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 severals 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 (OpenFiler).
- Migration of Linux Physical Servers to (KVM) Virtual Machines.

Projects

Personal Project   *Paris, FR*
CREATING A FULL AUTOMATED WEB PLATFORM   *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   *Paris, FR*
AWS CLOUD SERVICES   *2017*
- AWS Certified Solutions Architect : Januray, 25th 2017

Global Knowledge   *Lyon, FR*
VMWARE VSPHERE / VMWARE HORIZON VIEW   *2014*
- Deployment, configuration of VMWare Cluster and VDI Platform.

EDX Network - Rezopole   *Lyon, FR*
BGP / OSPF (QUAGGA, CISCO)   *2012 and 2014*
- Deployment, configuration of Quagga (BGP (IPv4 - IPv6)) Routers.

University of Lyon 1   *Lyon, FR*
UNIVERSITY OF TECHNOLOGY DIPLOMA   *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