

Nicolas VION

DEVOPS ENGINEER - IT ARCHITECT - 10 YEARS EXPERIENCE

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Experience

Oxalide

Paris, FR

DEVOPS ENGINEER - IT ARCHITECT

April 2016 - NOW

- 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-CI : Build AMIs (Packer) - Terraform Deployment.
- Design, deployment and configuration of a 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 a 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 a 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.
- Creation, deployment and maintenance of Chef Cookbooks
- Audit, troubleshooting, documentations and improvements of existings platforms

IPGarde

Valence, FR

SYSTEM AND NETWORK ENGINEER

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 several open source technologies (Nagios, Observium, Cacti, MRTG).

Netissime (ELB)

Lyon, FR

SYSTEM AND NETWORK ENGINEER

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 ENGINEER

Sept 2008 - May 2011

- Deployment, configuration and maintenance of Linux Servers.
- Deployment, configuration and maintenance of a SAN Solution based on iSCSI + OCFS.
- Migration of Linux Physical Servers to (KVM) Virtual Machines.

Projects

Personal Project

INDEPENDENT PROJECT [HTTPS://NICOLAS.VION.SCIENCE](https://nicolas.vion.science)

Paris, FR

March 2016

- Creating a Full Automated Web Platform 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