What can Open Source

do for you

Lukáš Zapletal

Today's Topics

- Who?
- What?
- Why?
- How?



About me

- Cloud Business Unit, Red Hat Czech, Brno
- working with Open Source communities on projects Katello, Pulp, Candlepin, Aeolus
- Fedora Project Member
- Linux Ambassador
- what I like: vim, bash, mutt, mc, grep



philosophy or methodology

promotes free redistribution and access to an end product's implementation details

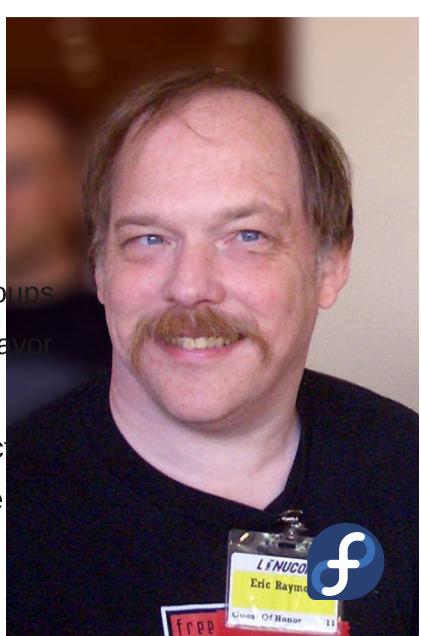
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in 2008 Gartner made a survey about use of Open Source in 274 software companies

how many of them use Open Source now?

100 % *

* 85 per cent of companies surveyed currently using OSS in their enterprises and the remaining 15 per cent expecting to in the next 12 months

every single software company use it

•



Dice/LSF asked 2000 ICT-HR managers around the world about Linux positions

finding those talents is difficult; companies are investing to attract them; Linux developers and administrators are the most in-demand

for 81% respondents hiring a Linux talent is a priority in 2012

average salaries for Linux professionals are \$5,105 higher than IT worldwide average (7 943 CZK per month)

- every single software company use it
- you get paid well

•



in 2011, Coverity reports OSS projects have significantly better defect density than the software industry average

- every single software company use it
- you get paid well
- you work with high-quality code and products

•



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- apple.com _use_ Open Source
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 - * raise and fall with



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bonus: microsoft.com _use_ Open Source too (but Steve Ballmer wasn't told)



Linux/UNIX is the winner on whole server market, cloud and mobile devices

- Linux/UNIX server share is 55.6 % (IDC, 2011, revenue methodology)
- Linux/UNIX webserver share is 63.9 % (W3Techs, 2011)
- Linux TOP500 supercomputers share is 91.4 %
- Android (=Linux) mobile share is 52.5 % (Gartner, 2011)
- Android tablets take 40 % and rising



adopt Open Source or retire

-- Lukáš Zapletal, 2012

- every single software company use it
- you get paid well
- you work with high-quality code and products
- dominating technology on servers and mobile

•



unofficial Amazon EC2 instance report from december 2010: 7,051 instances running Linux, 1,117 instances running Windows

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- you get paid well
- you work with high-quality code and products
- dominating technology on servers and mobile
- future for the cloud



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- you get paid well
- you work with high-quality code and products
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- future for the cloud
- bonus points during your interviews



- every single software company use it
- you get paid well
- you work with high-quality code and products
- dominating technology on servers and mobile
- future for the cloud
- bonus points during your interviews
- you can't go wrong & it's fun!



• find your project



- find your project
- use it for a while



- find your project
- use it for a while
- stay connected with upstream



- find your project
- use it for a while
- stay connected with upstream
- ask before starting some work



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- get familiar with current bugs and requests



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- write doco, fix bugs or code features



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- stay connected with upstream
- ask before starting some work
- get familiar with current bugs and requests
- write doco, fix bugs or code features
- be prepared for code review



larger community projects have many roles you can apply for

- content writer
- designer
- people person
- developer
- translator
- web developer
- administrator



it's vital to speak English via appropriate communication channels

- mailing lists (most popular)
- irc channels (old-but-awesome technology)
- bug trackers (valuable information)
- wiki pages (usually best technical resources)
- user forums (not so popular in communities)
- social webs
- other means



knowing the programming language is simply not enough

- working with revision control systems
- understanding processes
- analyzing and reproducing bugs
- release engineering
- communicating with other roles
- getting things done (planning)
- project management



knowing your revision control system can save you **massive amount** of time

- git
- bzr
- svn
- hg
- CVS
- rcs





make use of **cloud** when creating your own Open Source project

- github.com | git
- launchpad.com | bzr
- code.google.com | git, hg, svn
- sourceforge.net | git, svn, bzr, hg, cvs
- gitorious.org | git
- bitbucket.org | hg
- fedorahosted.org | git, hg, bzr



- generate your ssh key (one command)
- set your name & e-mail in git (two commands)
- register on github.com (few clicks)
- upload your public ssh key (few clicks)
- create a project on github.com (two clicks)
- git clone git@github.com:lzap/project.git
- start working, git commit && git push



myth: open-source communities do not have strict rules aka "anybody can do anything"

- example: bug report life-cycle
 - new
 - need more info / triaged / planned
 - assigned / rejected / postponed
 - build/release pending
 - test pending / verified / re-assigned
 - custom states, flags, options



processes can be complicated when working on large community project

- example: getting your work upstream
 - patch into a bug tracker
 - patch into a mailing list
 - merge request
 - review tool
 - pastebin
 - irc
- do test and prevent regressions



release engineering can be also challenging when working on a project with some history

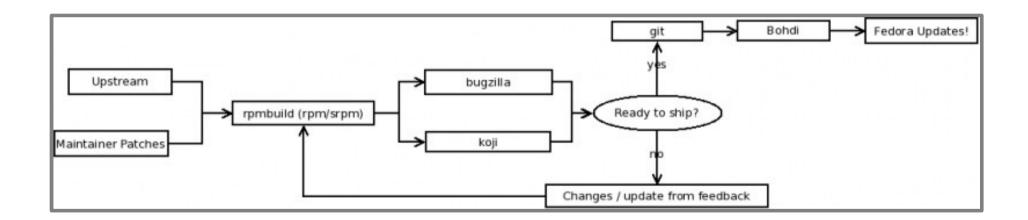
- read first, push then
- learn branching strategies
- follow rcs guidelines
- set proper flags in bug trackers
- help release engineers to do their jobs
- or became a release engineer



join Fedora Project and apply for Fedora Package Maintainer

- go to join.fedoraproject.org
 - > OS Developer > Packaging
- create bugzilla.redhat.com account
- join fedora mailing lists (packaging, devel)
- ensure your package is suitable
- make your package
- upload into bugzilla and set FE-NEEDSPONSOR







Questions?

References

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