

ABSTRACT

That is a must for PT.ConocoPhillips Indonesia as one of the biggest oil company with many branch offices worldwide to provide very high speed access data network -for their internal community and also their customer- as information exchanges media. Data network quality improvement is needed as growing size of information flow that through their LAN. LAN data network reconfiguration with additional SAN is one of their efforts. This Final Examination analyze how far is the improvement resulted by the reconfiguration.

Storage Area of Networks (SANs) is another option for network-based storage. SAN consist of communications infrastructure, giving physical extension, and coat of management, arranging extension, storage element, and computer system that produce very safe and reliable data transfer. Storage Area of Network (SAN) is enabling technology the storage resource conduciveness to in share, at the same time give continuous data access service, fast and easier.

The problem to be studied is limited at maximal throughput that able to pass by the network, so we can compare LAN without SAN technology and LAN interconnection with SAN technology, which one is better. The Final Examination made using methods of literature study and case study at PT.ConocoPhillips Indonesia, Jakarta.

The analysis results a conclusion that LAN data network reconfiguration with additional SAN have better significance performance than previous LAN by comparing network load traffic, utilization, and total packets in both conditions.