

ABSTRACT

IMPLEMENTATION AND ANALYSIS OF FORK BOMB IMPACTS USING ARDUINO IN WINDOWS OPERATING SYSTEMS

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Universal Serial Bus (USB) is one of the mechanisms used by many people with practical plug and play functionality, making data transfer fast and easy compared to other hardware device. The Windows operating system is an operation system that is commonly used today. Attack on the Windows operating system began to appear todisable and fid weaknesses of the Windows operating system. One method of attacking the Windows operating system is Fork Bomb, wich allows someone to plant into a startup directory without using permissions or administrator mode. This study aims to implement and analyze the impact of the attack carried out by Fork Bomb. The purpose of Fork Bomb is to damage RAM performance on the computer affected by the attack. As a result RAM performance will slow to process the system from the computer affected by the attack. In previous studies Fork Bomb only carry out temporary attacks. While in this study Fork Bomb can copy file mspaint.exe in number that can be specified in the startup directory and immediately run the line code when the computer is restarted. The resaults of this study are testing Fork Bomb by embedding files and running automatically when the computer is turned on and successfully made the computer re-install for the Windows operating system.

Keyword : BadUSB, Universal Serial Bus (USB), Fork Bomb, Startup.