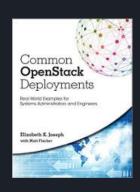# Open Source

Tools, Techniques, Best Practices

Elizabeth K. Joseph
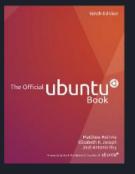DevPulseCon 2018

MESOSPHERE

Elizabeth K. Joseph

Developer Advocate at Mesosphere

4 years working on CI/CD for OpenStack

10+ years in Linux systems administration and engineering roles

Author of The Official Ubuntu Book and Common OpenStack Deployments

@pleia2
lyz@princessleia.com

Tools

Open Source projects collaborate online and often have participants from around the world.

Mailing Lists: Mailman

Mailing Lists: Google Groups

Chat: IRC

Chat: Slack

Revision Control

Most open source projects today use a type of revision control to manage their code. It provides code history and eases collaboration.

- Git
- Bzr (Bazaar)
- SVN (Subversion)
- Mercurial

These are typically hosted on a code platform where the users collaborate.

Revision Control Platforms: Git on GitHub

Revision Control Platforms: Git on cgit

Revision Control Platforms: Bzr on Launchpad

← Back to branch summary

~xubuntu-team/xubuntu-marketing/current

Changes **Files**

~xubuntu-team/xubuntu-marketing/current : / (revision 9)

ⓘ view revision   ⓘ view branch changes

Committer: Pasi Lallinaho
Date: 2018-02-21 12:02:59 UTC
Revision ID: pasi@shimmerproject.org-20180221120259-2zff934yfl5hbdqy
Add wallpapers from 17.10 and 18.04
Optimize wallpaper PNG files

Filename	Latest Rev	Last Changed	Size		
📁 flyer	1	2015-08-22 00:05:03 UTC		📋	
📁 linuxidentity_2013	6	2017-05-07 17:35:23 UTC		📋	
📁 logo	4	2017-05-06 09:09:06 UTC		📋	
📁 slides_template	3	2017-05-06 09:06:38 UTC		📋	
📁 wallpapers	7	2017-05-07 17:44:59 UTC		📋	
📄 .bzrignore	2	2015-09-29 10:41:27 UTC	12 bytes	📋	⬇

Loggerhead is a web-based interface for Bazaar branches
Version: 1.18.2, Revision: 18617

Bug Tracking

- Bugzilla
- GitHub Issues
- GitLab Issues
- Launchpad Bugs
- Jira
- ...dozens more

Bug Tracking: Issues on GitLab

Techniques

Getting Started

Look for a section on the site related to "Getting Involved" "Contribute" or "Community"

Etiquette

Follow the rules in place for contributions.

Be polite and act professionally.

Provide timely and clear responses to contributions.

Follow the Code of Conduct or etiquette guides the project has published.

Patience

People have varying degrees of participation time available for the project, exercise patience when working with them. Friendly follow-ups are OK.

When you're new to a community, it's common to be corrected when you make a community faux paus, accept this correction with grace.

Licenses

Licenses are incredibly important in the open source world, basic understanding is key and not running afoul of the rules in your is important.

Most acceptable to companies: Apache, MIT, BSD

Sadly, often less acceptable: GPL, AGPL

Ask your boss or legal team.

The language of open source

"What's a pull request?"

Just like you do in your industry and in your technical specialization, open source communities have their own terms and words.

Do a quick Google search. Ask questions.

Best Practices

Identity: What email address to use

Are you participating as an employee or as a hobbyist?

Do you want your hobby open source work mixed with what you do for work?

Are you interested in an open source presence that outlives your current company?

Are you permitted to use a non-company email address for contributions you do for work?

```
},
{
    "launchpad_id": "lyz",
    "companies": [
        {
            "company_name": "HP",
            "end_date": "2015-Oct-31"
        },
        {
            "company_name": "HPE",
            "end_date": "2016-Oct-28"
        },
        {
            "company_name": "*independent",
            "end_date": null
        }
    ],
    "user_name": "Elizabeth K. Joseph",
    "emails": ["lyz@princessleia.com", "lyz@ubuntu.com"]
},
```

Writing a good bug report

Give enough detail so that the person reading the bug is able to reproduce your problem, including:

● Version of the software you're using
● Step by step explanation of what you did that resulted in the problem
● The outcome you expected, versus what happened

Get to know the community

Join chat.

Join the the mailing lists.

Participate in project meetings.

Help in the support outlets the project has.

Meet other project members at Meetups and conferences.

Questions?

Elizabeth K. Joseph

lyz@princessleia.com

Twitter: @pleia2