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Automated Builds CI+CD

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Automated Builds

Automated Builds & DevOps

- DevOps: Group of techniques to deploy high-speed quality products
- Automated Builds: Process of converting files and other assets to a software product that works in its final form (traditional building) automatically.
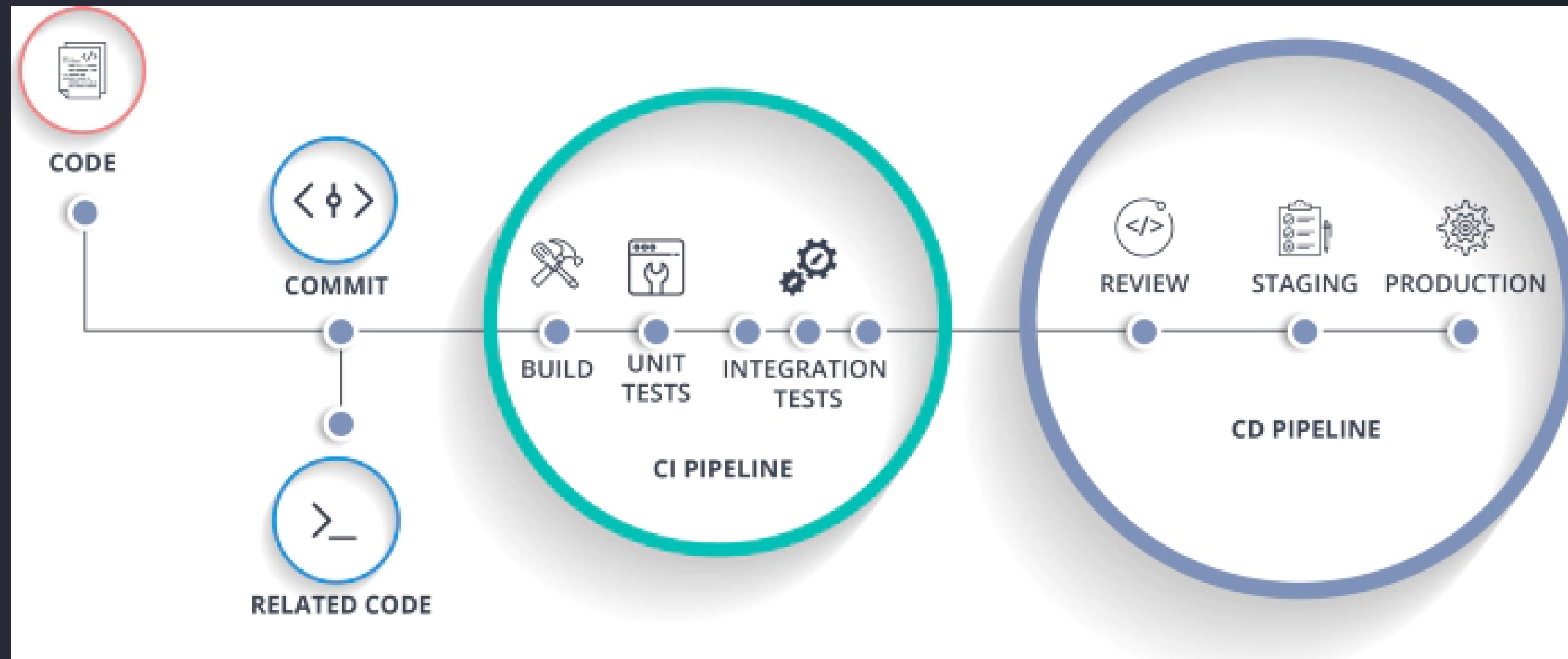
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CI/CD Pipeline

What is CI

What is CD

MARKET STUDY: CHOOSING THE BEST CI/CD TOOL

Name	Minutes/month	MB
GitHub Actions	2000	500 MB
Jenkins	∞ *	∞ *
Circle CI	2500 credits/week**	Depends on the OS
GitLab	400	10GB

*You host the infrastructure
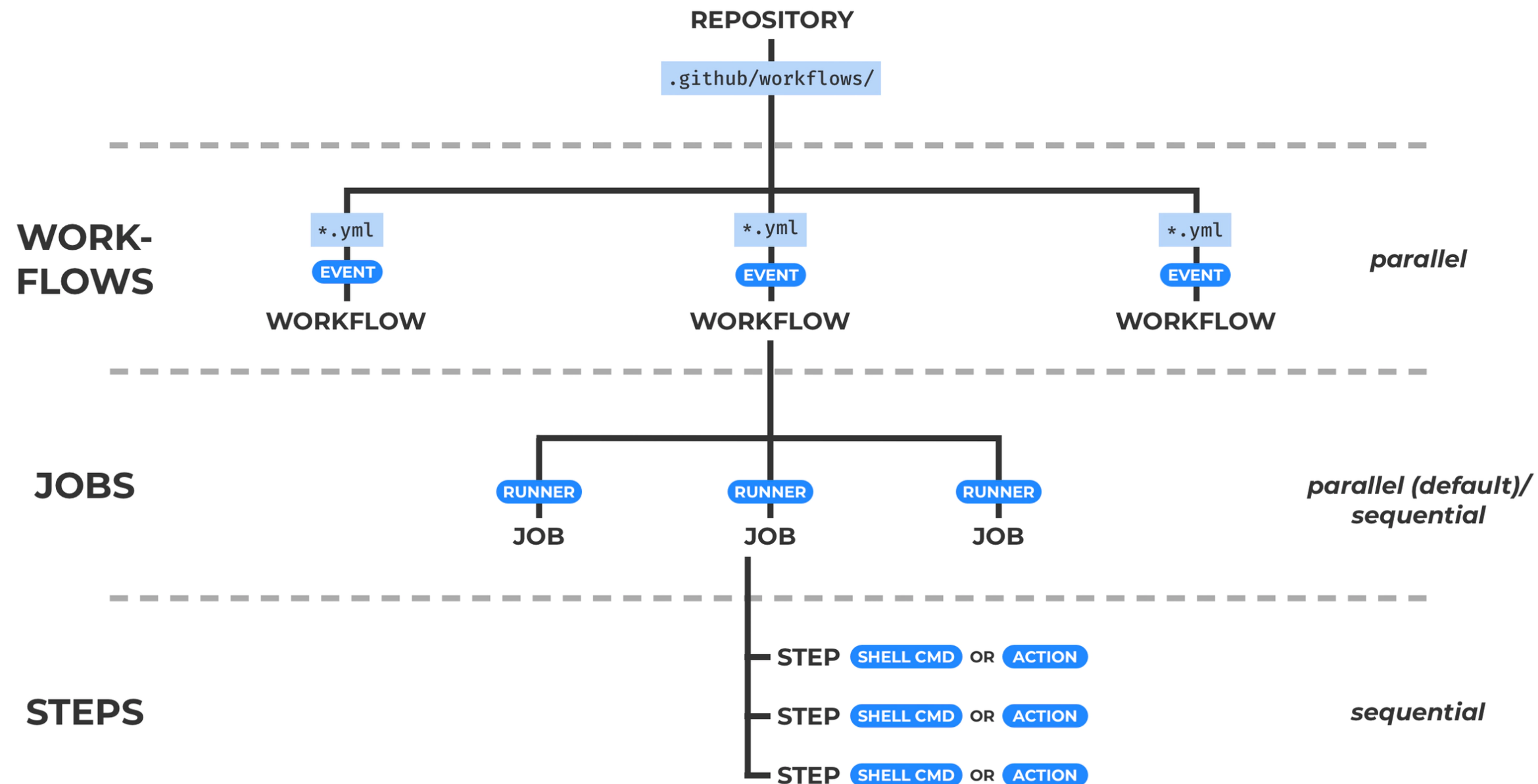**Credits are used instead of minutes, the credit usage depends on the type of platform

Pitch

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GitHub Actions

Basic Concepts of GitHub Actions

GitHub Actions

REPOSITORY

`.github/workflows/`

WORK-FLOWS

`*.yml` EVENT WORKFLOW

`*.yml` EVENT WORKFLOW

`*.yml` EVENT WORKFLOW

parallel

JOBS

RUNNER JOB

RUNNER JOB

RUNNER JOB

parallel (default)/ sequential

STEPS

STEP SHELL CMD OR ACTION

STEP SHELL CMD OR ACTION

STEP SHELL CMD OR ACTION

sequential

Pitch

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Setting Up Actions

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Bonus: Automatic Releases