Guillaume Dedrie

DevOps/SRE/Cybersecurity

Grenoble (38), France
✉ *guillaume.dedrie@gmail.com*
🌐 *guillaume.dedrie.fr*
Nationality: French
Age: 36

Introduction

I am a qualified Cyber Security Engineer with over 10 years experience involving agile software development practices and DevOps philosophy in a field where security is the top one priority.

Pragmatic with a strong team spirit, I also like to think out of the box and love to learn new things.

Professional Experiences

2023

OWN.security, *SOC/CERT*, full remote

- ○ (2023 June — current) SRE/Developper - CERT team:
  - − Development of an External Attack Surface Management (EASM) stack to handle customers incidents.
  - − Handling CERT infrastructure:
    - · Installation, provisioning and monitoring of in-house and cloud servers;
    - · Assessments and deployments of tools and applications;
    - · Handling OpSec Analysis virtual desktop on-demand.
  - − Handling Analysts day-to-day needs (internal developments or tools/services PoC).
  - − Onboard and train new engineers for best practices developments (CI/CD, Containers, . . .).

2022
2023

Scaleway, *Cloud provider*, full remote

- ○ (2022 October — 2023 April) DevOps — Managed Database (PostgreSQL, MySQL and Redis™):
  - − Development on functionalities that allow customer to easily administrate Database instances without having to deal with:
    - · High-availability and Replications.
    - · Monitoring.
    - · Backups (on-demand or automatically).

2014
2022

Quarkslab, *Cybersecurity Lab*, full remote since 2015

- ○ (2020 — 2022 October) SRE/DevOps — QShield, a source code obfuscation software based on LLVM:
  - − Administrating, monitoring {Linux (Debian), Android, Apple, Windows} Physical and Virtual Servers/Devices used by developers to tests and release the software.
  - − Setup of GitLab CI/CD workflows and scripts for Automated and Secure deployment to customers.
  - − Development of an in-house software license monitoring and deployment system to ease the creation, renew and expiration follow-up by developers and sales people.
- ○ (2014 — 2019 december) DevOps — QFlow (formely IRMA), an Automated File Analysis Platform:
  - − Improving Deployment and Scalability of the plateform in order to be able to handle a large amount of files to analyze. This include Functional testing, Database administration, design and bench, Message queuing implementation and using Infrastructure as Code tools.
  - − Conception and development ({Front,Back}-end) of an 'USB Kiosk' to perform USB Key analysis in order to detect malwares.
  - − Customers trainings on self-hosted deployments and administration of the platform.

2018
2018

Certification: Offensive Security, ESIEA, 6 months

- ○ Opens-source Intelligence (OSINT), methodolgy for collecting, analyzing and making decisions about data publicly accessible.
- ○ Network Reconnaissance.
- ○ Vulnerability research and exploitation (Priviledge escalation, injections, . . .).

2018
2022

Grenoble INP — Ensimag, *Engineering School*, Grenoble

Lecturer and practical exercises supervisor for Computer Science students.
Offensive Security, Networks and Cryptography.

2017 — **Certification: Data network Principles**, IMT Atlantique
- ○ OSI model.
- ○ Network Protocols (IP, TCP, . . .) and routing.
- Certificate: https://www.fun-mooc.fr/cert/GVdO89/

2013
2014 — **Theodo**, *Service Company*, Paris
- ○ Web Developer and DevOps
  - Frontend and Backend engineer for Web applications using Scrum methodology and TDD.
  - IT Administration, following DevOps philosophy.

2010
2013 — **STMicroelectronics**, *Semiconductor manufacturer*, Crolles
- ○ Software Engineer
  - Development of CAD Tools for analog and digital components (IO, memory, IP).
  - Regression testing for production.

Skills

Technical Knowledge

Programming:	Python, Javascript.	Scripting:	Bash, PowerShell.
IaC:	Ansible, Packer, Terraform, Vagrant, Vault.	Scalability:	Consul, HAProxy, Traefik.
Public Cloud:	Scaleway, AWS.	Orchestration:	Swarm, K8s.

Back-End: FastAPI, Redis (Cache), RabbitMQ (Celery), SQLAlchemy.
Databases: PostgreSQL, Elasticsearch, MySQL, Redis.
Observability: Grafana (Dashboard, Agent, Loki), Prometheus, Sentry, Kibana.
SysAdmin: Linux/Windows/macOS, QEMU/KVM, {ip,nf}tables, configuration hardening.
Network tools: Wireshark/tcpdump, Masscan/Nmap, Scapy, Netcat/Socat.
Offensive tools: Metasploit, Burp Suite, SQLMap, Hydra/Patator, Hashcat.
Misc: Arch Linux, Git, Vim, LaTeX.

Work Methodologies

Pomodoro technique, Test Driven Development, Scrum, PDCA, A3 Thinking

Foreign Languages

French:	Native language	English:	Business level (TOEIC: 955/990)

Education

2010
2013 — **Engineer's Degree**, *Information Systems Engineering*, Grenoble INP — Ensimag, Grenoble
- ○ Complex systems architecture.
- ○ Code Analysis for Safety and Security.
- ○ Telecommunications.
- ○ Object relational database management system.

2008
2010 — **Higher National Diploma in Computer Science**, University Institute of Technology, Orléans
- ○ Software Architecture and development.
- ○ Database.

Regular Talks

March 2019 — **Presentation: "DevOps et projet IRMA" (French)**, *Ensimag Tech Meetup*, Grenoble
https://drive.google.com/file/d/1DMVJebbHYiCOIuBxJZXJyd1NFbiG2UIx/view?usp=sharing

February 2017 — **Presentation: "A trip through the security of DevOps tools"**, *DevSecCon Asia*, Singapore
https://www.devseccon.com/asia-2017/session/a-trip-through-the-security-of-devops-tools/

November 2015 — **Workshop: "Improve IRMA"**, *GreHack*, Grenoble
https://grehack.fr/2015/workshops

June 2015 — **Presentation: "IRMA: Incident Response and Malware Analysis"**, *SSTIC*, Rennes
https://www.sstic.org/2015/presentation/irma_incident_response_and_malware_analysis/

May 2015   **Lab: "Adding a probe to IRMA"**, *HITBSecConf*, Amsterdam
https://conference.hitb.org/hitbsecconf2015ams/sessions/lab-irma-framework/

Leisure activities

Mountain Sports (Hiking++, Trail, Skiing, Alpinism), Muay Thaï.

Since 2009   **Volunteer**, *French Red Cross*
First-Aid Teacher. I also assist competitors or spectators during sports competitions, concerts, or in case of disasters.

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