Jenkins VS Circle CI - Jack, Nancy, Costi

Features	Jenkins	CircleCI
1. Ease of Use	New DevOps might find it difficult to orchestrate and navigate	Runs a simple integration process
2. Hosting	Self-hosted	Managed cloud hosting or self-hosted
3. Community Support	Has a strong community support, including documentation, webinar, videos	Runs a smaller community but the detailed documentation covers it all
4. Debugging	Require manual DevOps testing and integrated team support for debugging	Easier to debug with SSH and automated DevOps testing
5. Docker Workflow	No Built-in support for Docker	Built-in support for Docker
6. Security	Single layer of security for CI fleet. Requires manual set up for more security.	Has a secure build environment
7. Permissions	Need to be set up manually and cannot be imported from other sources or security systems.	Can be adopted from VCS
8. Parallelism	Supports Parallelism	Comprises an in-built feature to enable Parallelism
9. Speed	Based on the efficiency of the plugins	Docker layer caching, resource classes, cache dependencies help in speeding up the builds
10. Plugin Support	Large plugin ecosystem	Comprises decent number of Orbs – plugins
11. User Interface	Heavy and clumsy Interface	Interactive user interface
12. Set up and Maintenance	Requires installing JRE to set up the tool. For maintenance, a dedicated resource is needed.	Being cloud-based no initial setup is required. However, enterprise version of the tool is also easy to setup and maintain. Out of the box solutions are provided for the tool.

Jenkins depends on plugins for the CI process which are installed and managed manually , whereas Circle CI does not require this .

Price- CircleCI offers a free version however this provides you with limited access,anything more requires a paid plan, whereas Jenkins is completely free

Jenkins has a broader user base and a vast plugins eco-system, which provides extensive customization options and integration capabilities. CircleCI on the other hand focuses on simplicity and ease of use.
Jenkins requires more effort for initial setup and configuration, as it needs to be hosted and managed by the user. CircleCI, being cloud-based, eliminates the need for infrastructure management.
Jenkins is like a superhero with many powers, while CircleCI is like a magic trick that makes things fast and easy. It depends on what you need for your project!

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Jenkins Supports:
- Java
- JavaScript
- Groovy
- Golang
- Ruby
- Shell scripts

Languages and Databases - CircleCI:
Python, Ruby, JavaScript, Java, Clojure, PostgreSQL, MySQL and more.

CircleCI Pros:
- Easy to set up
- Enhance Productivity: Better to build, test and deploy in CircleCI
- CircleCI has built-in plugins to run tasks in linux, osx, and containers
- It stores all your encrypted variables and shares them with the build containers using SSH (Secure Shell)

CircleCI Cons:

- Available for only GitHub or BitBucket repositories
- Plugins are not compatible with every CI/CD (Continuous Integration/Continuous Delivery pipeline) flow customization
- Requires purchasing extra credits as the tool does not have unlimited builds.