

# Abstract of Internship Report: Automating Security Assessment in Cybersecurity

As part of my Bachelor of Technology in Networks and Telecommunications, specializing in Cybersecurity at the IUT of La Reunion, I had the opportunity to complete an 8-week mandatory internship at the University of the West of England in Bristol.

This internship was a key milestone in my education, allowing me to apply the knowledge gained at the IUT while experiencing real-world cybersecurity challenges. The academic setting provided me with a certain level of autonomy, which proved invaluable in developing both my technical and organizational skills.

During this internship, I chose to focus on the challenge of automating security assessments for machines and servers. To address this issue, I developed a specialized tool aimed at simplifying the penetration testing process an essential practice for protecting organizations against cyber threats.

In this report, I will first introduce Bristol and the University of the West of England to provide context for my experience. Then, I will detail my objectives, including the development of the security assessment tool and the completion of my project. Finally, I will reflect on this experience, highlighting the technical and professional skills I acquired over these eight weeks.

By presenting the dynamic and innovative environment of the University of the West of England, I aim to emphasize the significance of this internship in shaping my professional and academic growth.