CI, CD & Jenkins

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Continuous Integration , Continuous Delivery

What is CI & CD..?

1) Continuous Integration:

- basically just means that the developer's working copies are synchronized with a shared mainline several times a day.
- automated build and execution of at least unit tests to prove integration of new code with existing code, but preferably integration tests

2) Continuous Delivery:

- It is described as the logical evolution of continuous integration: Always be able to put a product into production!
- Automated publication and release of the system into production. This is CD into production plus any other configuration changes like setup for A/B testing, notification to users of new features, notifying support of new version and change notes, etc.

3) Continuous Deployment :

- It is described as the logical next step after continuous delivery: Automatically deploy the product into production whenever it passes QA!
- Automated deployment when code passes CI at least into a test environment, preferably into higher environments when quality is proven either via CI or by marking a lower environment as PASSED after manual testing. I.E., testing may be manual in some cases, but promoting to next environment is automatic.

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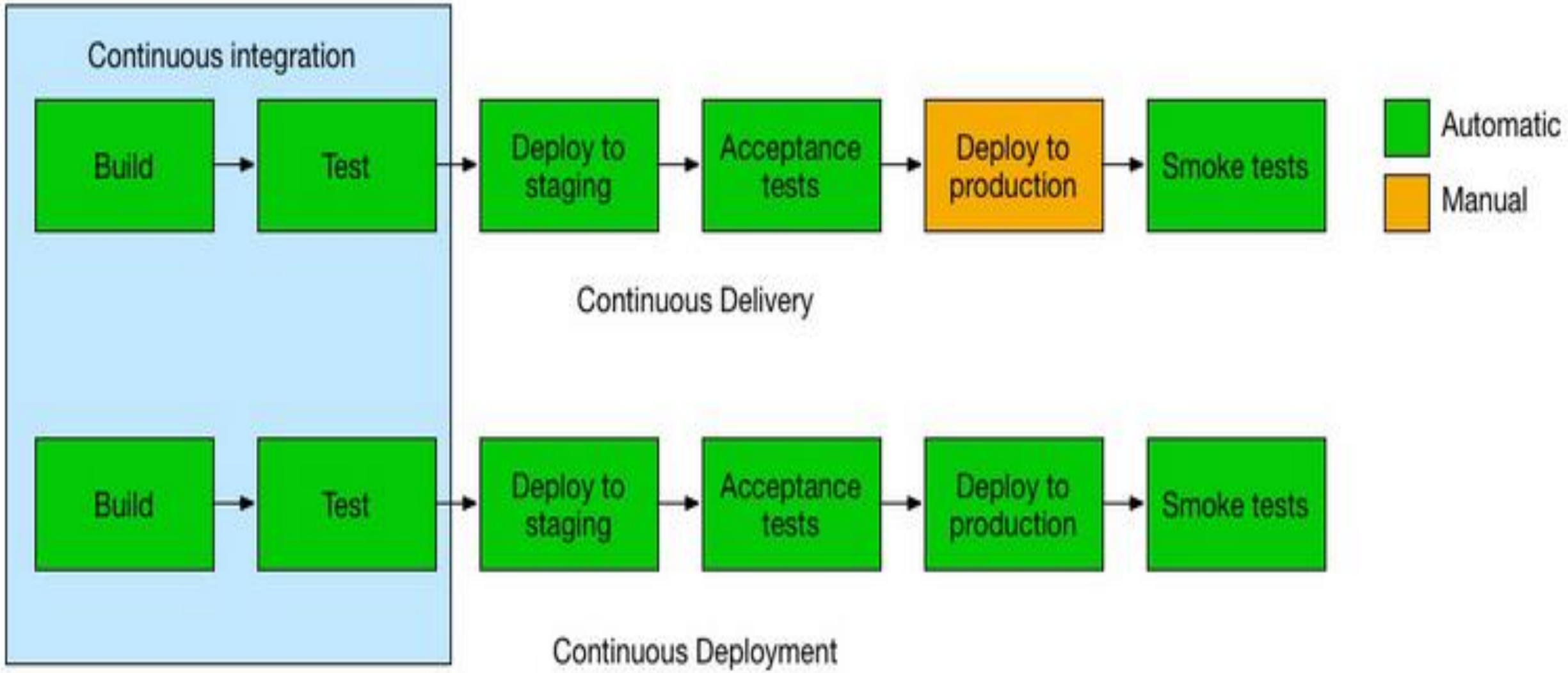
CI & CD Flow



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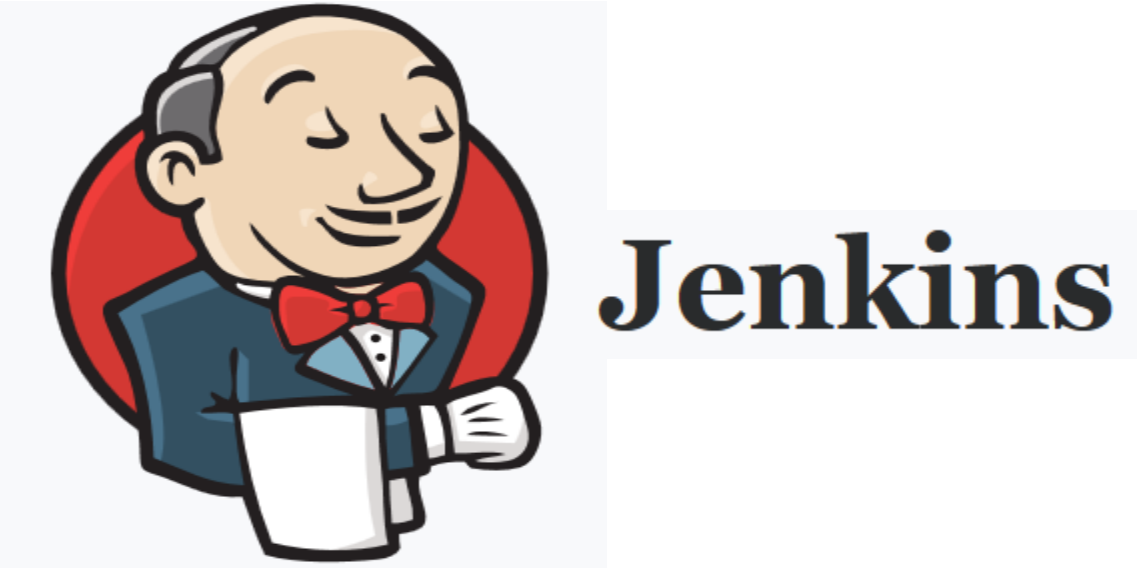
Jenkins

What is Jenkins..?

1) Jenkins is a self-contained, open source automation server which can be used to automate all sorts of tasks related to building, testing, and delivering or deploying software.
2) Jenkins can be installed through native system packages, Docker, or even run standalone by any machine with a Java Runtime Environment (JRE) installed.



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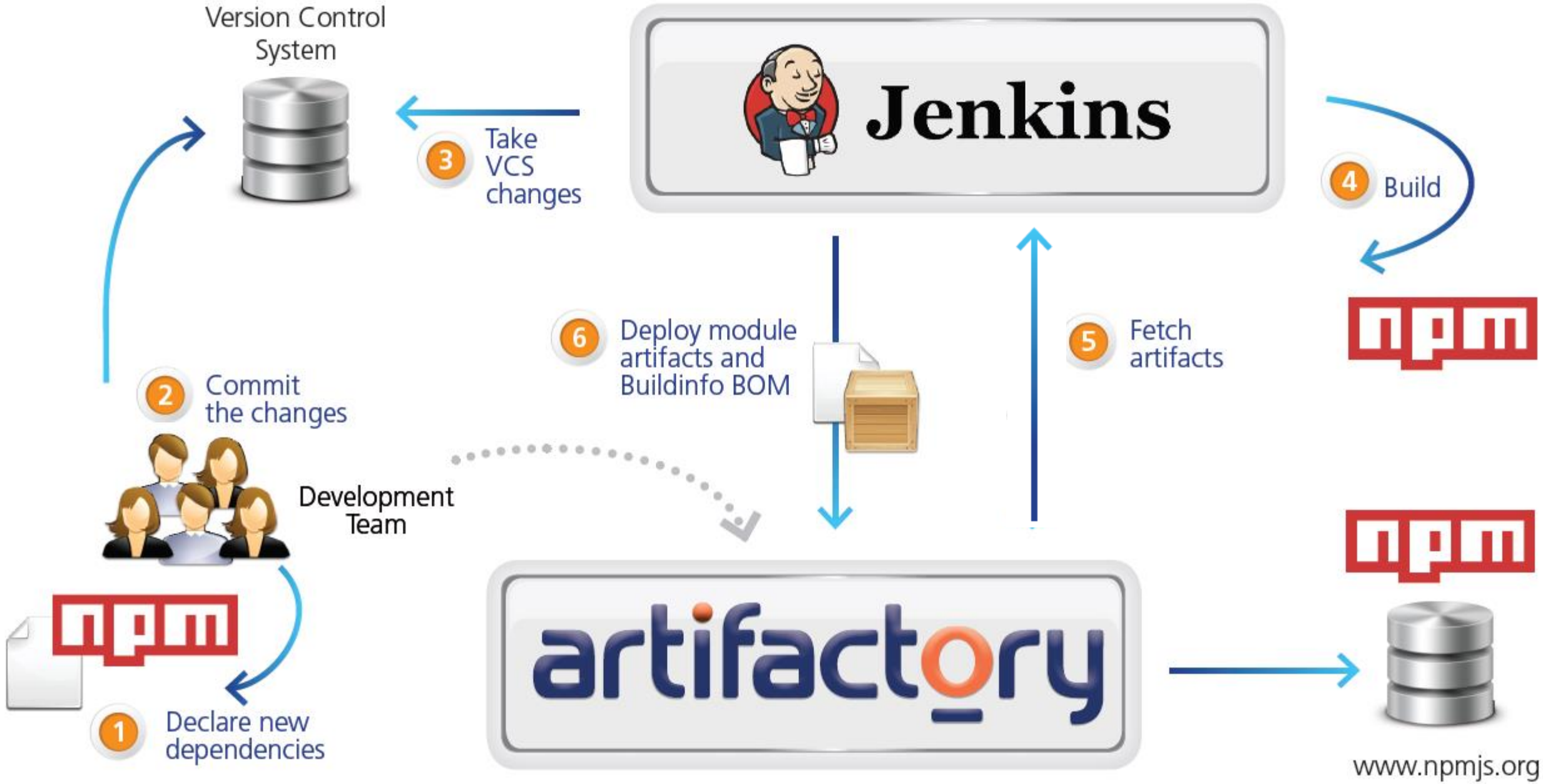
Jenkins Flow Diagram



Reference

https://jenkins.io/doc/

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