A Long Time Ago
In a Galaxy Not So Far Away ...
A Brief History of Networking
Fast Forward ...
The Wild West: Open Source Networking
The Four Stages Of Open Source Networking Development

Excitement

Panic

Enlightenment

Success
Contributing: Two Ways
“I want to contribute, please help me!”

“Your project is too hard to contribute to.”
“I want to contribute, please help me!”

Open Source Projects need more than code!

- Documentation
- QA
- Infrastructure
- Blogs
- IRC
“I found a bug!”

“Your project sucks, I found a bug!”
“I found a bug!”

Report the bug in the project's bug tracker

Include all relevant information

Include steps on how to reproduce

Wait

Different projects work through their bug backlog different ways

If no word heard after a week, poke developers on IRC or the mailing list
“I found a bug and I have a fix for the bug!”

“You’re not merging my bug fix fast enough!”
“I found a bug and I have a fix for the bug!”

Report the bug in the project's bug tracker
- Include all relevant information
- Include steps on how to reproduce

Post the patch
- Ensure the patch passes whatever CI the project uses
- Respond in a timely manner to comments the patch receives
“I have a fancy new feature, can I contribute it?”

“You must accept my new feature!”
“I have a fancy new feature, can I contribute it?”

Add the feature to the project’s roadmap

- Projects track these in different ways

- Is the project interested?
  - Does it align with the project’s goals?
  - Is it within scope of the project?
“I have a great project idea! Let's work together to figure out how to address common goals.”

“I have a great project idea! Can I replace you entirely but still be considered part of the same community?”
“I have a great project idea! Let's work together to figure out how to address common goals.”

Evaluate how your project idea can fit with the existing project

- Does it overlap?
- Does it provide extra value?
- Can something be abstracted?

Is the community interested?

- Does it fit the communities goals?

Do you have a plan for testing, documentation and support?
Comparing Open Source Contributions: Open vSwitch, Neutron, and OpenDaylight
## Infra and Docs

<table>
<thead>
<tr>
<th>Project</th>
<th>Infra</th>
<th>Docs</th>
<th>New Contributors Docs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open vSwitch</td>
<td>github</td>
<td>Combination of webpages and in-tree docs</td>
<td>Yes</td>
</tr>
<tr>
<td>OpenStack gerrit</td>
<td>OpenStack gerrit</td>
<td>Mostly in-tree docs and devref, some wiki articles remain</td>
<td>Yes</td>
</tr>
<tr>
<td>OpenDaylight gerrit</td>
<td>OpenDaylight gerrit</td>
<td>Wiki articles</td>
<td>Yes</td>
</tr>
</tbody>
</table>
# I Want to File a Bug

<table>
<thead>
<tr>
<th>Project</th>
<th>Where To Go</th>
<th>Where Bug Tracked</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open vSwitch</td>
<td>Mailing list</td>
<td>Mailing list and github issues</td>
<td>Mailing list is the primary location</td>
</tr>
<tr>
<td>OpenStack</td>
<td>Launchpad</td>
<td>Launchpad</td>
<td>If filing for a neutron sub-project, may need to use different Launchpad project</td>
</tr>
<tr>
<td>OpenDaylight</td>
<td>Wiki</td>
<td>Bugzilla</td>
<td>Need to select correct project to file bug in</td>
</tr>
</tbody>
</table>
## I Want to Add a Feature

<table>
<thead>
<tr>
<th>Project</th>
<th>Where To Go</th>
<th>Where Feature Is Tracked</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>Open vSwitch</td>
<td>Mailing list</td>
<td>Mailing list</td>
<td>Make use of the ML for feature addition requests</td>
</tr>
<tr>
<td>OpenStack</td>
<td>Neutron docs</td>
<td>Launchpad as an RFE bug and neutron-specs git repository</td>
<td>RFE process is documented well, but may take time to complete</td>
</tr>
<tr>
<td>OpenDaylight</td>
<td>Part of existing project use ML. If new, propose project.</td>
<td>ML, wiki, and IRC meetings.</td>
<td>New project or part of existing one? The choice is yours.</td>
</tr>
</tbody>
</table>
## Project Evolution

<table>
<thead>
<tr>
<th>Project</th>
<th>Started</th>
<th>Evolved To</th>
<th>Foundation</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>OvS</strong></td>
<td>Small core group of contributors</td>
<td>Taking on a new project (OVN), growing slowly but surely</td>
<td>No foundation*</td>
</tr>
<tr>
<td><strong>Open vSwitch</strong></td>
<td>![image]</td>
<td>Focused group of repositories</td>
<td>OpenStack Foundation</td>
</tr>
<tr>
<td><strong>OpenStack</strong></td>
<td>Rough consensus of many disparate groups into one codebase</td>
<td>More and more projects and repositories</td>
<td>Linux Foundation</td>
</tr>
<tr>
<td><strong>Open DAYLIGHT</strong></td>
<td>![image]</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Practical Advice on Succeeding Upstream
PLAN AHEAD
Respect

GIVE IT

TO GET IT
LYRICS TO LIVE BY:
№ 329

“If you give a little love, you can get a little love of your own.”

NOAH AND THE WHALE, GIVE A LITTLE LOVE

lyrics2liveby.com
little ♥♥ things
Empower your Open Source Developers!
Thank you!