

## ABSTRACT

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CTF (capture the flag) is a hacking competition to compete for the target or flags in a server. The winner is the one who has obtain the flag. In this final project CTF server will be used as the tools for network security lecture. CTF will only serve as a simulation server and the students will attack the CTF server using scanning or sniffing technique based on material that will be studied in network security lecture. Students have to crack the server and find the flag. CTF server will become a tool for lectur in giving an assessment of student based on the ability of students in capturing the flag. With this CTF server students can learn attacking technique and how to defense.

Keywords: CTF (Capture the Flag), Network Security, Sniffing, Scanning