

# Aurélien DUBOC

## Cloud Security Engineer | DevOps enthusiast

[github.com/zteed](https://github.com/zteed) [www.duboc.xyz](http://www.duboc.xyz) [root-me.org/zTeeed-115405](https://root-me.org/zTeeed-115405) [hackthebox.eu/profile/190724](https://hackthebox.eu/profile/190724)  
📍 62 rue Brancion, 75015 Paris, France 📅 Born in 1996 📞 +33 6 28 27 88 29 📧 aurelienduboc96@gmail.com 🇫🇷 Nationality : French

## EDUCATION

- 2017-2020 Master of Science | Major in systems and network security | IP Paris / TELECOM SudParis University
- 2014-2017 Three-year undergraduate intensive course in mathematics and/or physics to prepare for nationwide competitive examination | Michelet High school
- 2014 High School Diploma with honours, major in science | NDS high school

## SKILLS

**DevOps :** Kubernetes, Helm, Docker, Consul, Vault, Flux, Terraform, Ansible, Gitlab CI, AWS, GCP, OVH, 3DS, Proxmox  
**Network :** Cisco IOS network filtering, SSL VPN tunnels, LB, HIDS, IDS, IPS, SIEM

wazuh elk

**Computing :** Python, Bash

**Web security :** SQL injection, Xpath injection, LDAP injection, RCE, RFI, XSS, CSRF, obfuscation and escape...

dirb gobuster beef wfuzz burp suite sqlmap

## PROFESSIONAL EXPERIENCE

- Now**  
**Jun 2021** **SRE/DevOps Engineer, QUICKSIGN, France**
  - Stabilize and improve cloud infrastructure (OVH Private Cloud + Google Cloud Platform)
  - Improve the CI / CD chain
  - Monitor and ensure the reporting of DevOps projects
  - Set up monitoring and good usability solutions as well as capacity planning monitoring
  - Ensure the technological watch / proposal of choice for the technologies to use
  - Lead technical change projects as well as current infrastructure
  - Manage the transition from POCs to production

Terraform Helm Kubernetes Flux Ansible Prometheus Grafana Icinga Gitlab CI Kafka Python
- Jun 2021**  
**Jun 2020** **Cloud Security Engineer, OUTSCALE, France**
  - Improve hardware/software inventory for vulnerability checks and security monitoring.
  - Manage automation of vulnerabilities treatment for SOC team building a custom Natural Processing Language model binded with CVE rss feeds and OCSInventory (developing custom plugins)
  - Build several security challenges, deploying infrastructures and services using Terraform/Ansible
  - Improve security alerts by configuring Kibana watchers about logs coming from Outscale API (which is AWS compliant) via a rsyslog stack, also by improving Wazuh rules

Terraform Ansible Saltstack spacy elasticsearch ejbca painless Gitlab CI ocs jira cocalc Python Perl
- Jun 2019**  
**Sep 2019** **Security Engineer Intern, NEXTER, France**
  - Working on CAN protocol, Vector CANoe software, Vector CAN Disturbance Interface VH6501.
  - Build a software (Python) driving CANoe through a COM API, making scenarios of cyber attacks, analyzing vulnerabilities of CAN bus architecture.

Python cantools win32com Git Windows system
- Jun 2019**  
**Jun 2018** **Full stack developer, IMT, France**
  - Three-month internship followed by a one-year part-time contract for developing web applications.

Python-Flask PHP Javascript Git PostgreSQL CentOS Linux system

## VOLUNTEER EXPERIENCES

- Now**  
**Sep 2017** **President/Member of HackademINT, TELECOM SUDPARIS CYBERSECURITY CLUB, France**
  - Presidential function for 1 year from April 2018 to April 2019, planning weekly cybersecurity training.
  - Designed the club network and system infrastructure.
  - Participation in competitive challenges (Capture The Flag) accross France and online.

CTFd RootMe HackTheBox OverTheWire DELL C6100 DELL R710
- Apr 2019**  
**Apr 2018** **Web Manager at MiNET, TELECOM SUDPARIS INTERNET SERVICE PROVIDER ASSOCIATION, France**
  - Extended IT management : Servers, switches, routers, NAS and Deployment of WiFi and Ethernet enterprise network for about 1,000 members of the TELECOM SudParis campus

Cisco Angular6 WLAN Controller

## PROJECTS

### JUPYCLOUD

2021

Developing a JupyterHub CloudSpawner which enables JupyterHub to spawn single-user notebook servers in a Virtual Machine (on AWS, GCP, Azure or on premise) thanks to Terraform or Boto3

JupyterHub Kubernetes DockerSwarm Terraform Packer Ansible Python

### TRADDE

2020-2021

Developing the backend and building a scalable and resilient infrastructure for a French platform connecting independent sales agents and companies.

Terraform Ansible GitlabCI Python-Tornado Motor MongoDB AWS S3 LambdaEdge ApiGW ECR ECS Lambda Fargate VPC

### NEWNORMAL - UK COMPANY

2020

Developing an IoT software with RPi images to manage ad spaces on hand sanitizer dispensers

Node.js MongoDB Bash RPi

### POC ON ANTI-SPAM PROTECTIONS OF ONLINE PAYMENT SYSTEMS

2019-2020

Scaffolding of a distributed attack POC via a server cluster targeting online ticket counters bypassing the anti-spam protections of online payment systems for the purchase of bulk tickets.

Java Python Docker Swarm Selenium

### ROOTME API USING DISTRIBUTED COMPUTING WITH REDIS

2019

This async API is parsing with lxml the website RootMe which deals with cybersecurity challenges in order to help developers to use the data from this website. The data is stored by workers instance in redis streams.

Python-Tornado Docker Redis

### CISCO VLAN MANAGER

2019

This API and web application enable managing VLANs on cisco devices.

Python-Netmiko Python-Flask Docker Redis

### EXPANDING A PROXMOX CLUSTER AUTOMATICALLY

2018-2019

Deploy virtual machines on specific subnet on which you can get ssh with LDAP credentials.

Proxmox Ansible Qemu Bash

### DEVELOPMENT OF AN AUTOMATED IT SECURITY AUDIT TOOL IN A VIRTUALIZED ENVIRONMENT.

2018-2019

Automated audit of an active infrastructure with various network and personal services running with Proxmox hypervisor. Development of a logstash plugin for lynis

Proxmox Ansible Lynis Elasticsearch Logstash Kibana LXC Qemu KVM

### SELF DRIVING CAR MADE IN ASSEMBLY

2018

The car follows a black line on a circuit. The master card manages the direction and interacts with a slave card which manages the display of the data

assembly-language-programming

### RECOGNITION OF HANDWRITTEN SIGNATURES ADXL335

2016-2017

Authentication of handwritten signatures without taking out the big mathematical tools.

Arduino Python PostgreSQL

## AWARDS

### COMPETITIVE HACKING - CAPTURE THE FLAG (CTF)

2018 -

- 1st place at HackSecuReims 2020 - Event and Capture The Flag competition organized for students with about 100 people with 600€ of cashprize for the winners (07/02/2020)
- 2nd place on site at InsHack2019 - Capture The Flag competition organized by the INSA Lyon university with about 70 people on site (02/05/2019)
- 1st place at Mars@Hack - Event and Capture The Flag competition organized by the French Air Force with 1000€ of cash-prize for the winners with a coin of the Cyber Defense Command (08/03/2019)
- 1st place at HackSecuReims 2019 - Event and Capture The Flag competition organized for students with about 100 people with 600€ of cashprize for the winners (01/02/2019)
- 1st place at WaveStone Cybersecurity Night Out - Capture The Flag cybersecurity competition organized by WaveStone (19/12/2018)

CTF Team T35H Team HackademINT Reims Lyon French Air Force Mont de Marsan Paris [ctftime.org/team/45998](https://ctftime.org/team/45998)