



# CONTINUOUS INTEGRATION TOOLS COMPARISON TRAVISCI VS CIRCLECI VS JENKINS

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# CONTINUOUS INTEGRATION

- Continuous Integration is a software development practice where members of a team integrate their work frequently, verified by an automated build including test to detect integration errors

# TRAVIS CI

- distributed, build system for open source community for Continuous Integration
- It is integrated with GitHub
- Things travis can do
  - Run tests, provide feedback, build artifacts, check code quality, deploy cloud services, monitor GitHub projects.
- Features
  - Encrypt secure environment variables or files, parallel builds, cli client and api for scripting

# JENKINS

- Self contained java based program
- Continuous integration server
- Flexible & extensible 100's of plugins
- Open Source

# CIRCLECI

- Cloud based system
- Advanced in testing
- Docker support
- Caches requirement installations

# TRAVISCI

## ADVANTAGES

- Fast Start
- YAML config
- Free for open source
- No dedicated server required

## DISADVANTAGES

- Costs higher compared to others
- Customization through 3<sup>rd</sup> parties

# JENKINS

## ADVANTAGES

- Free
- Customization
- Plugin System
- Full control of System

## DISADVANTAGES

- Dedicated Servers
- Requires time for configuration

# CIRCLECI

## ADVANTAGE

- Supports Ubuntu and MacOS
- Github, bitbucket support
- Aws, Docker, Azure, Dedicated sercer
- Easy and fast to start

## DISADVANTAGE

- Support for few languages compared to other
- Problems with customization
- Can stop supporting any softwares

# CONTINUOUS INTEGRATION

## TRAVISCI

- Github Integration
- Free for open source
- Easy integration, and setup
- Automatic deployment
- Support for many languages
- Excellent documentation
- Easy config with YAML

## CIRCLECI

- Github integration
- Competitively priced
- Easy Integration
- Quick setup
- Support for queus
- Supports 8 languages and 16 databases
- Easy configuration with YAML
- SSH support

## JENKINS

- Hosted Internally
- Free open source
- Great to build, deploy or launch anything  
async
- Scalable
- Safe to store key environment variable
- Cross platform bult support