

Continuous Integration in the Cloud

www.clouda.ca



con·tin·u·ous in·te·gra·tion

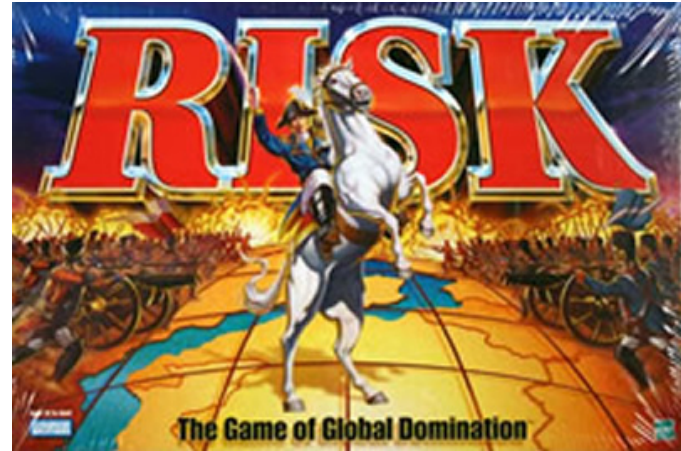
kən'tinyoʊəs/ ,in(t)ə'grāSH(ə)n/

Continuous Integration (CI) is a development practice that requires developers to integrate code into a shared repository several times a day. Each check-in is then verified by an automated build, allowing teams to detect problems early.



Why CI?

- Reduce Risk
 - Frequent integration
= find defects
sooner, fix quicker
 - Smaller gap between
dev and prod
 - Metrics measure app
health



Why CI?

- **Reduce Overheads**
 - Investment in CI system reduces labour costs
 - Bugs found in dev are the cheapest bugs
 - CI can replace internal QA process
- **Automate Processes**
 - Repetitive process is prone to human error
 - Automation reduces repetitive processes
 - Less repetitive process = less labour cost

Why CI?

- CI for QA
 - release deployable SW at any point in time
 - faster time to market
- Better project visibility
 - Metrics and trend reporting
 - Enables informed decision making
 - Documentation



CI in the Cloud

- Rapidly deploy elastic CI environ.
- Terminate CI environ. when not needed
- Only pay when in use
- APIs = Automatable
- Config mgmt tools to automate deployments

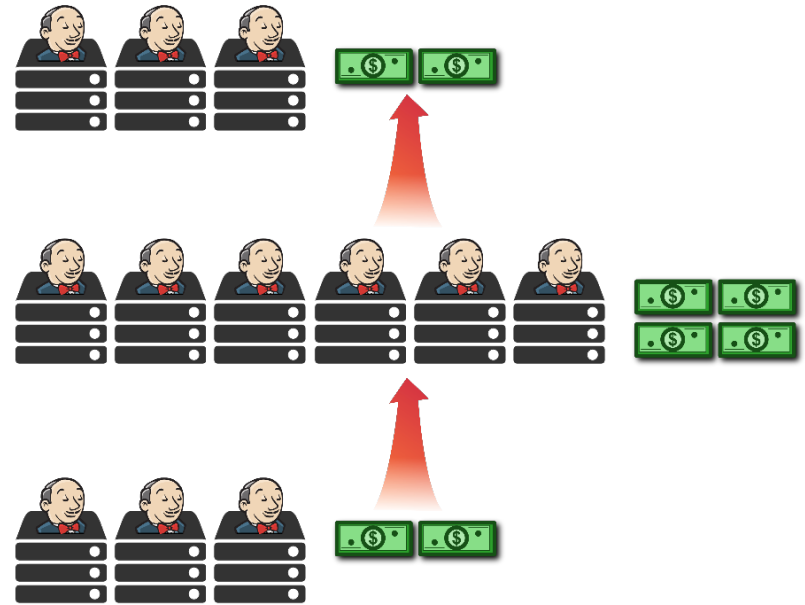
CI Systems

- Jenkins CI
 - Open source, Cloud-A's Fav.
- Gitlab CI
 - Open source, requires Gitlab
- Bamboo
 - Atlassian product



Dynamically Scale your CI Environment

- Master/Slave CI systems may require many slaves (Jenkins)
- Dynamically scale with cloud infrastructure as required
- Utility billing allows for quicker + cheaper jobs
- Eliminate idle infrastructure



Questions?

More information:

<https://www.clouda.ca/blog/general/continuous-integration-cloud/#more-1026>

Or talk to the Cloud pros.

info@clouda.ca

