

## **ABSTRACT**

### ***ANALYSIS OF SECURITY LOOSSES ON WEBSITES USING PENETRATION TESTING METHODS AND ISSAF FRAMEWORK CASE STUDY: WEBSITE OF AL KAUTSAR VOCATIONAL SCHOOL***

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Utilization of the website as an information system currently provides many conveniences for every community institution. One of them is that at educational institutions the website is used as a medium to convey information. Both in the form of information about school activities, registration, teacher data, and other information related to the school. As is the case with the website of SMK Al-Kutsar Purwokerto. Apart from providing convenience, websites can also have security holes that can harm users such as sql injection, clickjacking, brute force and others. So with that it is necessary to know the security gaps contained in the information system website. To find out the security holes that exist, researchers use the penetration testing method with the ISSAF framework. After penetration testing, the Al Kautsar Vocational High School website has a vulnerability to ddos attacks and brute force attacks. From the brute force attack, the researcher managed to get into the webhosting and cpanel accounts of the Al Kautsar Vocational High School website. However, in testing with SQL injection, no security holes were found. So that the website security system is safe from SQL injection attacks. And the website is also protected from attacks that utilize port 21.

**Keywords:** security holes, penetration testing, websites