



FROM ZERO TO CODE: A HANDS-ON GUIDE TO MAKING YOUR FIRST OPENSTACK CODE CONTRIBUTION

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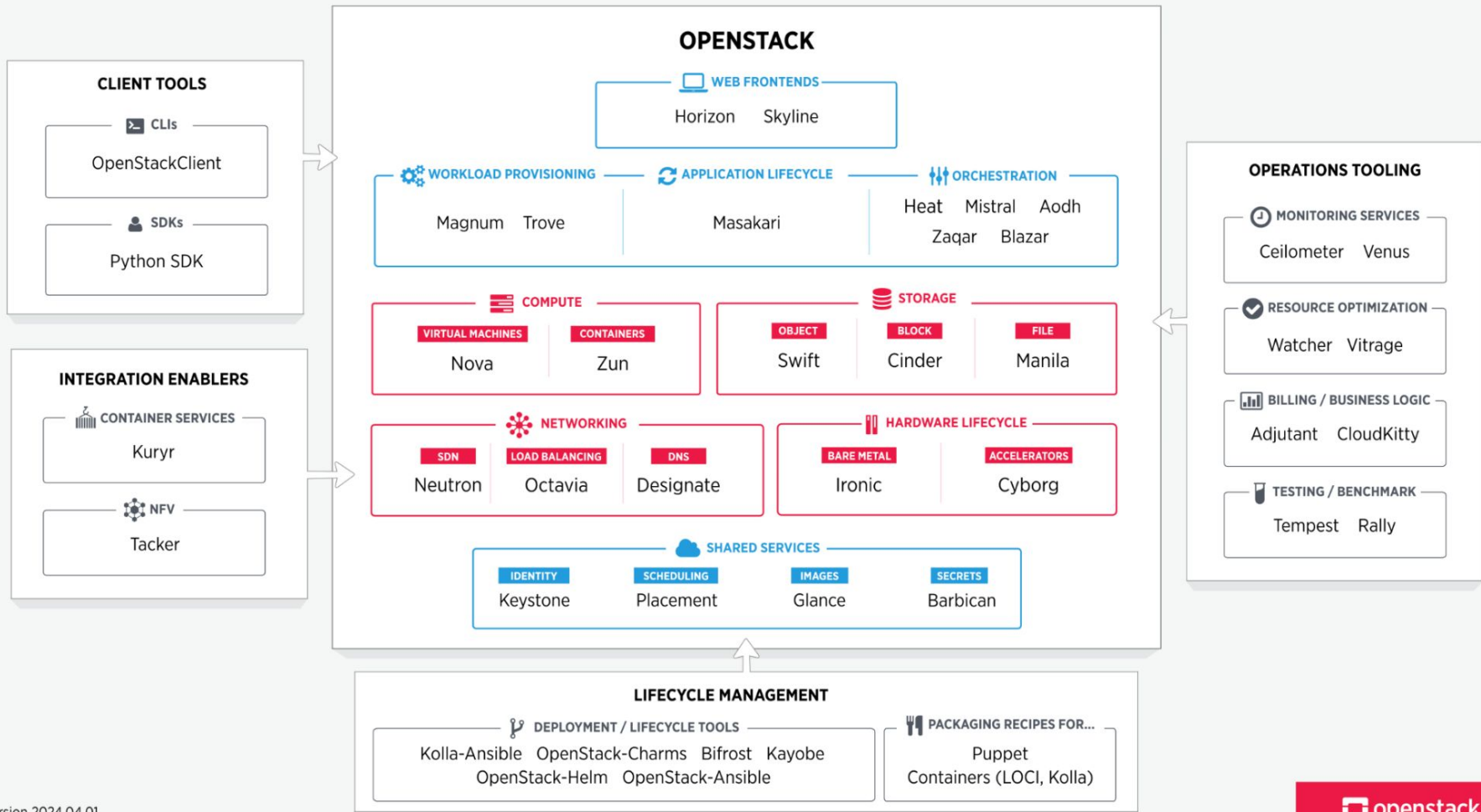
ashrodri

Contributing to OpenStack



- Why contribute to OpenStack?
- Who can contribute to OpenStack?
- How do you contribute?





That *weird* thing about OpenStack

The community is super welcoming to new contributors

HOWEVER,

- You have to patiently acquire the *context*
- You have to *communicate*
- You have to *earn trust*

Where is the code?

All OpenStack projects are hosted under the “openstack/” namespace on <https://opendev.org>

Where are the docs?

<https://docs.openstack.org> is a good starting point
There's a consistent structure to docs pertaining to each service: <https://docs.openstack.org/{service}/latest>

Workshop's instructions etherpad

<https://etherpad.opendev.org/p/zero-to-code>



What do you need for your first contribution?

- A device with internet access
- [Join OpenInfra as an individual contributor](#)
- Register on [gerrit](#)
- Sign the Individual Contributor License Agreement (ICLA)
- Create an SSH Keypair on your machine
 - `ssh-keygen -t ed25519 -c "your-email@example.com"`
- Have your public SSH key added to gerrit
- Install "git" and "git-review"



Low hanging fruits

- Each project team maintaining the corresponding repositories
- Today, we will use a [pool of issues](#)
- OpenStack services use the Launchpad issue tracker
 - Trackers for the projects will look like:
 - <https://bugs.launchpad.net/manila>
 - 'manila' is the name of the project. You can replace it with nova, cinder, keystone...
- Filtering for beginner-friendly issues (a.k.a low hanging fruits)
- Assign an issue for yourself; if you're having trouble, let us know

Submitting your contribution

- Fix the code and commit it locally
- Test your code
 - Devstack
- Running tests on devstack
 - pep8
 - unit tests
 - documentation
 - other fancy tests
- Upload your code to gerrit
- After the change is submitted:
 - Add reviewers
 - Wait for and look at Zuul results
 - Iterate with reviewers until the change has merged
 - Fun and profit

Reviewing a contribution

- review.opendev.org
- https://review.opendev.org/q/project:%5E.*specs+status:open
 - AKA “project:^.*specs status:open” in search bar
- https://review.opendev.org/q/project:%5Eopenstack.*+status:open+prefixsubject:doc
 - AKA “project:^openstack.* status:open prefixsubject:doc” in search bar
- Share amongst the crowd any submitted changes and review together!

These are primarily specification and documentation patches that could use a pair of eyes to check for spelling, grammar, and readability.

Feel free to review any pending patches in services that catch your interest. Just navigate using “project:openstack/<project-name>”

Connect with the Community

- Easy IRC steps using element.io (matrix bridge):
<https://docs.openstack.org/manila/latest/contributor/irc-quick-and-dirty.html>
- Join #openstack or #openstack-dev for general questions
- We are on #openstack-manila
- For a full list of available channels and meetings go to:
<https://meetings.opendev.org/>

Complete IRC guide: <https://docs.openstack.org/contributors/common/irc.html>

Thank you!

Connect with us:

Chat: #openstack-dev on OFTC

E-Mail: openstack-discuss@lists.openstack.org

Ping: gouthamr, carloss, ashrodri
(#OFTC, and @redhat.com)



PTG PROJECT TEAMS
GATHERING

A Fully Virtual Event

<https://ptg.openinfra.org/>

APRIL 7-11, 2025