

# PROVECTIO

services informatiques managés

**Internship report • Research/Documentation on topics related to  
Cybersecurity at Provectio**

**Location • Caen: Agency - Rennes: Headquarters**

**Célian DEBÉTHUNE  
Toulouse, ENSEEIHT  
June - July 2022**



## Acknowledgements

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Benoit Matha



Mélanie Rousseau



Kévin Koummene  
Vongsavanthong

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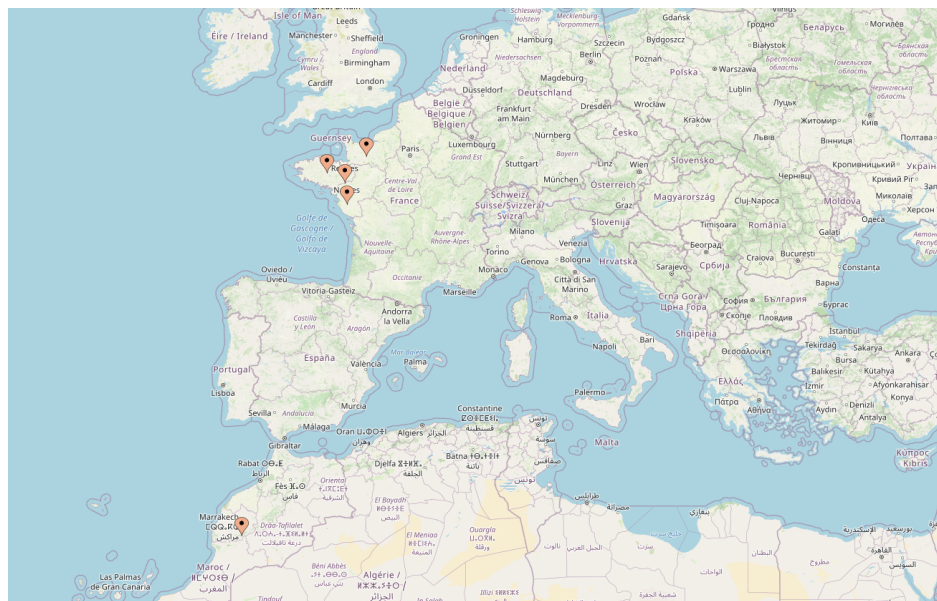
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# Summary

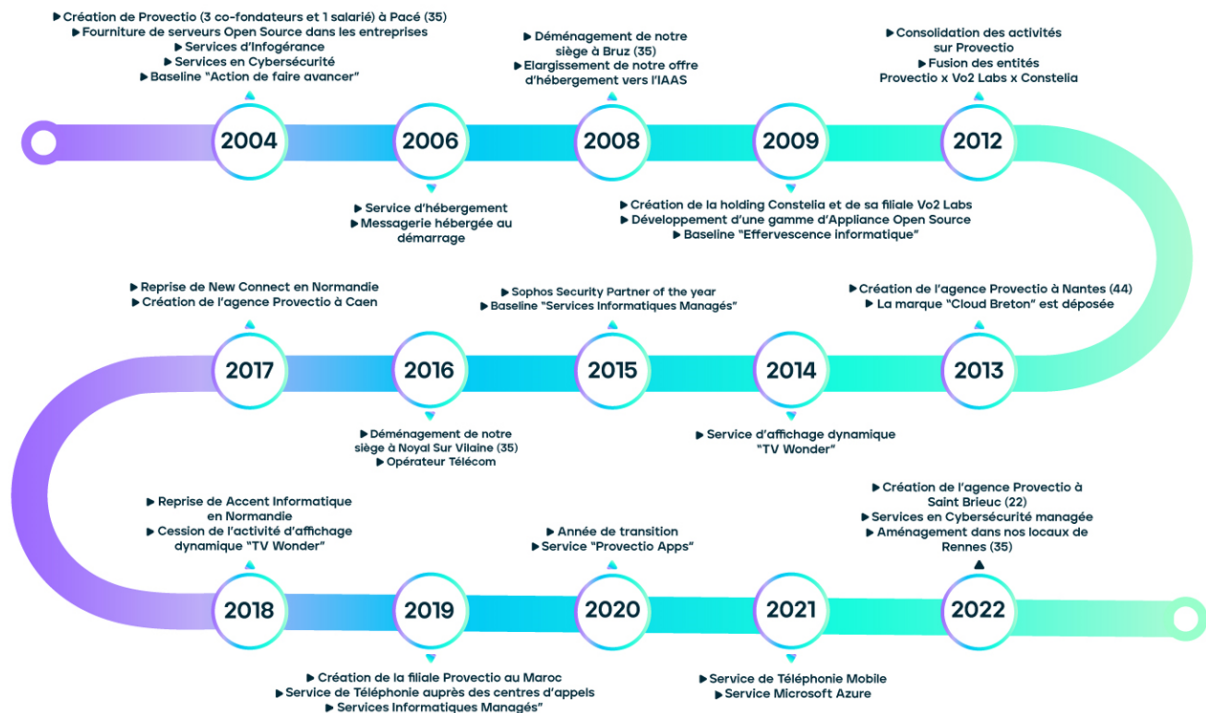
This report describes in the most precise way my experience at Provectio, the actions I have carried out, the skills acquired, the contacts obtained... It aims to be read by the greatest number of people, without requiring technical competence in the field of cybersecurity.

## Introduction

Founded in 2004, Provectio is a company that offers its skills to other companies and their information systems. These skills are among others: IT outsourcing, IT asset management, IT security, cloud computing, internet and telecom operator. The Service Center carries out all the operational and technical missions of Provectio, for all the agencies: Planning of orders, Logistics organization, Deployments and achievements, Consideration of incidents, Planning of requests, Management of on-site interventions, Enrichment of the documentation... Provectio has 36 employees and approximately 400 clients spread over several agencies:



*Map of Provectio agencies*



*Provectio's timeline*

I alternated between their site in Caen and their headquarters in Rennes. Recently, the company wants to develop its cybersecurity sector. Indeed, cybersecurity is an important part of IT at the service of professionals. It is for this branch that I worked over the period June-July 2022, almost independently at the Caen agency with weekly meetings in Rennes.

## Description of the internship

From the beginning of the internship, it was agreed that I work independently most of the time in Caen, while remaining in contact with my internship supervisor in Rennes who gives me assignments as I progress, mostly research, configuration and documentation. The first two days were therefore spent in Rennes to discover a large part of the team, the philosophy, the hardware, the software and my first missions. This first mission consisted of researching Public Key Infrastructure (PKI) and computer certificates: what is it, why is it useful, how to use them correctly. I then had to do the necessary documentation so that the rest of the team could deploy such infrastructures quickly. During the progress of my research, virtual computers were shared with me so that I could do tests/simulations on small configurations. This first mission took me almost 3 weeks. The next task was to configure a Sophos-branded firewall to use these PKIs, and write the necessary documentation.

The third involved creating phishing campaigns to train employees and raise awareness, using the Sophos Phish Threat tool, and then documenting my findings.

I participated in FixDay, a day where Provectio employees team up and compete to solve as many problems with customers as possible. It was nice, I was able to help solve a problem.

Still with Sophos products, I wrote procedures on the installation of their anti-virus and web filtering policies, application limitation...

For a day, I followed my internship supervisor in intervention at a customer for a change of equipment.

The company wishes to obtain certifications allowing it to be more competitive and to obtain better visibility as well as to be recognized. So I wrote the steps and the list of documents needed for her to get certified.

Finally, I evaluated a TOTP (Time-based one-time password) solution that had been proposed to the company that would like to add this service to their package to protect its customers.

## **Reflection on the internship**

This internship allowed me to see much more concretely what life in a company is and how IT is used there. Having appreciated what I did for several weeks, this internship confirms my orientation intentions in the third year. I acquired a lot of technical skills that will be useful to me quickly, as well as gained in communication because I exchanged with the Provectio team every day. Although being reserved, I think I have managed to integrate myself and have done useful work for the company which will be able to use, among other things the documentation that I have written.

# Appendix

## Weekly overview of internship activities :

### Week 1 (June 7):

- 2 days in Rennes
- Discovery of the PKI mission, Certificates, Active Directory and tools

### Week 2 (June 13):

- Implementation of the PKI in the Active Directory, addition of certificates for other services

### Week 3 (June 20):

- End of PKI implementation, start of firewall configuration
- Fix Day, 1 ticket solved
- Documentation writing

### Week 4 (June 27):

- Phishing campaign research, documentation
- Installing virtual machines

### Week 5 (July 11):

- Sophos in-depth research, policies... and writing

### Week 6 (July 18):

- Work on ANSSI recommendations, and on the ExpertCyber label for the company
- Evaluation of a new TOTP solution
- Setting up a local SMTP server

### Week 7 (July 25):

- Finalization of the evaluation of the TOTP solution

## Written documentation :

On this link is the result of my research and the documentation produced during my internship: <https://lapis-planarian-40f.notion.site/Provectio-Notes-dd1464cb582f426e8dfedbb8d5cc435d>