ABSTRACT

Online exams are a development of the technological era where initially exams had to be face to face, but now they can be done anywhere using an e-learning platform, but on the other hand, with online exams, security vulnerabilities will be discovered so that there are several loopholes for cheating. during the exam. Safe Exam Browser (SEB) is a safe and most frequently used exam browser. This application allows users to limit access rights to websites, systems and external applications.

The alternative solution offered in this research is to carry out security testing on the Safe Exam Browser application to test its security through several applications to identify security gaps and serve as evaluation material for the use of the Safe Exam Browser. So you can minimize cheating during the exam by using the Safe Exam Browser.

The system implemented is to execute attacks on the Safe Exam Browser application on virtual device applications, mirroring applications, and applications that can capture packet traffic. The test results concluded that the Safe Exam Browser can be run on a virtual machine application, can mirror via the AnyDesk application, and can capture information while using the Safe Exam Browser via the Wireshark application.

Keywords: Safe Exam Browser, virtual machine, AnyDesk, Wireshark.