ABSTRACT

Advances in automation technology make it easy to build web server infrastructure, without having to make repeated creations, with just a set of code defined using Infrastructure as code Terraform. However, the quality of service of the generated web server instances will be up to standard, the parameters seen in this study are comparisons of the time required in creating web server instances using Terraform Infrastructure as code and those created using Openstack. The comparison of the quality of the web server by testing the load of requests against the web server with the difference in the average value - the average comparison obtained for the time required in the construction of the web server infrastructure using Infrastructure As Code Terraform is superior to the time difference of 12 Minutes 19 Seconds, on the comparison of the entire average value for web server instances using openstack slightly superior to the difference in throughput value of 0.750 Mbit/s, packetloss 0%, delay value of 0.0035 ms, jitter value of 0.004 ms, CPU usage obtained average value - average throughout the test is 5.899%. The results concluded that the results of testing Quality Of Service web server instances using Infrastructure as code Terraform and created using Openstack are in accordance with TIPHON standards and Infrastructure As Code Terraform can be used as automation tools as a provision for the construction of web server infrastructure.

Keyword: *Web server, Infrastructure as code Terraform, Quality Of Service.*