Abstract

PLN Pusdiklat is a special unit that responsible of conducting educational and training programs for all PLN employee which is keep increasing. In order to increase and improve the data availability and safety, the company need to implement a data backup solution which is suitable, efficient, and secure. The observation on the existing approach shows that the company adapt hybrid approach of running both Linux and Windows servers. Pointing out the backup mechanism, the approach was insufficient to handle all backup process and the company still probably take this issue lightly.

The new solution has adjusted appropriate strategies towards the implementation, including client-server backup, WAN backup, disk-to-disk backup, warm backup, full-incremental backup, and also encrypted backup. To support those strategies, we have choose Amanda backup software and CentOS to be installed on the backup server. VPN-based intranet, branded hardware and networking devices are also chosen to cope with the need.

The new system results great significance compared to the old approach. The most important thing is that PLN Pusdiklat capable of conducting regular and automated backup sessions from all desired backup clients to a centralized backup server. Moreover, the system demonstrate high degree of reliability with having slight failure and efficient performance. In addition, the system enables the user to manage the clients and the results.

Having those result, this data backup system has achieved the criteria of suitability, efficiency, and security. It will be very likely that the data availability and safety has been improved.

Key Words

Enterprise Data Backup, Cross Platform, Open Source, Amanda, Linux, Client-Server, WAN, Disk-to-Disk, Full-Incremental, Encrypted