



# Nicolas Lamirault

Software Engineer, Open Source specialist.

## Expériences

- 10/2016-. **DevOps Tools, Orange Application for Business** Software Engineer
- Collecting, centralizing, and visualizing client infrastructures from multiple Cloud Providers (Openstack, AWS, Azure) (Python/Golang/Kubernetes)
  - Tools for deploying Cloud Native Applications (Kubernetes)
  - API Gateway for interne services (Golang, gRPC)
  - Continuous Integration and Deployment using GitlabCI and Kubernetes
  - Setting metrics in Cloud services (Opentracing Python and Golang, Jaeger)
  - Messaging between services using Nats.io (Golang)
  - Prometheus exporters for REST and gRPC services
  - Prometheus exporter for vSphere (Golang)
  - Deployment on Kubernetes
  - Containers monitoring (Golang)
- 07/2014-10/2016 **Infrastructure and Production Tools, Orange Apps for Business, Orange** Software Engineer
- Virtual machine management tools (VMWare / CloudStack)
  - Administration Interface for the internal Cloud
  - Redesigned Packaging, Integration and continuous tests (Golang / Docker)
- 07/2012-07/2014 **Cloud computing, Multimedia Business Services, Orange** DevOps engineer in the Department of Cloud Computing
- Implementation of continuous integration for the IAAS.
  - Redesign of the software architecture of the IAAS (Apache CloudStack, Jersey, Flask, RabbitMQ, Python CLI, NodeJS, StatusDashboard)
  - Packaging for the orchestrator of the CloudStack cloud Multimedia Business Services
  - Setting up a development environment and build based on VirtualBox / Vagrant / Ansible
- 06/2011-07/2012 **NFC Development, Multimedia Business Services, Orange** Developer in the NFC department
- NFC Access Control Service for Mobile NFC Service Center (UI administration, REST web service scheduler managing the lifecycle AFSCM, cardlet, Android application).
  - Development of SP TSM (Trusted Service Manager Service Provider) bank (certification PCI / DSS, Mastercard).
- 09/2001-06/2011 **Developer, Multimedia Business Services, Orange** Project Department team provides packaged.
- Application Development SMS / MMS on behalf of Orange companies media (television, radio, internet), large accounts
  - Interactive Voice Servers Development in J2EE and VoiceXML.

- Development of web applications (web shop, intranet, tools of administration).
- Architecture client / servers (RESTful, SOAP, XML-RPC)
- Implementation of agile practices within the team: pair programming, Test Driven Design.

01/2001-10/2001 **Developer Axialog** Quality Department

- Corporate Quality Team Thales Avionics.
- Implementation of unit tests and integration battery
- Implementation of project management tools on Unix.

## Education

1998-2000 **Degree / Master of Computer** [University of Bordeaux I, Talence] (<http://www.u-bordeaux1.fr>)

1996-1998 **DEUG MASS** [Victor Segalen Bordeaux II University, Bordeaux] (<http://www.univ-bordeauxsegalen.fr/>)

1996 **Bachelor of Science (honors)** High School Elie Faure, Lormont

## Comptétences

Programming languages **Current use (personal, professional)** Python, Go, Common Lisp,  
**Use only in work** Java, PHP,  
**Knowledge** Erlang, Rust, Ruby, OCaml, Objective-C

Operating Systems **Daily** Linux (Archlinux, Debian, Ubuntu), OSX  
**Knowledge** BSD

Methodologies & Practices **Organizational:** Agile (Scrum, Kanban)  
**Development** TDD, eXtreme Programming, Design patterns

Tools **Virtualisation :** VMware Server/ESX, Xen, KVM  
**Containeur :** Docker, Kubernetes, Nomad, CoreOS, Openshift (v3)  
**Orchestrateur :** Cloudstack, Openstack  
**Outils :** Vagrant, Packer, Terraform, Ansible, Puppet, Salt Stack, Prometheus, Grafana  
**Base de données :** MySQL, PostgreSQL, Timeseries (InfluxDB), NewSQL (CockroachDB)  
**CI/CD :** GitlabCI, Drone CI, Jenkins,  
**Autres :** Git, Redis, Swagger, ...

## languages

French Native

English Technique

Spanish Basic

## Open source

Cloud **bento :** Some Vagrant baseboxes made using Packer (Archlinux, Debian, CentOS, FreeBSD, OpenBSD, NetBSD)  
**hyperion-xxx :** Setup your own Kubernetes, Swarm, Nomad, Rancher or Openshift Origin cluster using Terraform and Packer and deploy it on public Cloud provider (AWS, Google Compute Engine, Digital Ocean, ...)

	<p><b>helmsman</b> : <a href="#">Github</a> Text User Interface for Kubernetes</p> <p><b>portefaix</b> : Containerized app system based on Docker and Alpine Linux (Elasticsearch, Kibana, Grafana, InfluxDB, Vault, ...)</p>
Tools	<p><b>divona</b> : Setup environment configuration for Linux using Ansible. Support Linux (Archlinux, Debian, CentOs), BSD (FreeBSD, OpenBSD, NetBSD) and OSX.</p> <p><b>aneto</b> : A backup tool using Amazon Glacier</p> <p><b>enigma</b> : A safe using Amazon S3 and Amazon KMS</p> <p><b>abraracourcix</b> : A simple URL Shortener with multiple backend (BoltDB, LevelDB, Redis, MongoDB, ...)</p> <p><b>skybox</b> : Collecting metrics from a box provider and exporting data</p> <p><b>chione</b> : <a href="#">Github</a> - (Golang) - CLI to retrieve ski resorts informations</p> <p><b>pilotariak</b> : <a href="#">Github</a> - (Golang, gRPC) - Some utilities for Pelota informations</p>
Emacs	<p><b>scame</b> : An Emacs configuration</p> <p><b>gotest.el</b> : Emacs mode to go unit test command line tool</p> <p><b>phpunit.el</b> : Emacs mode to phpunit and test command line tool</p> <p><b>sift.el</b> : A front-end for sift, a fast and powerful alternative to grep.</p>
IOT	<p><b>framboise</b> : Raspberry PI 2 tools</p> <p><b>jarvis</b> : Open source experiments in the domotic</p> <p><b>zeiot</b> : <a href="#">Github</a> Docker images for Raspberry PI 2 and 3: Prometheus, Domoticz, CoreDNS, Prometheus exporters (node, pihole, nats, ...), Grafana, Nats, ...</p>

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PGP Key