

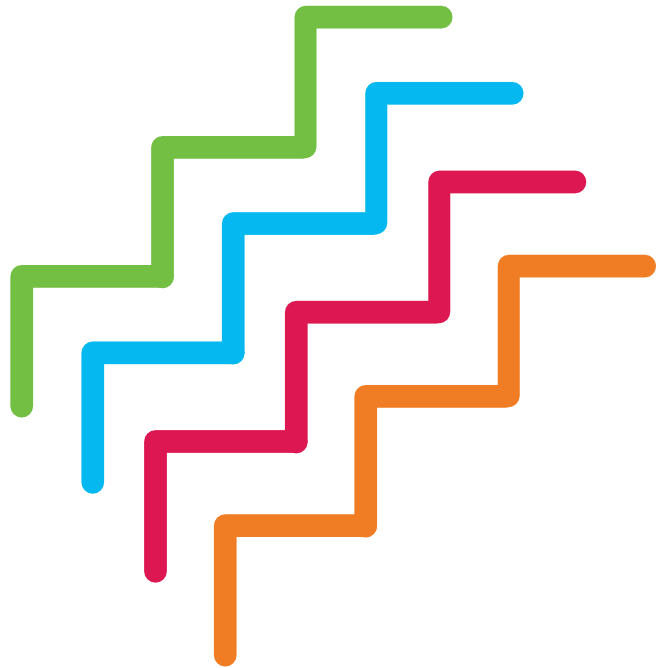


quadi⁷ent

Continuous Integration is a MUST

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17.8.2017 | Summer Lightning Storm Hradec Kralove



- **Nazvoslovi**

- CI, CD, CD

- **Proc**

- automatizace
- kvalita kodu
- mnoho kroku

- **Jak**

- .yml config file
- GUI

- **Software**

- gitlab pipelines, team city, Mike Grabowski travis, codeship, jenkins, cruise controll, shell scripty



"Even the best plan will fail, if you forget
continuous integration testing"



Nazvoslovi – neni jednotne

■ CI – Continuous Integration

- Pravidelne mergovani master vetve :D
- Spusteni testu – informovani o chybach
- Integracni testy mohou byt casove narocne

■ CD – Continuous Delivery

- Vyreleasovani verze (do NPM, Artifactory...)

■ CD – Continuous Deployment

- Continuous Delivery + smoke tests + nasazeni do produkce



Vsichni jsme prece NINJA programatori





Proc Continuous Integration

■ Automatizace

- mene prace programatora
- automaticke verzovani SemVer

■ Udrzet kvalitu kodu

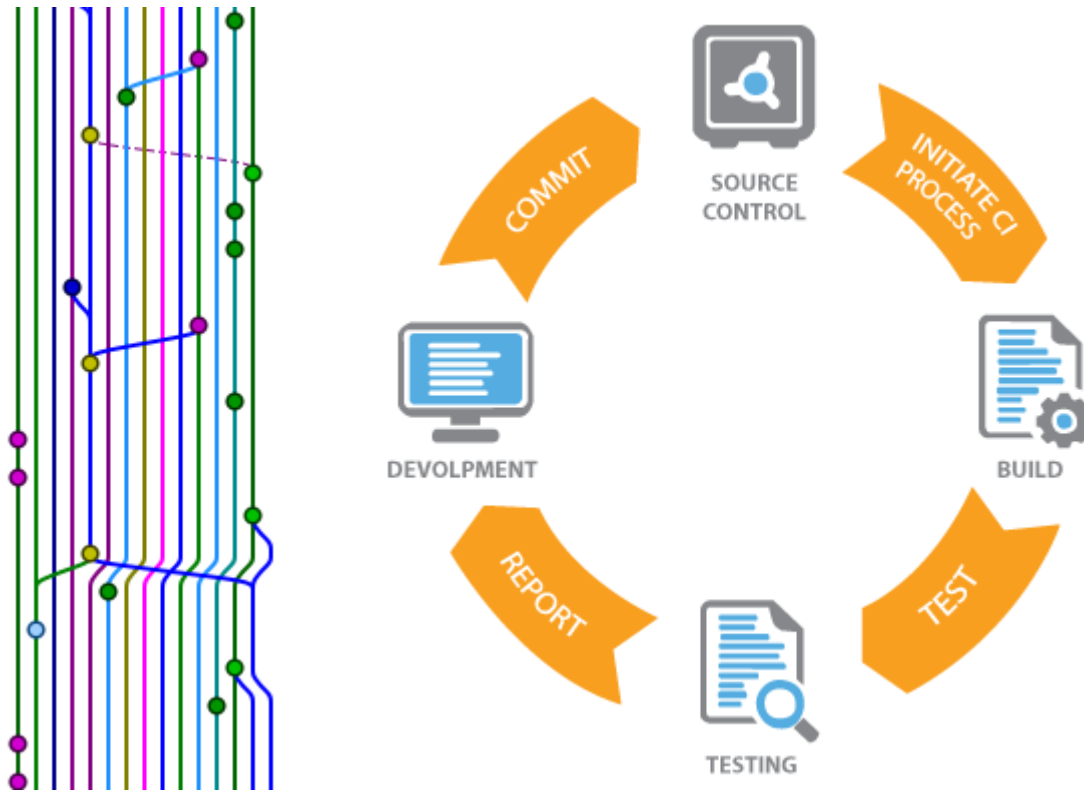
- zodpovednost neskaluje (“discipline is hard, discipline doesn’t scale” Mike Grabowski WebExpo)
- kazdej ma nekdy spatnej den
- presne vim ktery commit byl jeste v poradku

■ Zapojeni mnoha zdlouhavych souslednych kroku

- aktualni zavislosti – externi knihovny
- kompilace
- build
- linting



Proc Continuous Integration 2



- **Vetsi projekty nutne potrebuji automatizaci testu a buildu**

- Udrzovani mnoha podporovanych verzi (cca 10 na jeden produkt)



Jak - .yaml nebo GUI

```
before_script:
  - call npm install
  - call npm install grunt -g

stages:
  - build
  - test
  - deploy

test:
  stage: test
  script:
    - grunt default --force

deploy latests:
  stage: deploy
  script:
    - git config user.email "..."
    - git config user.name "..."
    - call grunt exec:git_master deploy --force
  when: on_success
  only:
    - master

deploy 1.0.x:
```

The screenshot shows the Jenkins web interface. At the top, there are tabs for 'Projects', 'Changes', 'Agents' (3), and 'Build Queue' (0). The user is logged in as 'Guest user'. Below the tabs, there are buttons for 'Up' and 'Down' arrows, and a checkbox for 'Hide Successful Configurations'. The main content area shows a list of builds for the 'Phoenix' project. The first build, 'Build 11.4', is highlighted in red and has a status of 'Tests failed: 1, passed: 3178, ignored: 86'. The other builds are green, indicating they passed. Each build entry includes a build number, a status icon, a summary of test results, links for 'Artifacts' and 'Changes', the user who triggered the build, and the time since the build was completed.

Build	Status	Tests	Artifacts	Changes	User	Time
Build 11.4	Failed	Tests failed: 1, passed: 3178, ignored: 86	Artifacts	john.doe (1)	john.doe	2 hours ago (10m:34s)
Build 11.3	Passed	Tests passed: 1800, ignored: 1205	Artifacts	c.norris (1)	c.norris	2 hours ago (11m:44s)
Tym A je to	Passed	Tests passed: 3194, ignored: 86	Artifacts	Changes (5)	Changes (5)	3 hours ago (10m:54s)
Tym Null	Passed	Tests passed: 3110, ignored: 85	Artifacts	Changes (45)	Changes (45)	14 days ago (8m:49s)
Tym R2D2	Passed	Tests passed: 3197, ignored: 92	Artifacts	a.kucera (1)	a.kucera	5 hours ago (11m:04s)



Software

■ Zdarma

- GitLab Pipelines
- Travis
- Jenkins
- Cruise Controll
- shell scripty ;)

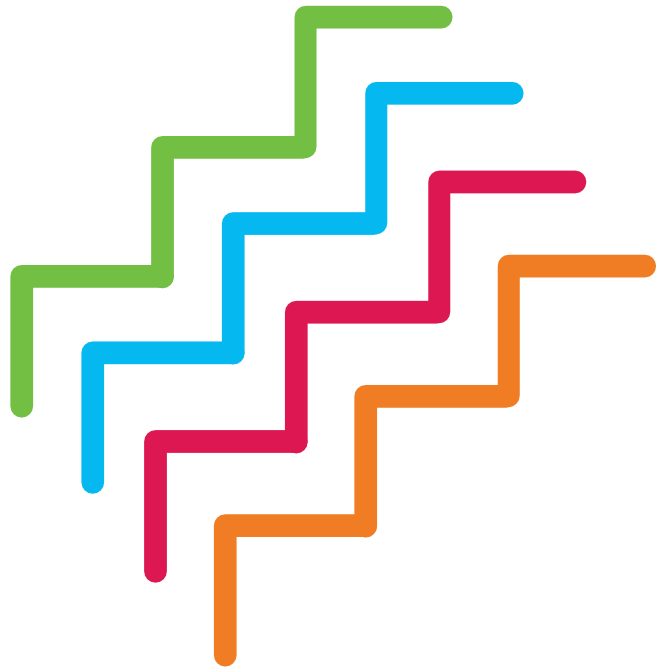
■ Placene

- Code Ship – 100 uspesnych buildu mesicne zdarma
- Team City



Cil – uživatel si kóduje





■ Nazvoslovi

- CI, CD, CD

■ Proc

- automatizace
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- mnoho kroku

■ Jak

- .yml config file
- GUI

■ Software

- gitlab pipelines, team city, Mike Grabowski travis, codeship, jenkins, cruise controll, shell scripty

Questions





Thank you!

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