

Vanzaghi Axel

SRE - SOFTWARE DEVELOPPER

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Experience

OVHcloud

Toulouse, France

SRE - SOFTWARE DEVELOPPER

Jun. 2022 - Now

- Working in team that maintains public cloud infrastructure using OpenStack over 20 000 hosts for more than 1 000 000 cores spread in 8 countries.
- Python programming to help self-healing or optimize control plane host placement spread in datacenters.
- Became OpenStack Mistral project team lead and contributor to maintain project as it's core to our self-healing strategy.
- Done operation for maintenance of the infrastructure as well as on-call duty.
- Technologies : Python, OpenStack, Ansible, Puppet, Grafana, Prometheus

NBS System

Nantes, France (working from home)

SECURITY ANALYST

Jan. 2021 - May 2022

- Maintaining high security level for over 5000 machines, hosting from eshop website to full enterprise information system, with infrastructure and application review.
- Maintaining and upgrading an internally developed SIEM to help with the global security, as well as the open source WAF NAXSI to help protect web applications
- Done 2 web forensics analysis for our client after they had a breach (one payment skimmer and one gitlab data loss)
- Done a full Fortigate firewall configuration review containing over 130 rules
- Technologies : Golang, Kubernetes, Terraform, AWS, ElasticSearch, Grafana, Kafka, NGINX, NAXSI

Ecole Internationale des Science du Traitement de l'Information (EISTI)

Pau, France

C++ TEACHER

Feb. 2017 - May 2017

- Taught C++ basics to a 30 students class in computer science engineering school

Viveris Technologies for Airbus Defence & Space

Toulouse, France

SECURITY SYSTEM ENGINEER

Sept. 2015 - Sept. 2020

- Development of a test bench for national file gateway using FTP/SFTP to automate and accelerate testing. Integrated in Jenkins for CI.
- Automating installation for unidirectionnal file gateway, to make it easily installable and configurable by technicians.
- Exportable file gateway system development and automation with low level container for security.
- System hardening for exportable file gateway with OpenSCAP to enforce security at installation.
- Adapting national file gateway to be run in virtual machines, with virtualization of hardware modules.
- Software integration in Terraform like proprietary software for deployment on 3 redundant worker nodes and 2 redundant database nodes.
- Technologies : Python, Bash, RedHat/CentOS RPM, LXC, OpenSCAP, SoftHSM, PostgreSQL, Heartbeat/Pacemaker, DRBD

Open Source

My projects on github

- Brainfuck (an esoteric programming language) interpreter written for a CodingGame challenge, adapted for CLI use
- Fake HTTP server to log request made from a server, can be used in SSRF attacks
- IP tester to get geolocation and reputation for IP addresses, used daily in my work for whitelisting process
- Serverless bank account manager, which can be used to do basic money management, primary goal is to learn AWS serverless services
- Simple SSH honeypot that handles a correct SSH session but always responds password is wrong while logging credentials tried
- Technologies : Golang, Python, AWS (API Gateway, Cognito, Lambda, Aurora, CloudWatch), vanilla HTML/JS

Skills

Programming Languages Bash, Python, C, C++, Java, Golang (learning), Rust (learning)

Technologies Network protocols, Docker, Kubernetes, AWS for virtual infrastructure and security, Linux, Terraform

Languages French (Native speaker), English (Professional working proficiency)

Education

École Internationale des Sciences du Traitement de l'Information (EISTI)

Pau, France

COMPUTER SCIENCE ENGINEERING SCHOOL DIPLOMA (MASTER'S DEGREE)

Oct. 2015

Interests

Music Electric Guitar, played in a band

Videogames Retro gaming lover, former streamer

Offensive Security Casually breaks things in Hack The Box (2 easy boxes hacked), profile : axellink#290096