



Nicolas Lamirault

<https://nicolas.lamirault.xyz>

Expériences

03/2019-.

Skale-5 Cloud Consultant / SRE

- Harmonize and unify existing CI/CD processes
- Monitoring stack based on Kubernetes (GKE, EKS, AKS, ACK): Prometheus Operator, Prometheus, Thanos, Exporters and Grafana.
- Bespoke configuration of Kustomize manifests used by Skale-5
- Manage GCP and AWS platforms using Terraform, Ansible, Packer, ...
- Project templates with Cookiecutter
- Infrastructure tests using Inspec

10/2016-03/2019 **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).

10/2001-06/2011 **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
 1996-1998 **DEUG MASS** Victor Segalen Bordeaux II University, Bordeaux
 1996 **Bachelor of Science (honors)** High School Elie Faure, Lormont

Certifications

2021 **Google Associate Cloud Engineer** GCP-CA
 2021 **Terraform Associate** HC-TA
 2021 **Azure Fundamentals** AZ-900
 2020 **Certified Kubernetes Administrator** CKA

Compténces

Cloud **Provider** GCP, AWS, Azure, Alicloud, Scaleway, Exoscale
Containers Kubernetes, Nomad, CoreOS, Openshift (v3)

Programming languages **Current use (personal, professional)** Go, Python, 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 **Virtualization** VMware Server/ESX, Xen, KVM
Container Docker, Kubernetes, Nomad, CoreOS, Openshift (v3)
Orchestrators Cloudstack, Openstack
Tools Vagrant, Packer, Terraform, Ansible, Puppet, Salt Stack, Prometheus, Grafana
Databases MySQL, PostgreSQL, Timeseries (InfluxDB), NewSQL (CockroachDB)

CI/CD GitlabCI, Drone CI, Jenkins,

Misc Git, Redis, Swagger, ...

languages

French	Native
English	Technic
Spanish	Basic

Open source

Cloud

portefaix - Building an infrastructure on public cloud providers and deploying Cloud Native applications in a Kubernetes cluster

portefaix-hub - Helm charts for the Portefaix project deployed on [Artifactory Hub](#)

portefaix-policies - [Open Policy Agent](#) and [Kyverno](#) rules for the Portefaix project

portefaix-inspec-gcp, **portefaix-inspec-aws**, **portefaix-inspec-azure** - [Inspec](#) profiles for infrastructure tests

Terraform Registry - Terraform modules and providers

monitoring-mixins - Collection of reusable and configurable Prometheus alerts, and Grafana dashboards.

bento - Some Vagrant baseboxes made using Packer (Archlinux, Debian, CentOS, FreeBSD, OpenBSD, NetBSD)

plio - 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, ...)

zeiot - Docker images for ARM v7/v8: Prometheus, Domoticz, CoreDNS, Prometheus exporters, Grafana, Nats, ...)

helmsman Text User Interface for Kubernetes

Automating

divona - A Linux station or virtual machine configuration tool based on Ansible. Compatible with Archlinux, Debian, CentOS, FreeBSD, NetBSD, OpenBSD and OSX

galactus - Terraformization of projects (Github, Gitlab, ...)

scame - A turnkey configuration of Emacs

miv - A personal configuration for Neovim

Various

abraracourcix (Golang, gRPC) - A simple shortened url generator supporting several storage backends (BoltDB, LevelDB, Redis, MongoDB, ...)

aneto - (Golang) - A backup tool using Amazon Glacier

enigma - (Golang) - A cloud vault using Amazon S3 and Amazon KMS

chione - (Golang) - CLI to retrieve information on ski resorts (snow cover, open slopes, ...)

pilotariak - (Golang, gRPC) - Tools to retrieve information on Basque pelota events

Emacs

gotest.el - An Emacs mode to interact with unit tests in Go

phpunit.el - an Emacs mode to interact with PHPUnit unit tests

sift.el, **ripgrel.el** - Interaction with Sift or Ripgrep, alternatives to grep

IOT

raspberry (tools for Raspberry PI), **jarvis** (Kubernetes cluster on RaspberryPI) **home-assistant** (home automation configuration)

nicolas.lamirault@gmail.com

+33 7 61 44 32 35

Bordeaux

