State of Devops 2017-2018
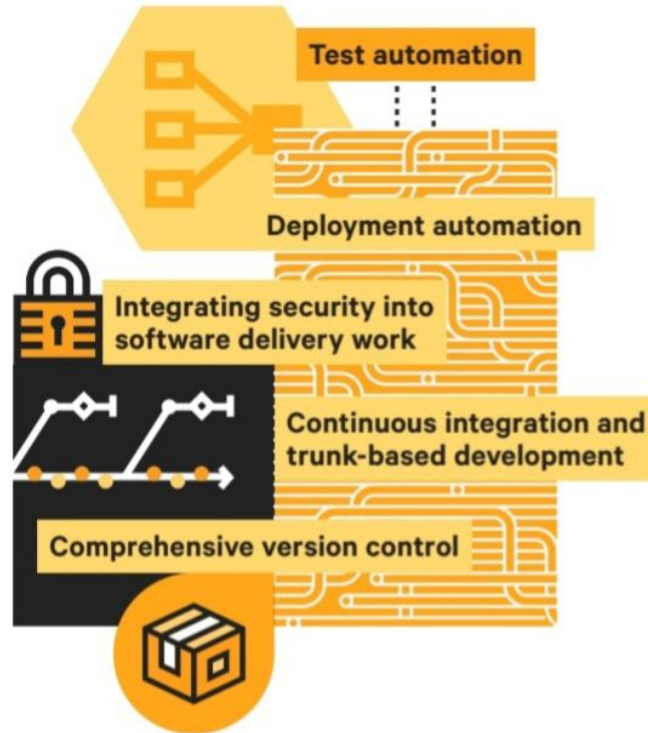
Interesting aspects
by Igor Kuleshov

Continuous delivery as a result of work

- Continuous delivery is independent result
- Comprehensive use of version control, continuous integration and use of test and deployment automation positively affect continuous delivery
- Test automation is biggest contributor

Positive factors

Is it interesting?

- Continuous delivery affects time to market and quality
- To improve effectivity and profitability we improve continuous delivery
- According to previous slide, methods form it help us not just in short term, but in long-term perspective too

Trunk-based development

- Plays big role in continuous delivery (see prev. slides)
- Based on:
  - daily merging into trunk
  - having branches with short life
  - having < 3 active branches

Results of using trunk-based development

- Statistically significant results:
  - High-performers have shortest integration time
  - Their branches life lasting hours
  - Low-performers have longest integration time
  - Their branches life lasting days
- To improve effectivity we should use trunk-based development

Normalization of technology stack

- Evolution starts with simplification
- Standardization and expansion before automation
- Parts of normalization:
  - Using version control
  - Using standard set of operating systems and technology
  - Testing infrastructure changes before deploying
  - Making source code available to other teams

Results of normalization

- Organizations who starts with automation are not successful
- Normalization, standardization and expansion are keys to success
- Automation is important, but not immediately