## 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.

Internal reference 02-2.md

## **Exercises**

Make your own notes while reading the article.



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