

ABSTRACT

Data center architecture is the most important thing in building a data center. Because the data center must have good scalability and performance. Scalability is needed if there will be additional servers in the data center. And performance is needed to maintain the quality of services provided. In this research will be discuss about fat tree, jellyfish and Xpander data center topology architecture in terms of scalability and performance. The comparison parameter between fat tree, jellyfish, and Xpander is the number of hosts for scalability, throughput, latency, convergence time for performance. The results of testing the three topologies show that fat tree is excellent in term of performance, while jellyfish and Xpander is excellent in scalability.

Keywords: data center, fat tree, jellyfish, xpander, performance