



Open Source & OVH

Our promise, your freedom

Didier Caroff

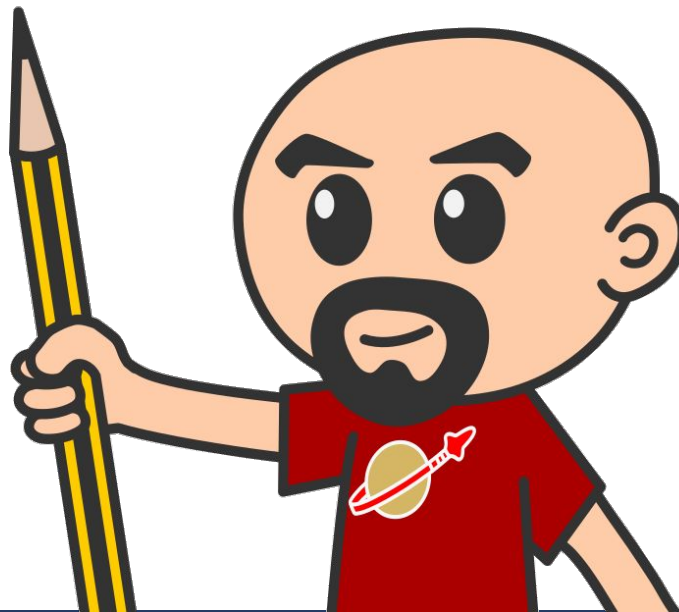
Horacio Gonzalez

Horacio Gonzalez



@LostInBrittany

Spaniard lost in Brittany, developer, dreamer and all-around geek



Users vs contributors

An open source dilemma

Open source has won



Well, has it really won?

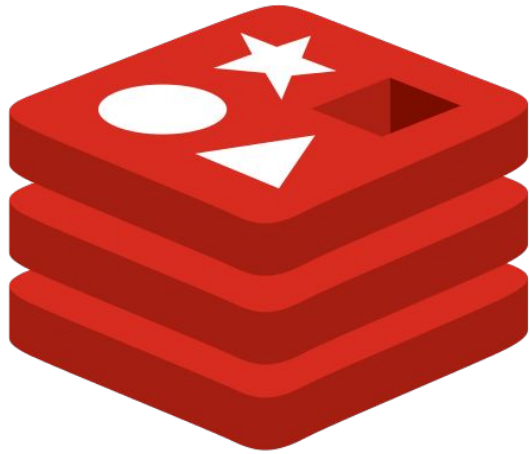


The open source paradox



Companies make lots of money from open source
but contributors get ony bread crumbs...

The Redis example



redis

Have you heard about it? What do you think?

If you make money on it, contribute!

Many ways to contribute:

- Contribute your code
- Sponsor
- Organize meetups
- Write blog posts
- Be an active member of the community!



OVH and the open source



We love open source!

We build great things with it!

And we contribute

Many kinds of contribution

- Projects intended to be OSS
- Internal projects released as OSS
- Contribution to established projects
- Contribution to projects' ecosystem

Projects intended to be OSS

CDS: Continuous Delivery System



Projects intended to be OSS

CDS: Continuous Delivery System

Enterprise-Grade Continuous Delivery &
DevOps Automation Open Source Platform

<https://ovh.github.io/cds/>

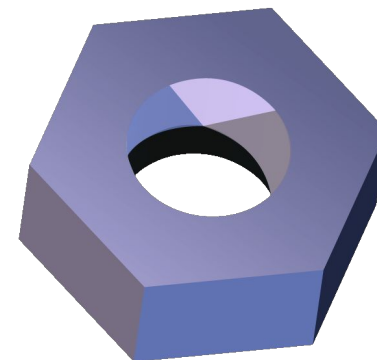
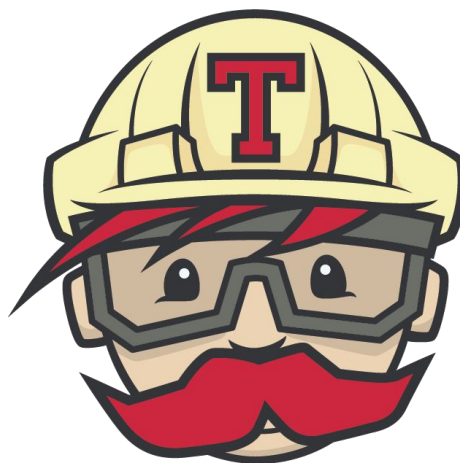


Why another CI/CD tool?



It begins as an internal need:
The quest for a CI/CD tool for OVH

Why another CI/CD tool?



And what about Jenkins? Travis? Buildbot?

The need

A common tool for all OVH products to:

- Compile
- Test
- Package
- Deploy



CDS: Continuous Delivery System



Built with user empowerment in mind

Self-service culture everywhere



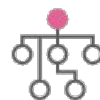
Designed to grow with your needs

Horizontal scalability in its DNA



Best practices friendly

Assists you in your quest toward Continuous Delivery/Deployment



Microservices' best friend

Build similar projects with the same workflow



Highly automatable

Full featured RESTful API



Cloud native

Spawn on-demand VMs and containers in the cloud



Built-in security

Fine-grained ACLs at every step



Easily customizable

Make it yours through plug-ins and actions

Open source since 2016



Search or jump to... Pull requests Issues Marketplace Explore

ovh / cds Watch 32 Star 285 Fork 56

Code Issues 144 Pull requests 11 Projects 0 Insights

Enterprise-Grade Continuous Delivery & DevOps Automation Open Source Platform <https://ovh.github.io/cds/>

continuous-delivery continuous-integration continuous-deployment automation devops devops-workflow golang

2,729 commits 84 branches 46 releases 39 contributors

Branch: master New pull request Create new file Upload files Find file Clone or download

Commit	Message	Time
bnjj and sguheux	feat(api,worker): migrate all old plugins to new ones (#3321)	Latest commit 2ae4672 7 hours ago
	chore: CodeOwners files to auto request a review (#3303)	8 days ago
	feat(api,ui): add state filter on worker model (#3319)	4 days ago
	feat(api,worker): migrate all old plugins to new ones (#3321)	7 hours ago
	feat(api): add grpc plugin action handlers (#3308)	5 days ago
	feat(api,worker): migrate all old plugins to new ones (#3321)	7 hours ago
	feat(api,worker): migrate all old plugins to new ones (#3321)	7 hours ago
	feat(api,ui): add custom step name (#3259)	24 days ago
	fix(tools): ansible-inventory (#3074)	2 months ago

Very active project on GitHub

Internal projects released as OSS

OVH Control Panel

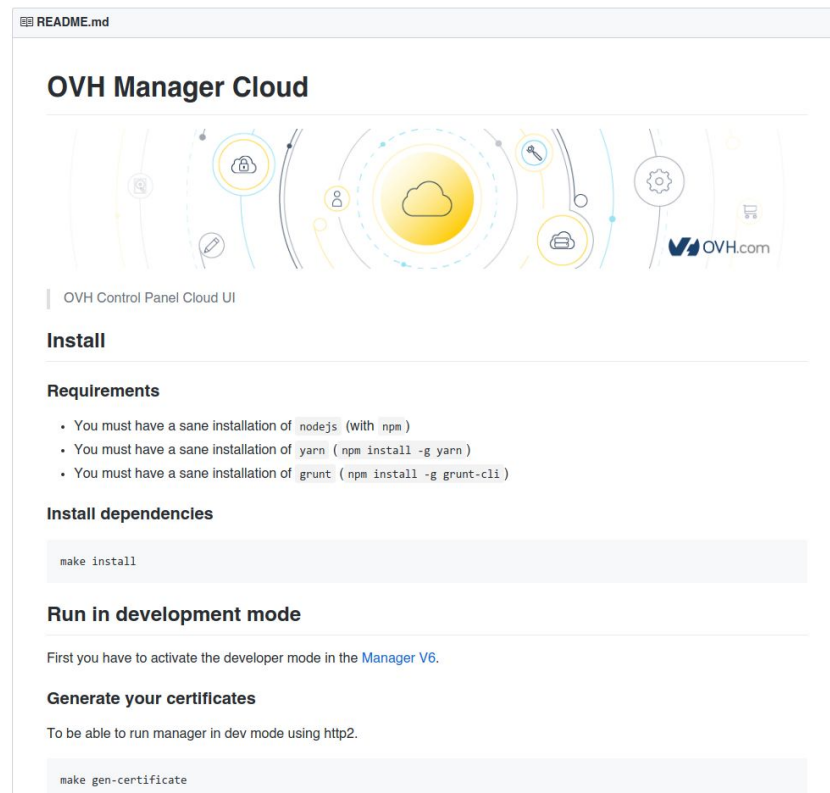
The screenshot displays the OVH.COM Control Panel Configuration page for a VPS named 'vps21062.vps.ovh.ca'. The interface includes a search bar, a navigation menu on the left with categories like IP, Network (2), and Infrastructure (1), and a main content area with several sections:

- System Information:** Release 3 OVH (64 bits), Beauharnois BHS.
- Creation:** 24/03/2014
- Renewal:** 24/04/2014
- IPv4:** 198.100.155.42
- IPv6:** 2607:5300:100:200:0:0:0:2a
- Reverse DNS:** 42.ip-198-100-155.net
- Secondary DNS:** No domains configured
- Status:** A row of service status buttons: PING, SSH, HTTP, HTTPS, DNS, and SMTP. A tooltip indicates 'The SMTP service has been enabled'.
- Disk space:** A gauge showing 1.4GiB used out of 20 GiB.
- Traffic used:** A section with a link to 'Information to follow'.
- Processor:** 2 vCores.
- RAM:** 2 GiB.
- Management Actions:** A grid of buttons including 'Modify the Reverse DNS', 'Reboot my VPS', 'Reset the password', 'Monitoring', 'Renew my VPS', 'Reinstall my VPS', 'Rescue mode', 'KVM', and 'Upgrade my VPS'.

Internal projects released as OSS


OVH Control Panel: the OVH Managers (Cloud, Web, Telecom...)

<https://github.com/ovh-ux/>



README.md

OVH Manager Cloud



OVH Control Panel Cloud UI

Install

Requirements

- You must have a sane installation of `nodejs` (with `npm`)
- You must have a sane installation of `yarn` (`npm install -g yarn`)
- You must have a sane installation of `grunt` (`npm install -g grunt-cli`)

Install dependencies

```
make install
```

Run in development mode

First you have to activate the developer mode in the [Manager V6](#).

Generate your certificates

To be able to run manager in dev mode using http2.

```
make gen-certificate
```

Why?



Why did we open source our Control Panel?

Why?

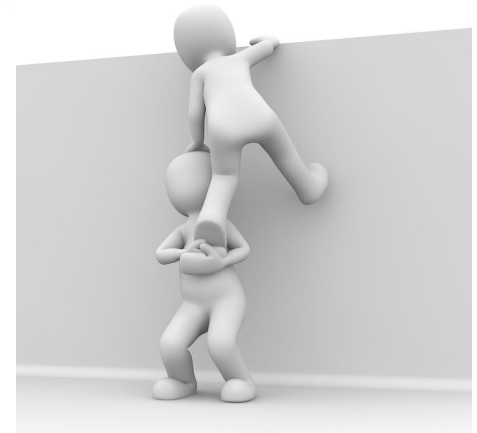
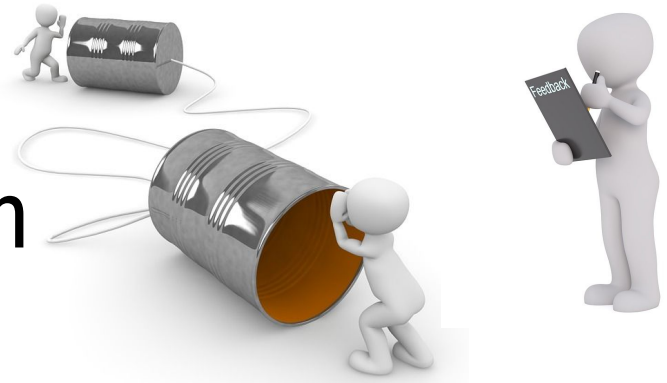
The Control Panel is the
cornerstone of OVH services

All our customers use it



Why?

- Getting user feedback
- Getting user contribution
- Commit to transparency
- Create a community



The long road...

- Announced in OVH Summit 2016
- Released on July 2017
- In between?
 - Guidelines
 - Toolbox
 - Cleaning code
 - Documentation

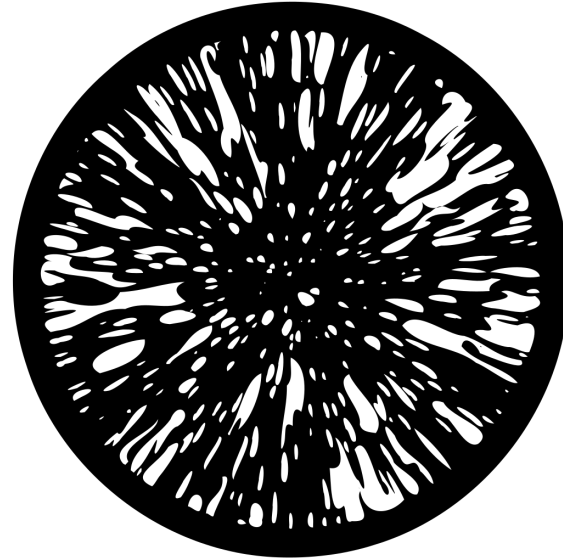


The ecosystem

OVH Metrics projects

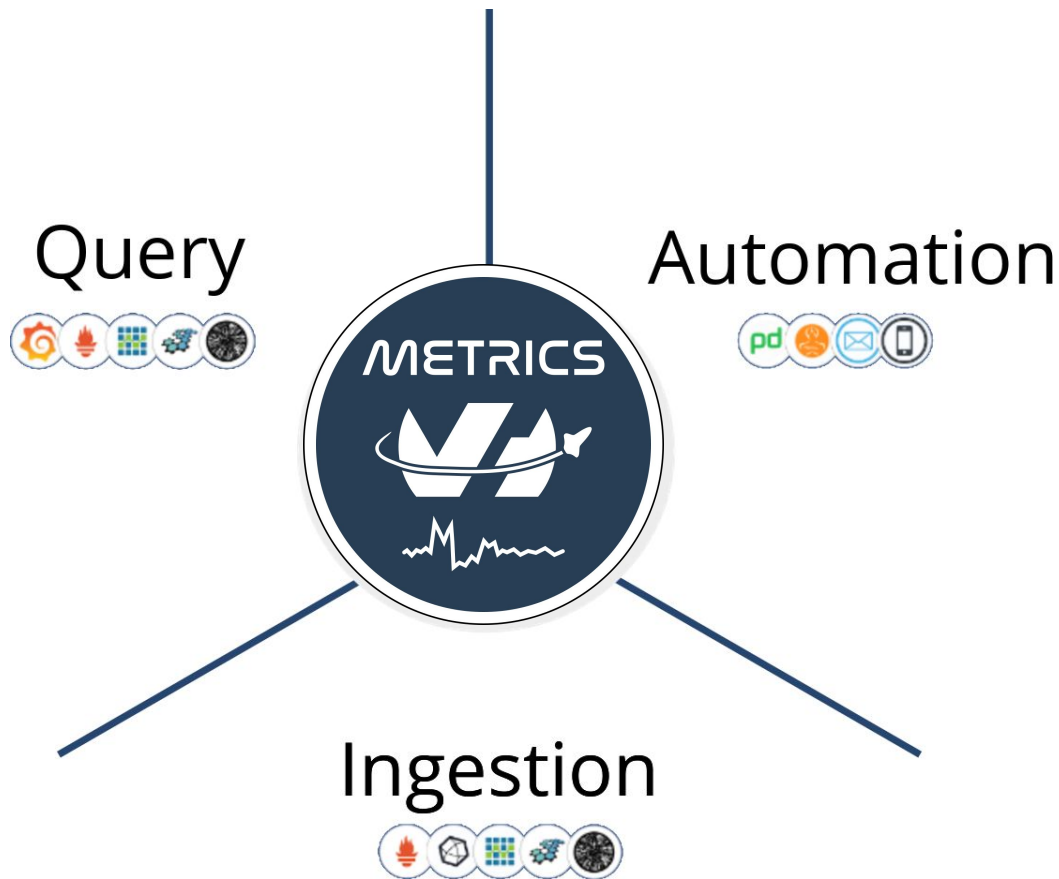


OVH Metrics build over OSS



At the heart of OVH Metrics:
Warp 10, by Cityzen Data

And around it, lots of code!



Releasing some of that code...



- Beamium - metrics scraper for Warp10 & Prometheus
<https://github.com/ovh/beamium>
- Noderig - Export OS stats as Sensision Metrics
<https://github.com/ovh/noderig>
- Metronome - Distributed, fault tolerant scheduler
<https://github.com/ovh/metronome>

Giving a hand with the community



Co-organizing the Warp 10 Meetup

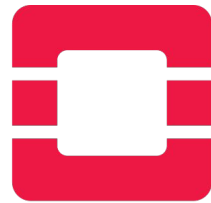
Working together in OSS projects



clever cloud

Contribution to established projects

OpenStack



openstack®

Why?

Based on the reference cloud technology



"OVH chose OpenStack, both an open and mature technology. We then adapted the experience for newcomers and "cloud-ready" users alike."

Maxime Hurtrel, Product Manager - OVH Quebec, Canada

OVH Cloud is built on OpenStack

The journey of contribution...



A case of atypical usage



In 2012 OVH was an early adopter...
and an atypical user: Public Cloud

An increasing commitment

- Participating to OpenStack Summit since 2014
- Corporate sponsor since 2014
- Infrastructure Donor since 2016
- Sponsoring OpenStack Academy since 2017
- Organizing events and meetups



Technical contributions



Increasingly larger OpenStack code contribution

Committed to interoperability



ABOUT OVH

OVH is a major player in cloud market. Thanks to 15 years of hosting experience, OVH builds his own data centers and manages his own network around the world. The OVH Group offers tools and solutions that are simple yet powerful, revolutionizing the way its 900,000 worldwide customers work.

OVH COMMITMENT

Through this Public Cloud product, the OVH group dedicated a whole team of engineers and tech enthusiasts to bring its bare-metal and performance experience to the cloud and OpenStack ecosystem.

OVH Public Cloud

DETAILS & SIGNUP

Large public cloud built on 6 regions, small and cheap instances or very large instances with dedicated resources are available. Our instances provides high performances and benefit from a trans-region private network.



This product is OpenStack Powered. It contains OpenStack software and has been validated through testing to provide API compatibility for OpenStack core services. [Learn more about the testing criteria and core services here.](#)

✓ TESTED OpenStack Powered Platform 2016.01 - [See full results \(+\)](#)

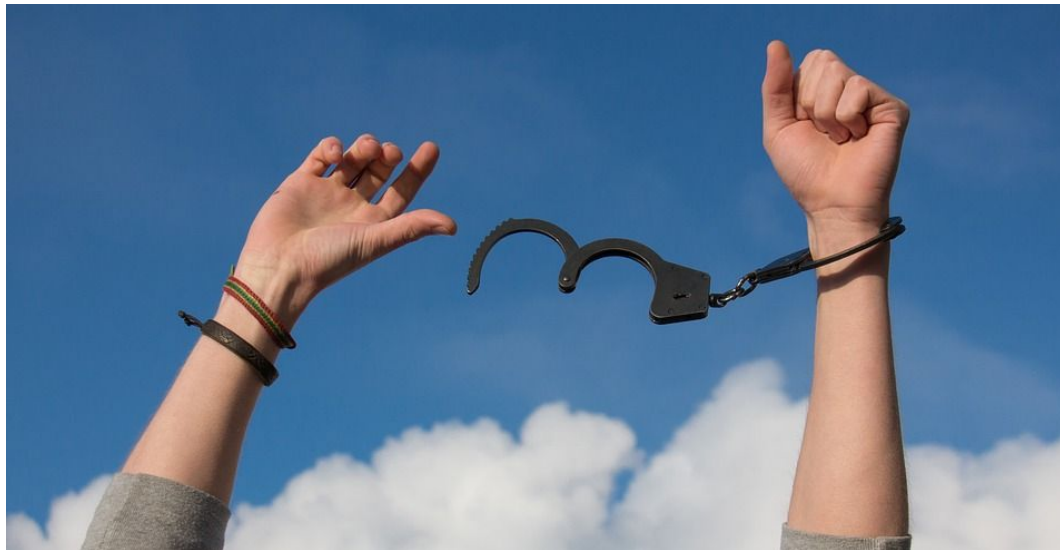
OpenStack Services Enabled

SERVICE	RELEASE	API COVERAGE
Block Storage API & Extensions	Newton (Cinder v2.0)	●
Compute Service API & Extensions	Newton (Nova v2.0)	●
Dashboard	Newton (Horizon)	N/A
Identity service API & Extensions	Kilo (Keystone v3.0)	●
Image service API	Newton (Glance v2.4)	●
Networking API & Extensions	Newton (Neutron v2.0)	●
Object store API & Extensions	Newton (Swift v1.0)	●

OpenStack Powered label

Open source & our customers

Our promise, your freedom



Build on open source isn't all



All cloud providers use Open Source

Most actors force vendor lock-in

- Difficult portability
- No interoperability
- Contracts
- Exit Fees
- VP lobbying



For us open source means freedom

- Freedom to take away your data
- Freedom to install the solution yourself
- Freedom to host the solution
- Freedom to be multi-provider



How open source helps?



- Standard and open APIs
- Standard and open formats
- Standard and open products

