

# LAURENT GEHLEN

UNIX/LINUX SYSTEMS EXPERT



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## Skills

### Operation System Linux

Standards definition, integration of Linux systems in a global infrastructure and implement the application requirements.

### Security of Unix environment

Point of contact for the security topics on Unix, solution-oriented with an Unix expertise mind set.

### Scripting and DevOps

Automation scripts, Description Infrastructure as Code, development of command-line tools and web interface.

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## Knowledge

Red Hat / Debian

Fedora / Ubuntu

AWS

RHEV / KVM

Cobbler / RedHat Satellite

bind & dhcpd

Apache

MySQL

DRBD

Sendmail / Postfix

Munin

Mondo Rescue / Rear

IPTables / IPFilter

Fail2Ban

AD integrations

Kerberos

SELinux

Pen-tests

nmap

Shell script (Bash/KSH)

Ansible / Chef

Git / Subversion

Python

PHP

Agile / Scrum

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## Experience

### Linux Specialist - IBA Consultant Huxley IT

11/2018 - 12/2021 (Current)

My first mission as consultant!

The goal is to automate the deployment of the IT rack which is shipped with the proton therapy solution. This deployment consist of provisioning the hardware, building a VMWare cluster, installing the Linux VMs (Debian, OpenSUSE and SLES) with all the applications on top of it. The automation and orchestration is done with Ansible. And Cobbler was used to bootstrapped the OS (Linux & ESXi netinstall).

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### DevOps - StepStone Infrastructure Ops

09/2016 - 10/2018

As part of the Operations team, I participate into day to day tasks like systems upgrades (aptly, apt-dater). On the other hand, as DevOps I'm working in project mode to improve the infrastructure service.

By designing and deploying managed tools my goal is to provide automated and foundation services to my team but also to Devs and DevOps of other teams.

Freshly arrived at Stepstone, I directly took part in the main project: migration of the production platform from our regional data-center to AWS. I was in charge of the shared storage of the back-end servers (NFS + DRBD) and also of the DNS migration (Route53 + pdnsd).

Then, I proceed into the review of servers inventory tool (Django, Python, MySQL). Improvement of the content by data consolidation, extension of data model: ownership and patching groups definitions, API's extension: writing of Quality Check and input (apt-dater, ansible, ...) views.

I was also working on the implementation of Ansible for config management and the beginning of provisioning on AWS and Nutanix (KVM).

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Within the IT department of GDF-Suez, I am the Linux expert, in charge of all technical Linux related matters/applications. In addition, I fulfil the role of security officer's relay for the Unix team. Below is a detailed, but not exhaustive list of tasks I carry out as part of my job:

**Tech Watch:** Testing new hardware and technologies, new OS versions, and new applications (System oriented).

**3rd Line Support:** Performing Root Cause Analysis of complex issues, providing solutions for challenging problems and following up cases with providers/suppliers.

**Development / Scripting:** Automizing tasks (KickStart files, installation scripts, ...), improving tools by writing plug-ins, and developping tools for internal usage (like management web interfaces or 'wrapper scripts').

**Operational Tasks:** Operating production for complex or undocumented tasks, implementing new tools and services for Operations (like Cobbler, MediaWiki, SVN Repo, or several web interfaces)

**Technical Writing:** Drafting official documentation (like Standards, conventions, and Production Hand Books) but also more personal documents (like HowTo, Cheat Sheet and Notes)

**Project:** Maintaining close contact with the customers and application owners, but also interacting with the other teams, and delivering documentation (See 'Tech Writing' > 'PHB') and implementations.

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## Student training - Fabelec S.A. Linux Admin Trainee

02/2007 - 06/2007

I started my training at Fabelec with a software upgrade on the entire existing Linux infrastructure. Afterwards, my task was to design a new turnkey mail service suitable for small and medium-sized enterprise. I defined the architecture and automated the full installation and the entire configuration. The objective was to be able to deploy easily a mail server on the client site with only an ISO, an internet connection and an answer sheet provided by the customer.

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## Education

### A series of Red Hat Trainings:

- RHCE Rapid Track Course (RH300)
- Red Hat Enterprise Virtualization (RH318)
- Red Hat Enterprise Security Network Services (RHS333)
- Red Hat Enterprise Deployment and Systems Management (RH401)
- Red Hat Server Hardening (RH413)
- Red Hat Enterprise Performance Tuning (RH442)
- Automation with Ansible (DO407)

### Graduate from the Haute École of Brussels (HEB)

- Bachelor, Computer and Information Sciences - Network and Telecom (2004-2007)

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## Certifications

### Certified ScrumMaster - Scrum Alliance CSM

Exam: 08-10-2015  
Validity: 30-09-2017

**Description:** A Certified ScrumMaster® helps project teams properly use Scrum, increasing the likelihood of the project's overall success. CSMs understand Scrum values, practices, and applications and provide a level of knowledge and expertise above and beyond that of typical project managers. CSMs act as «servant leaders,» helping the rest of the Scrum team work together and learn the Scrum framework. CSMs also protect the team from both internal and external distractions.

**Link:** [www.scrumalliance.org/certifications/practitioners/certified-scrummaster-csm](http://www.scrumalliance.org/certifications/practitioners/certified-scrummaster-csm)

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### Red Hat Certified Engineer RHCE

Exam: 10-10-2014  
Validity: 10-10-2017

**Description:** An RHCE® certification is earned by a Red Hat® Certified System Administrator (RHCSA) who has demonstrated the knowledge, skill, and ability required of a senior system administrator responsible for Red Hat Enterprise Linux® systems.

Professionals holding this certification have continually helped their companies with successful deployments and migrations.

**Link:** [www.redhat.com/training/certifications/rhce/](http://www.redhat.com/training/certifications/rhce/)

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## Red Hat Certificate of Expertise in Server Hardening RHCOE Server Hardening

Exam: 04-12-2015

Validity: 04-12-2018

**Description:** An IT professional who has earned the Red Hat® Certificate of Expertise in Server Hardening has demonstrated the knowledge, skills, and abilities needed to understand and apply standards-based best practices to secure Red Hat Enterprise Linux® systems against unauthorized access.

**Link:** <https://www.redhat.com/en/services/certification/rhcoe-server-hardening>

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## Red Hat Certified Virtualization Administrator RHCVA

Exam: 30-03-2012

Validity: 01-10-2017

**Description:** The RHCVA certification is for system administrators whose responsibilities require them to have the skill and knowledge to deploy and manage virtual hosts in production environments using Red Hat® Enterprise Virtualization.

**Link:** [www.redhat.com/training/certifications/rhcva/](http://www.redhat.com/training/certifications/rhcva/)

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## Novell Certified Linux Administrator CLA

Exam: 21-01-2011

Validity:

**Description:** The Novell Certified Linux Administrator is a certification for day-to-day administration of installed SUSE Linux Enterprise Server networks.

**Link:** [www.novell.com/training/certinfo/cla/](http://www.novell.com/training/certinfo/cla/)

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## Linux Professional Certification Level 1 LPIC-1

Exam: 07-02-2009

Validity: 07-02-2014

**Description:** The Linux Professional Institute Certification (LPIC) program is designed to certify the competency of IT professionals using the Linux operating system and its associated tools. It is designed to be distribution neutral, following the Linux Standard Base and other relevant standards and conventions.

It is first IT certification program to be professionally accredited by the National Commission For Certifying Agencies.

**Link:** [www.lpi.org/linux-certifications/programs](http://www.lpi.org/linux-certifications/programs)

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### *Languages*

#### French

Mother tongue

#### English

Proficiency

#### Dutch

Working knowledge

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### *Others*

#### Hobbies

- Linux and Free Open Source Software
- Sports (Ultimate Frisbee, Field Hockey, Climbing, Biking, Dancing)
- DIY

#### Social / Community Involvement

- **SeRoM Wiki** Administrator
  - Scouts leader from 2001 to 2007 (Certification as a children's activities instructor/holiday camp monitor)
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