

# Nicolas VION

DEVOPS - IT ARCHITECT | 10+ YEARS EXPERIENCE | KUBERNETES IN PROD. ENVIRONMENT: 3 YEARS EXP.

☎ +33.630803043 | ✉ nicolas.vion@icloud.com | 🏠 nicolasvion.github.io | 📷 nicolasvion | 🌐 nicolasvion

## Experience

---

### Oxalide

Paris, FR

DEVOPS - IT ARCHITECT

April 2016 - NOW

- Design, deployment and configuration of High Availability Kubernetes Cluster with Docker
  - Deployed on VMWare with Kargo (15 nodes).
  - Deployed on AWS with Kops (15 nodes).
  - Deployed on KVM with Ansible (4 nodes) on a GlusterFS Cluster (Heketi).
  - Monitoring with Prometheus and Grafana. Alerting with an ELK-Based Solution.
  - CI/CD with Gitlab / Jenkins + Helm : Build Docker Images - Applications Deployments - Helm Deployment.
- Design, deployment and configuration of Auto-Scaled High Availability Web Platform on AWS
  - Deployed with Terraform : Route53, CloudFront, ELB, CodeDeploy, ASG, VPC, SG, EC2, RDS, Elasticache.
  - Deployed with Chef : Haproxy, Varnish, Nginx, Apache, Tomcat, PHP.
  - CI/CD with Gitlab / Jenkins : Build AMIs (Packer) - Terraform|Cloudformation Deployment.
- Design, deployment and configuration of High Availability Web Platform on Azure
  - Deployed with Terraform : RG, Subnet, SG, Application Gateway, LoadBalancer, VM (45 nodes).
  - Deployed with Chef : Haproxy, Varnish, Apache, PHP, Mysql (MariaDB), Memcached, Redis.
  - Benchmark with Gatling, Octoperf.
- Design, deployment and configuration of High Availability Web Platform on OVH Public Cloud with Chef.
  - Deployed with Chef : IPTables, IPSEC, Haproxy, Apache, PHP, Mysql, SOLR.
  - CI/CD with Jenkins + Ansible : Automated System Update Process.
- Design, deployment and configuration of High Availability Web Platform on Unix and Linux.
  - Deployed on VMWare VM and Bare-Metal Servers.
  - Deployed with Chef : Haproxy, Varnish, Nginx, Apache, Tomcat, SOLR, PHP, Mysql.
  - Benchmark with Loadbalancer.org
- Design, deployment and configuration of an ELK Cluster (11 nodes) on Azure with Chef and Terraform.
  - Deployed with Terraform : RG, Subnet, SG, Application Gateway, LoadBalancer, Storage Account, Blob, VM.
  - Deployed with Chef : Nginx, Elasticsearch, Logstash, Kibana.
- Ansible: Creation and maintenance of Playbooks | Chef: Improvement of existings Chef Cookbooks
- Audit, troubleshooting, documentations and improvements of existings platforms

### IPGarde

Valence, FR

SYSTEM AND NETWORK ADMINISTRATOR

Sept 2012 - March 2016

- Design, deployment and configuration of High Availability Web Platform on Unix and Linux.
- Deployment, configuration and maintenance of BGP/OSPF Routers.
  - Quagga (IPv4 with Keepalived), Juniper (MX5 - MX104), Bird (IPv4/IPv6), OpenBGPD (IPv6 with CARP).
- Deployment, configuration and maintenance of Firewalls.
  - FortiGate, Pfsense, Peplink, Cyberoam.
- Deployment, configuration and maintenance of Juniper Clusters.
  - Juniper EX2200, Juniper EX4200, Juniper EX4500, Juniper EX4600.
- Deployment, configuration and maintenance of VMWare Clusters.
- Deployment, configuration and maintenance of NAS / SAN solutions.
  - DataCore, FreeNAS, QuadStor.
- Deployment, configuration and maintenance of a Backup Solution (Veeam, Ahsay).
- Deployment of a monitoring solution based on severals open source technologies (Nagios, Observium, Cacti, MRTG).

### Netissime (ELB)

Lyon, FR

SYSTEM AND NETWORK ADMINISTRATOR

May 2011 - August 2012

- Design, deployment and configuration of High Availability Cluster Platform based on KVM and XEN solutions.
- Design, deployment and configuration of an Automated Solution based on Network Boot (PXE).
- Deployment, configuration and maintenance of Email Platform.
- Deployment, configuration and maintenance of Cisco Switches.
  - Cisco 2950, Cisco 2960.
- Deployment, configuration and maintenance of a Backup Solution (Idera | R1Soft).

### DotRiver

Lyon, FR

SYSTEM AND NETWORK ADMINISTRATOR

Sept 2008 - May 2011

- Deployment, configuration and maintenance of Linux Servers.
- Deployment, configuration and maintenance of a SAN Solution (Openfiler).
- Migration of Linux Physical Servers to (KVM) Virtual Machines.

# Projects

---

## Personal Project

CREATING A FULL AUTOMATED WEB PLATFORM

Paris, FR

March 2016

- With:
  - Virtualization : KVM.
  - Firewalls : IPTables.
  - CI/CD : Gitlab / Jenkins - Ansible - Capistrano.
  - SSL Offloading with Haproxy and Caching with Varnish.
  - Website with Nginx - Pelican - Sphinx.
  - Mail Server with Dovecot - Postfix - Spamassassin - Amavisd.
  - Monitoring with Nagios - Grafana - InfluxDB - Telegraf - Prometheus - Auditd .
  - Logs analysis with ELK.

## Education

---

### Amazon

AWS CLOUD SERVICES

Paris, FR

2017

- AWS Certified Solutions Architect : Januray, 25th 2017

### Global Knowledge

VMWARE VSPHERE / VMWARE HORIZON VIEW

Lyon, FR

2014

- Deployment, configuration of VMWare Cluster and VDI Platform.

### EDX Network - Rezopole

BGP / OSPF (QUAGGA, CISCO)

Lyon, FR

2012 and 2014

- Deployment, configuration of Quagga (BGP (IPv4 - IPv6)) Routers.

### University of Lyon 1

UNIVERSITY OF TECHNOLOGY DIPLOMA

Lyon, FR

2008

## Skills

---

**Operating systems:** Linux (Gentoo, Debian/Ubuntu, RedHat/CentOS), FreeBSD, OpenBSD, NetBSD, Windows Server

**Programming languages:** Shell, Python, Ruby, YAML, JSON, XHTML/CSS, PHP, SQL, C/C++

**AWS:** CloudFront, ELB, ALB, EC2, Elasticache, RDS, EFS, S3, ASG, CodeDeploy, TerraForm, CloudFormation

**Azure:** Azure Application Gateway, Traffic Manager, Instances, VPN, Virtual Network, Terraform

**OVH:** Public Cloud, Vrack, IP Loadbalancing, API

**Virtualization:** VMWare ESX(i), KVM, XEN

**Containerization:** Kubernetes (Kubespray, Kops), Docker, OpenVZ

**Web servers:** Apache, Nginx

**Web caching:** Varnish

**HA:** Haproxy, KeepAlived, Heartbeat

**SQL:** MySQL/Percona, Galera Cluster, PostgreSQL

**NoSQL:** Memcached, Redis, Elasticsearch, MongoDB

**Queuing:** RabbitMQ

**DNS:** BIND, Unbound, PowerDNS

**Mail:** Postfix, Dovecot, Amavisd/Spamassassin

**Firewalling:** IPTables, PF, FortiGate, CyberRoam, Cisco ASA

**Network:** Juniper (Layer 2&3), Cisco (Layer 2&3), VLAN, BGP, OSPF, MPLS/VPLS, VRRP

**VPN:** OpenVPN, IPSEC, FortiVPN

**Automation:** Terraform, Packer, Gitlab-CI, Jenkins, Chef, Ansible, Puppet, Capistrano

**Benchmark:** Locust, Gatling, Octoperf, Loadbalancer.org

**SCM:** Git, SVN

**SCM platforms:** GitLab, GitHub

**Monitoring:** Nagios, Centreon, Grafana, Cacti, Icinga, Observium, Munin, PRTG, Prometheus, Heapster (K8S)

**Backup:** BackupPC, Simpana / Comvault, Veeam

**Storage:** FreeNAS, QuadStor, DataCore, NetApp, GlusterFS

**Methodology:** Agile, Kanban