

LU02b - Jenkins' architecture

Internal reference: learningunits/02-2.md

Goals

1. I can explain (in my own words) the roles and responsibilities of the Jenkins master (controller) and agents (Master-Agent architecture)
2. I can explain (in my own words) how build tasks are delegated, and how communication between master and agents occurs.
3. I can distinguish between vertical scaling (adding more resources to a single instance) and horizontal scaling (adding more master instances).
4. I can identify the benefits and trade-offs of each scaling approach for performance, maintenance, and reliability.
5. I recognize the importance of test and production environments.
6. I understand why Jenkins setups should include separate test and production instances to ensure stability and safe testing of upgrades, plugins, and pipelines.

Basics

In [this article](#), you will learn about Jenkins architecture and its parts.

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Exercises

Make your own notes while reading the article.



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