

ABSTRACT

The process of configuring network devices on a large scale requires a relatively long configuration time and if this is done manually by a network administrator, the possibility of errors in writing configuration commands becomes greater, the design of a network topology with the type of Wide Area Network (WAN) requires more network devices including routers. Configuration is needed to be able to build a network so that it can be equally well connected between the routers used. With network automation, it makes it easier to configure RIP routing or on large-scale networks such as WANs, the telnet configuration on each router serves to connect the router with network automation, so that routers can be remotely via network automation. This research focuses on the automation process of configuration, testing, and network functions are carried out automatically. In this study using the python programming language with the telnetlib library to activate the automatic configuration process on the router device where the routing protocol used is RIP and the topology used is a mesh topology with the test parameters performed are interface settings, hostname and routing RIP router 1 to router 5, check network interface information, and check routing RIP. Based on the test results, the network automation system works well where the results when choosing an automated option from router 1 to router 5 and the results of checking network interface information and checking the RIP router display the interface and check the results of the RIP router starting from router 1 to router 5.

Keywords :Network Automation, Configuration, Telnet