

Radim Daniel Pánek

Software Engineer in Test

@RDPanek | rdpanek.cz | medium.com/@RDPanek

[pro  TEST!

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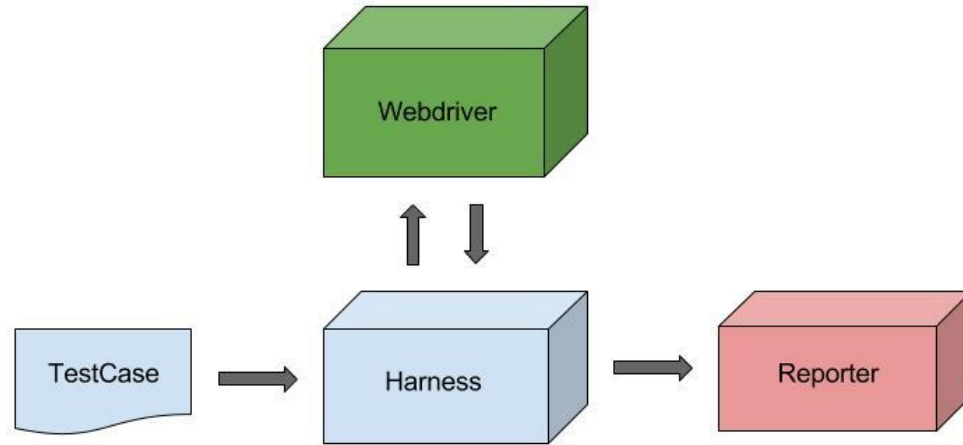
Test stack

Je soubor nástrojů, frameworků, knihoven a dalšího software, návrhy TC, architektury, infrastruktury, postupy a mnoho dalšího co automatizaci testů doprovází.

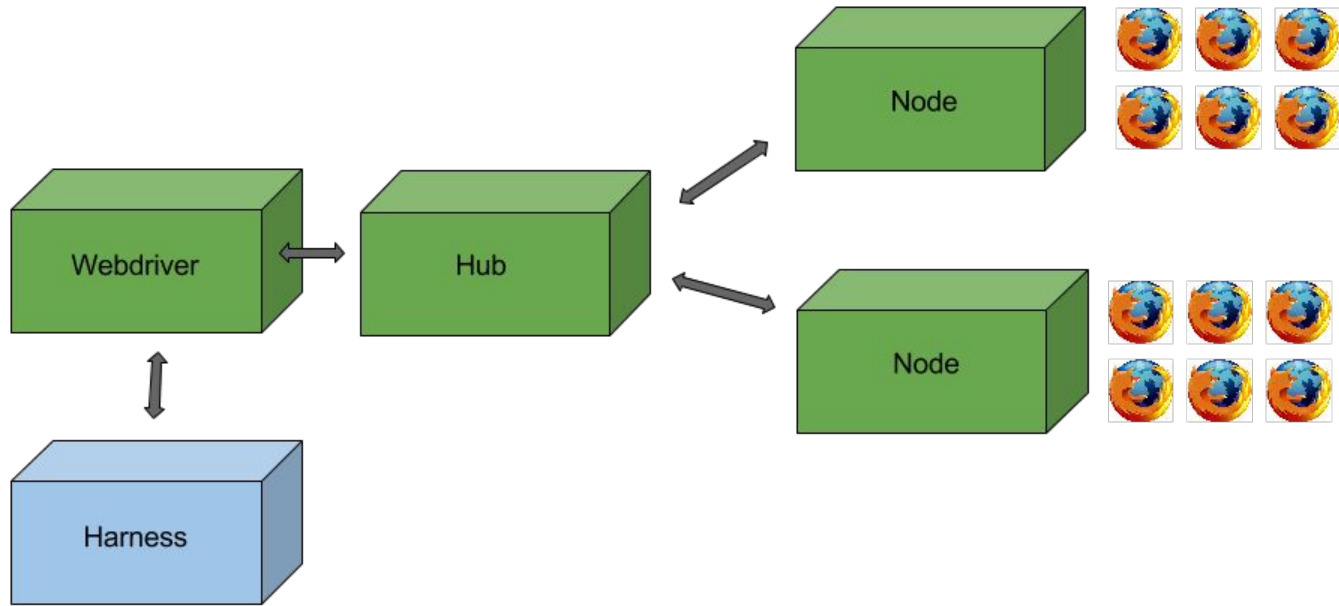
E2E tests

- Harness (testovací framework)
- TestCase
- Selenium grid (automatizace prohlížeče)
- Reporter (rozhraní, které předává zprávy)
- Elasticsearch (úložiště)
- Kibana (prohlížeč logů)
- Grafana (prohlížeč logů)
- Docker (přenositelnost nástrojů a nastaveného prostředí)
- Jenkins, ..., ...

Test stack - Harness



Test stack - Selenium grid



TestCase

```
module.exports = ->
```

```
nameOfBook = 'The Art of Application Performance Testing'
```

```
describe "Add book #{nameOfBook} to basket", ->
```

```
  homepage.open 'http://www.amazon.com/', 'Amazon.com: Online Shopping for Electronics, Apparel, Computers, Books, DVDs & more'
```

```
  amazon.homepage.find 'Books', nameOfBook
```

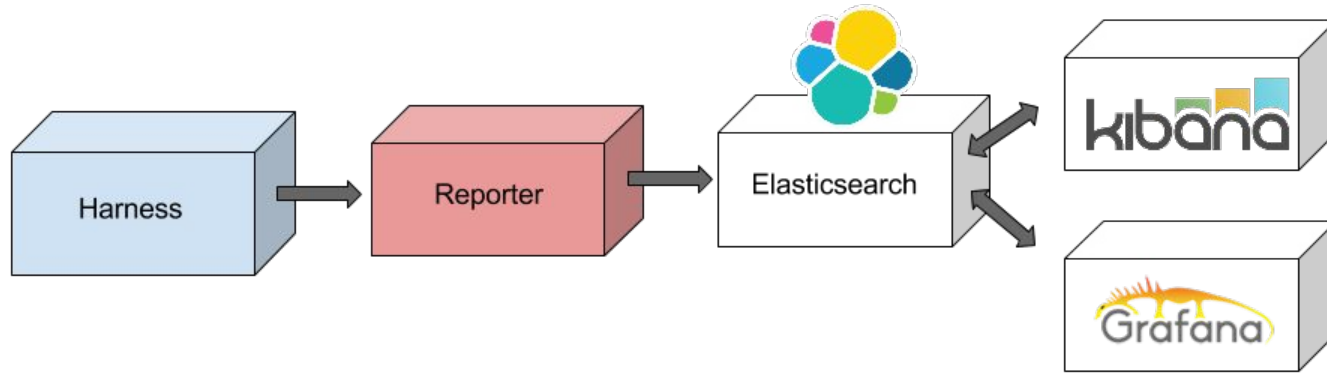
```
  amazon.resultPage.openProduct nameOfBook
```

```
  amazon.detailPage.exist nameOfBook
```

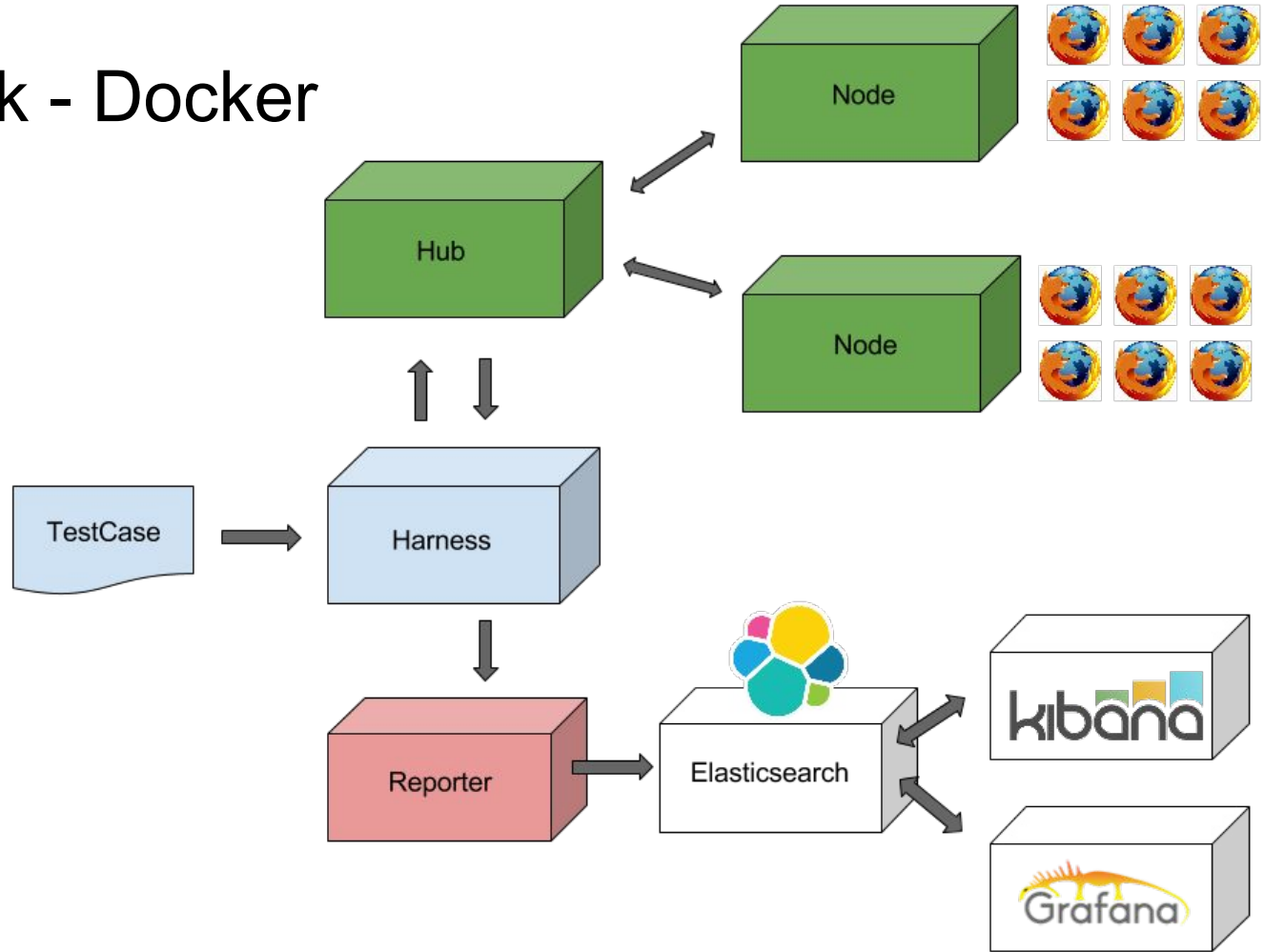
```
  amazon.detailPage.addToBasket.paperbackBookmark()
```

```
  amazon.basket.exist.wasAdded nameOfBook
```

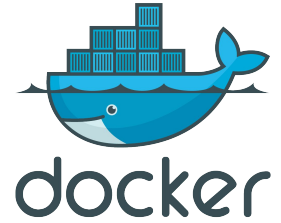
Test stack - Elasticsearch - Kibana - Grafana



Test stack - Docker



Test stack - Docker



Solution: Intermodal Shipping Container



Test stack - Docker

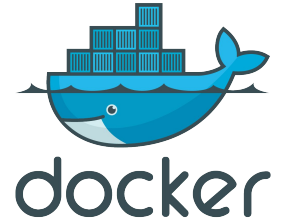


Image Selenium Hub 2.53.0

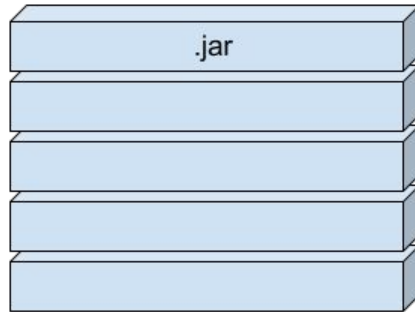
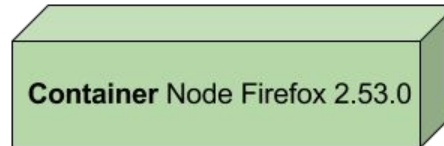
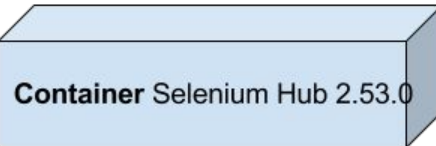
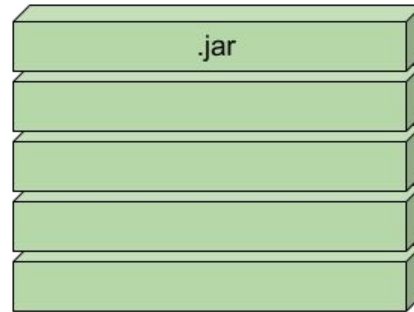
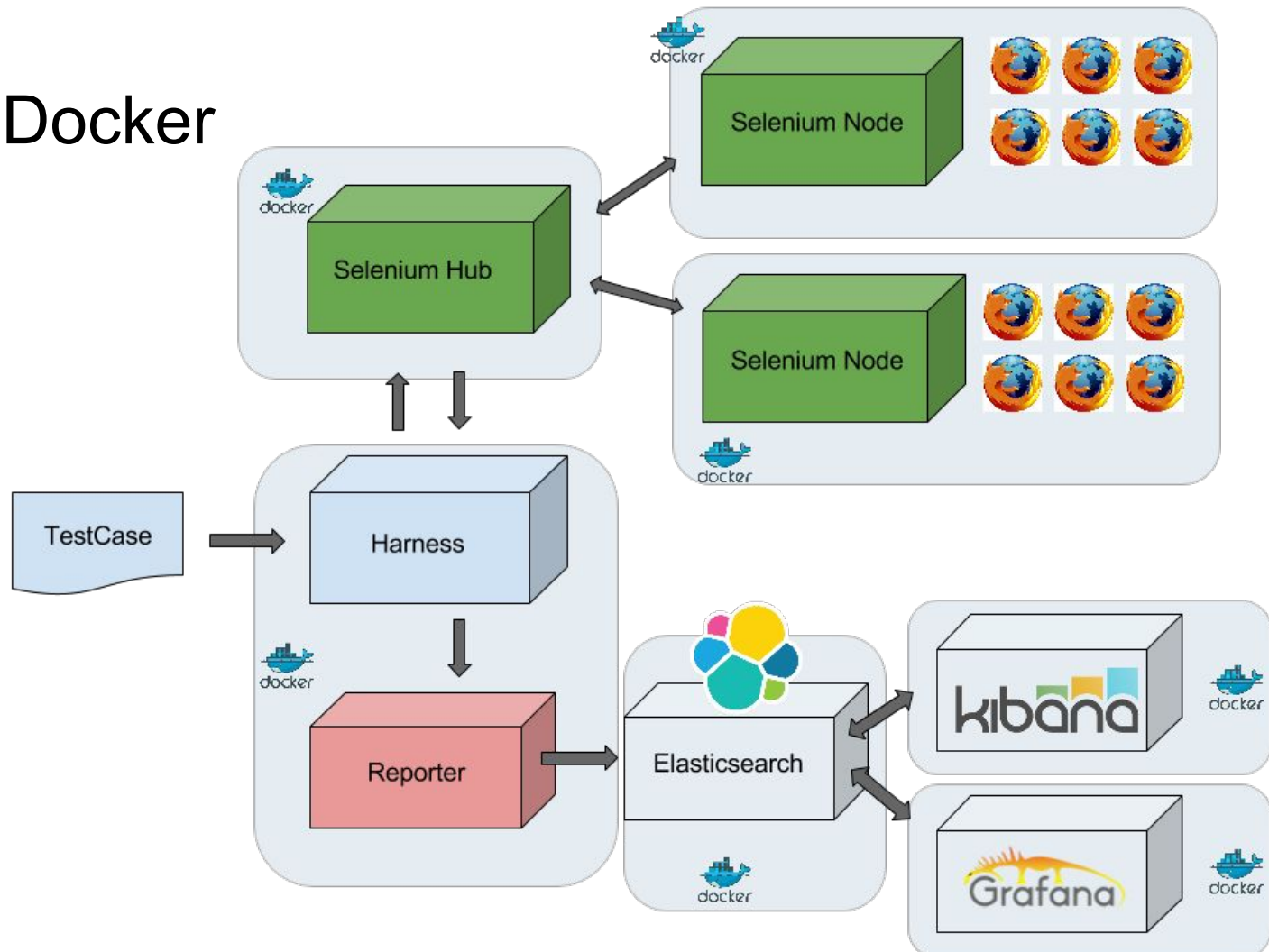


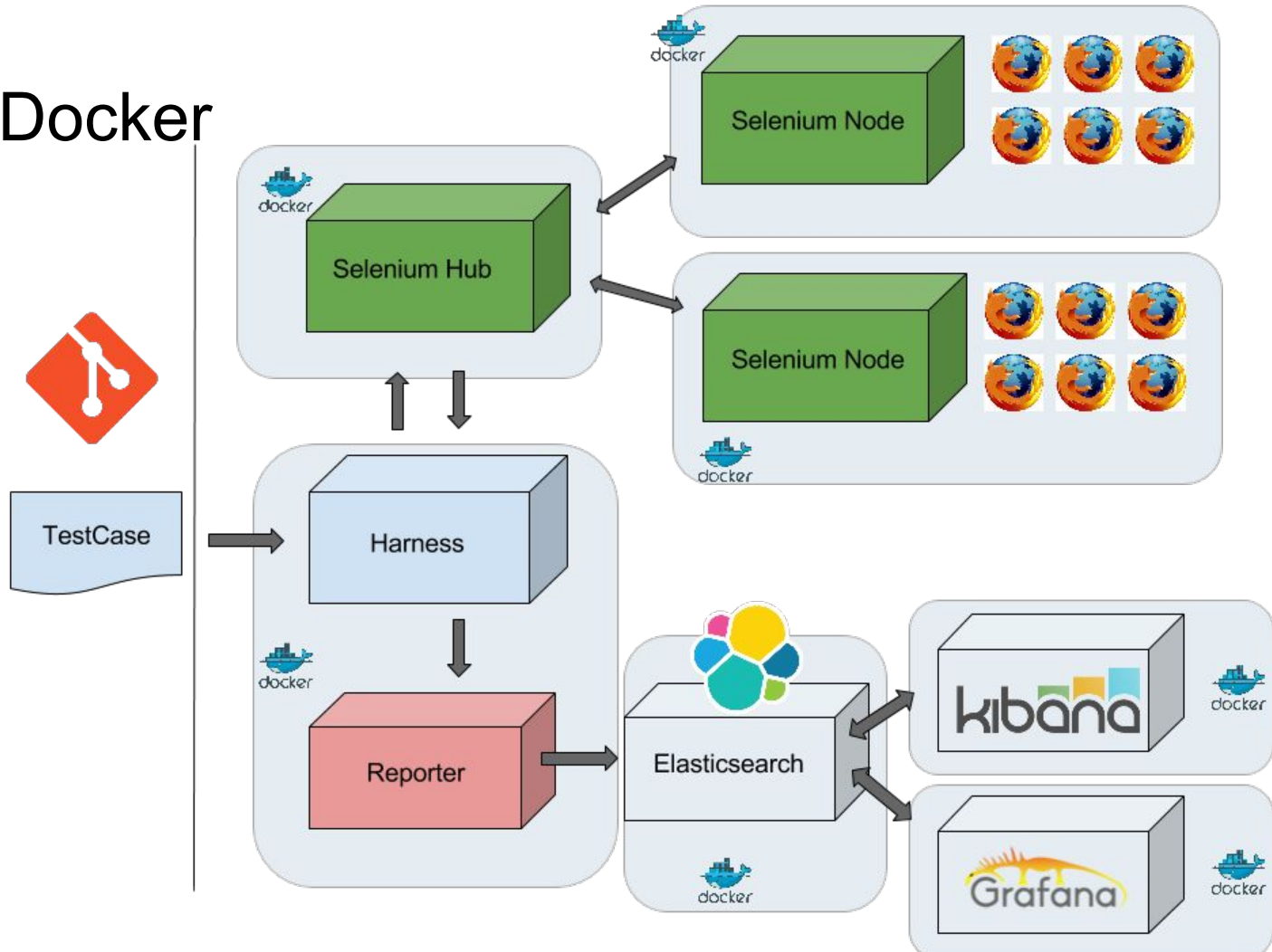
Image Node Firefox 2.53.0



Test stack - Docker



Test stack - Docker



DEMO

Performance test

- Smartmeter
- Reporter (<http://rdpanek.cz/report-20160301-002656/>)
- Elasticsearch (úložiště)
- Kibana (prohlížeč logů)
- Grafana (prohlížeč logů)
- Docker (přenositelnost nástrojů a nastaveného prostředí)
- Jenkins, ..., ...

Test stack



DEMO

Doporučení

- 2016 DevOps
- Less Code More Tests
- Infrastructure as Code
- Testeři (ne vývojáři) / SDET

Zdroje pro učení

- @RDPanek
- <http://bit.ly/RDPanekTestingBooks>
- DZone <https://dzone.com>
- MindMaps <http://www.ministryoftesting.com/resources/mindmaps/>
- MindMaps <http://apps.testinsane.com/mindmaps/>
- <https://dojo.ministryoftesting.com/>
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