ABSTRACT

Society has long relied on various sources of information that have evolved from oral communication to various print media such as newspapers, journals, and magazines. Technological advancements have brought significant changes in the way information is disseminated, enabling faster and more efficient access through the internet. The internet allows people to access information easily without the need for paper, reducing waste, and reaching all levels of society. However, the use of the internet presents its own challenges, particularly for beginners. To access website addresses, an IP Address is required, which is often difficult to remember. Therefore, the Domain Name System (DNS) technology was developed to convert IP addresses into words that are easier to remember and type. DNS stores information about host names and domains in a distributed database, simplifying website access without the need to remember complex strings of numbers. This research utilizes the EVE-NG (Emulated Virtual Environment – Next Generation) software emulator to create and manage virtual network topologies. Based on this background, this study will implement the Domain Name System on Linux CentOS 8 using the EVE-NG virtual application, where the necessary packages such as bind9 for DNS Server configuration and net tools to view the IP address used by the CentOS 8 operating system will be installed.

Keyword : DNS Server, Linux Centos 8, EVE-NG, Bind9, Net Tool