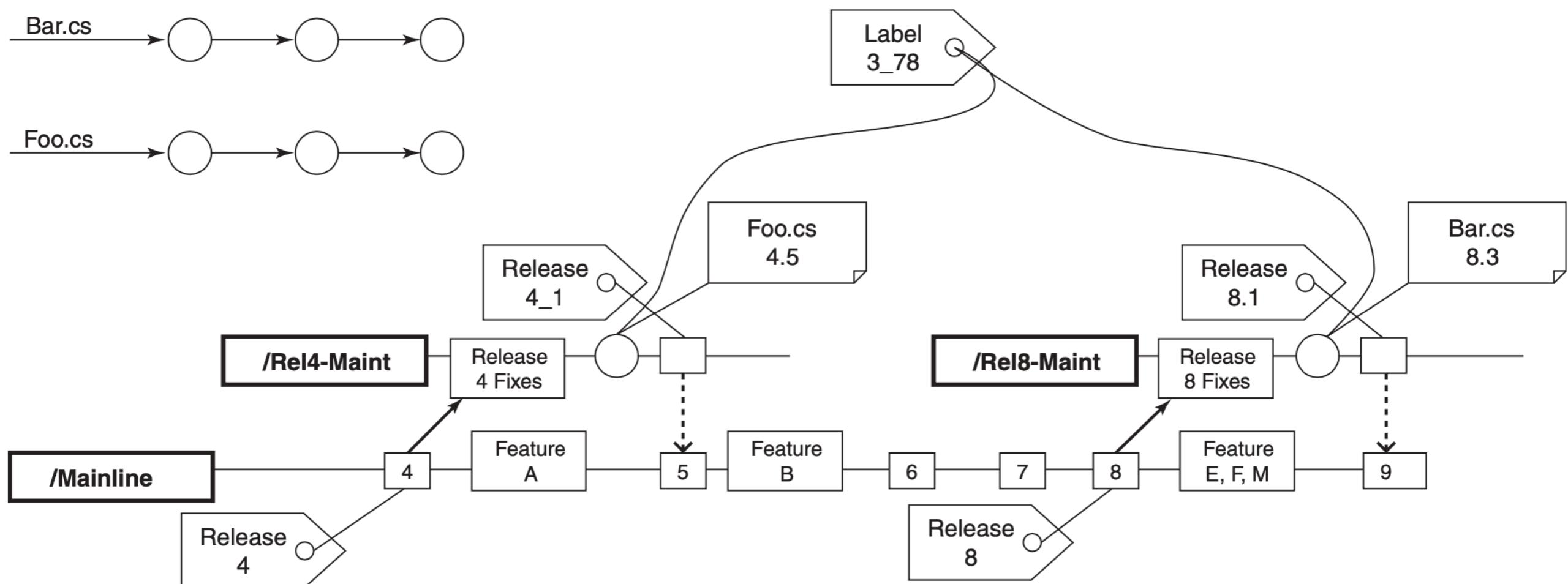


FIGURE 8-2 Foo.cs and Bar.cs in the same repository



Produce a Clean Environment



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Label Each Build

Build History [trend](#)

find

 #1.0.11	416 KB
14-okt-2015 14:38	
 #1.0.16	435 KB
15-okt-2015 11:24	
 #1.0.15	435 KB
15-okt-2015 11:20	
 #1.0.14	435 KB
15-okt-2015 11:20	
 #1.0.13	 435 KB
15-okt-2015 11:19	
 #1.0.10	415 KB
14-okt-2015 11:22	
 #1.0.9	415 KB
14-okt-2015 11:22	
 #1.0.8	415 KB
14-okt-2015 11:17	
 #1.0.12	 417 KB
15-okt-2015 10:12	
 #1.0.7	415 KB
14-okt-2015 11:16	

 [RSS for all](#)  [RSS for failures](#)



Run All Tests



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Create Build Feedback Reports

#18

 **Bygge #18 (2015-nov-20 22:33:57)**

Git Changelog changelog

Changelog of Git Changelog.

pull-request-notifier-for-bitbucket-2.12

GitHub #82

[c19f72f04d33d9e](#) Tomas Bjerre 2015-11-09 16:36:20
Fixing PULL_REQUEST_URL-bug correctly with getSlug #82

No issue

[0cd2c14c0b1f1e3](#) Tomas Bjerre 2015-11-09 16:28:05
Renaming application variable to lowercase

pull-request-notifier-for-bitbucket-2.11

GitHub #82

[1e2d237a8c565b9](#) Tomas Bjerre 2015-11-06 19:27:17
Replacing spaces with dashes in PULL_REQUEST_URL #82 * Was evaluating to wrong URL if repo name included spaces.

pull-request-notifier-for-bitbucket-2.10

GitHub #78

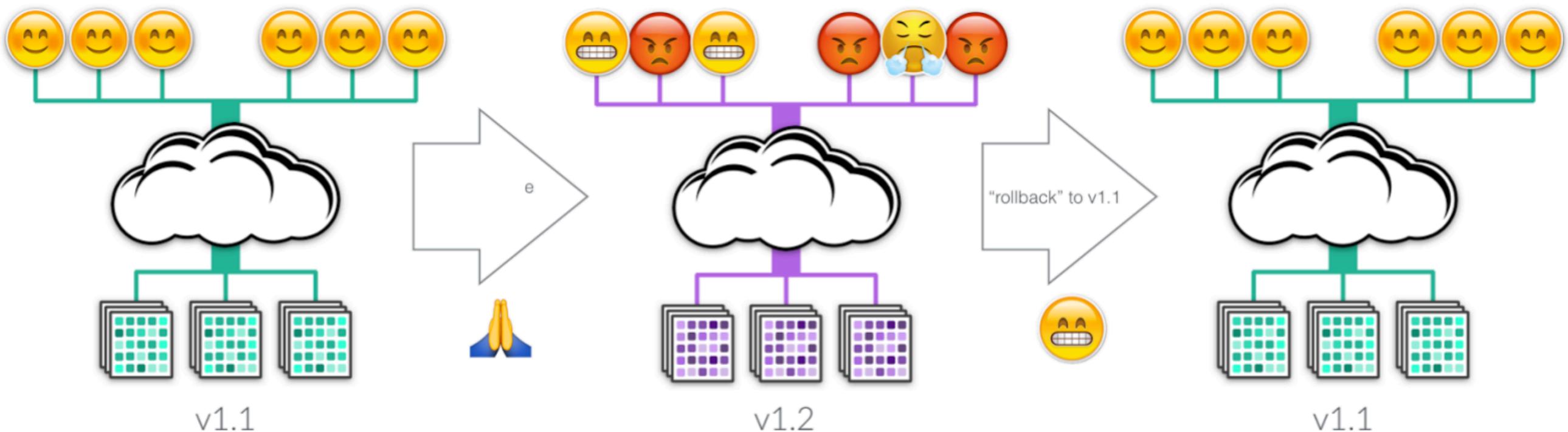
[eef94cd53904b7e](#) Tomas Bjerre 2015-10-16 15:48:32
Processing events on Bitbucket Server's event threads #78

pull-request-notifier-for-bitbucket-2.9

GitHub #76



Possess Capability to Roll Back Release



Continuous Deployment

TABLE 8-1 CI Practices Discussed in This Chapter

<i>Practice</i>	<i>Description</i>
Release working software any time, any place	By running a fully automated build including compilation, all tests, inspections, packaging, and deployment, you have the capability to release working software at any time and in any known environment.
Label a repository's assets	Label the files for your project in your version control repository. Typically, this is performed at the end of a project milestone.
Produce a clean environment	Remove all files, configuration changes, servers, and anything else from your integration build machine and ensure you can rebuild back to a state where your integration build is successful. The more scripted this process is, the better.
Label each build	Label the binary artifacts of a build distribution in your version control repository.
Run all tests	Run all tests against the software. This includes unit, component, system, functional, and perhaps even performance, load, and other types of tests that ensure the software is ready to be delivered (to the next stage or even to production).
Create build feedback reports	List the changes that were made in the most recent build. This can be useful for other teams in the delivery process, such as QA.
Possess capability to roll back release	Something can always go wrong, so use your build labels to roll back any changes that shouldn't have been committed to the version control repository.





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