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Pierre Rouveyrol

Linux and Open Source Infrastructure Engineer: DevOps, Automation and Security. 12 years of experience

Skills

System Administration *OS*: GNU/Linux, BSD, limited Windows.
Monitoring and logging: Zabbix, ELK, Grafana, Prometheus, Loki, Nagios, Icinga, Graylog.
Automation and IAC: Ansible, Puppet, Foreman, Rundeck, Kubernetes, Terraform

Virtualization and containers KVM, QEMU, Xen, VMware, Docker/Podman, Docker Compose, Kubernetes.

Security Rapid7 InsightVM and InsightIDR, Azure Sentinel, Pentesting, Applied cryptography, PKI management.

Network PFSense/OpnSense, Fortinet, DHCP, DNS, VPN: IPSec, OpenVPN and Wireguard
Nginx, Apache, HAProxy

Cloud Openstack, Kubernetes, Azure, AWS, S3, Swift, CEPH, Rook.

DevOps Git, Gitlab CI/CD and Jenkins

Development C, C++, Python, Bash, Java, Ada, Ruby, Go. Web: Flask and Hugo. REST APIs.

Soft skills Experience introducing security controls and standardising operational practices across international organisations. Managed and recruited L1 and L2 support teams, delivered training in security, cryptography and Git, and participated in 24/7 on-call rotations for the past five years. Comfortable working in Scrum and other agile environments, using Jira, ServiceNow, Redmine and GitLab workflows.

Experience

03.2023–present **Linux Systems and Automation Engineer**, **VSHN**, Zürich, Switzerland

- Maintaining reliable operations across more than 1,000 Linux servers for over 100 customers as part of the Managed Servers team, with Puppet as the primary configuration management platform.
- Developing and maintaining Puppet and Hiera configuration tailored to customer infrastructure and operational requirements.
- Designing and implementing custom solutions, including monitoring and Puppet integration.
- Taking part in operational support shifts and handling monitoring alerts and customer requests.
- Participating in 24/7 on-call rotations for production infrastructure.
- Maintaining systems through weekly maintenance and deploying critical patches when required.
- Maintaining and improving the reliability of business critical systems, primarily for fintech customers.
- Providing solution architecture for new customers.
- Migrating selected infrastructure to Terraform and OpenTofu.
- Designing resilient backup and recovery solutions for source-control systems exceeding 20 TiB.
- Participating in company governance under the Sociocracy 3.0 framework.

04.2022–01.2023 **Linux system administration, DevOps and Automation Engineer**, **LARI Digital**, Zürich, Switzerland

- Automating the company's infrastructure using Ansible, Terraform and Gitlab-CI.
- Setting up monitoring and log collection services from scratch, using Prometheus and Loki.
- Automating server setup and upgrades with Ansible.
- Setup and maintenance of a VPN using Headscale (OSS self hosted alternative to Tailscale).
- Setup and maintenance of Vaultwarden using Docker (OSS self hosted fork of Bitwarden).
- Backup automation using Restic.
- Comprehensive redesign and implementation of the security posture, including firewalls and SSH practices.
- TLS issuance automation.
- CI/CD pipelines development in Gitlab.
- Setup of email security, using DMARC, SPF and DKIM.
- Setup of DMARC monitoring using Prometheus.

05.2021–03.2022 **Linux Systems and Automation Engineer**, **Infomaniak**, Geneva, Switzerland

- Part of the team in charge of infrastructure maintenance and improvement.
- L4 incident response, MCO, automation using Rundeck and Puppet.
- Backup automation and validation with Rundeck.
- TLS Certificate issuance and renewing automation, using Letsencrypt, cfssl.
- CI/CD pipelines development in Gitlab.
- Monitoring using Zabbix, Grafana, Prometheus and ELK.
- K8s administration, containerisation of web services for use in K8s.
- HA Proxy administration, load balancing, filtering, K8s ingresses.
- S3 administration on CEPH RADOS, Provisioning and administration of Ceph, development and maintenance of helper scripts in Python and Bash.
- Migration of legacy services from Xen to Open Stack or K8s.
- Zero downtime operations on Icecast radio clusters.
- Improvement of IPAM solution, with API based DHCP.
- Night and weekend shifts.

03.2020–04.2021 **IT Security Specialist**, **MSC**, Geneva, Switzerland

- Second in charge of EMEA security.
- Migration of most of the infrastructure to Azure.
- Architecturing of Azure services to improve security.
- Deployment and management of worldwide web allow listing policy. Python development of services to streamline requests related to allowlisting policy.
- Monitoring and incident response using Splunk, Azure Sentinel.
- Company wide software upgrades through GPO.
- Designing physical security architecture to protect videosurveillance and identification systems.
- Worldwide level 3 support on security related matters.
- Management of L2 teams in Greece, Brazil and Italy.

01.2017–02.2020 **IT Security Specialist**, **Viseo Group**, Grenoble, France

- In charge of company wide security improvement, maintenance and incident response, as well as IT operations.
- International level 3 IT support for Linux systems, networks and cloud infrastructure.
- Management of L2 teams in Morocco, Philippines and France.
- Introduction of Ansible to manage security controls on all servers of the company.
- Automation of server provisioning inside OVH's Openstack services, migration of all on-premises servers to OpenStack.
- Automation of SSH access management using Vault for key storage and Ansible for deployment.
- Upgrading of all legacy web services, contributions to GLPI, Fusion Inventory.
- Introduction, installation and maintenance of Rapid7 InsightVM SIEM solution to manage security on servers and user terminals.
- Introduction and deployment of Microsoft Intune for user terminal management.
- Maintenance of network services using PFSense, installation and upgrade of physical and virtual instances.
- Setup and maintenance of IPSEC VPN links with customers using PFSense.

2015–2016 **Cybersecurity Engineer**, **Thales**, Montbonnot, France
- Security consulting on an undisclosed SCADA project.
- Applying EBIOS methodology to a critical infrastructure project.
- Automation of SSH based access control.
- Pentesting monitoring, distributed and web services and Scada systems.
- Improvement of architecture for security.
- Design and implementation of security controls using Jenkins.

2014–2015 **Research Engineer**, **Inria: Privatics research team**, Montbonnot, France
- Research and development of a password guessing algorithm for targeted attacks based on Markov chains.
- Solving performance and memory constraints related to operations on huge datasets.
- Several talks given about the project and its targets and implications.
- More details: **project page**.

03.2014–09.2014 **Research Intern**, **Inria: Privatics research team**, Montbonnot, France
- Feasibility assessment of consumer grade Wi-Fi APs exploitation as a geotracking botnet.
- Reverse engineering of consumer grade internet set top boxes to evaluate the feasibility of deploying large scale, privacy threatening malware.
- More details: **paper**.

Languages

French **Native**

English **Fluent** *Primary working language throughout my professional career*

German **Basic working proficiency** *3 years in school, day to day use in Switzerland and abroad*

Education

Academic

2015–2016 **Master's degree in cybersecurity**, *SAFE programme: Security, Auditing and Digital Forensics*, Université Joseph Fourier

2013–2014 **First year of Master's degree in Computer Science**, *International MoSIG program*, Université Joseph Fourier

2012–2013 **Bachelor's degree in Computer Science**, *Video Game Design*, Université du Québec à Chicoutimi

2010–2012 **DUT in Computer Science (French two year university diploma)**, *IUT 2 de Grenoble*, Université Pierre Mendès-France, *Rank: 10/84*

2007–2010 **Scientific Baccalauréat, Engineering Sciences specialisation**, *Lycée Ferdinand Buisson*

Additional coursework

07.2013–09.2013 **Computer Networks**, *https://www.coursera.org/*, Computer Networks, University of Washington, *Grade: 96/100*

10.2011–12.2011 **AI-Class**, *https://www.ai-class.com/*, Introduction to Artificial Intelligence, Stanford University, *Grade: 98/100*