

CHAPTER 3

RESEARCH METHODOLOGY

The steps in this project study are :

1. LITERATURE REVIEW

First step in collecting data or informations about NFS or LDAP from books or internet. The aim is this literature review can give explanation and compare between the advantages from both of the NFS and LDAP system.

2. OPERATION INSTALATION SYSTEM

Next step is installing operation system which will used be a server as well as client in each used PC. Operation system aim as a means to access programs which will to run. This project uses Cetos 7 operating system where in Cetos 7 has already available NFS System that we will used without reinstalling it.

Cetos 7 is one of GNU/LINUX distribution that come from Source Code Red Hat which developed by Cetos project. This Cetos 7 is like another OS Linux, but in Cetos 7 we can already get softwares that we will used. For example in this project we will used NFS server and LDAP. In Cetos we no need to installing but only need to update the version of NFS and LDAP.

3. CETOS CONFIGURATION

In configuration of Cetos 7 is only configuring some point like choose the used languages, the partitions that we needed to server or in client, choose the packages that we used to fill username and password to Cetos 7.

4. NFS CONFIGURATION

NFS server has already available, but we need to updatethe version of NFS. First step is running NFS services and *rpcbind start*. After that, the next step is checking The NFS configuration and *rpcbind* has been run as well as we need or

not. Next we can activation NFS service in *runlevel*. And next, make directory from data that we need to synchronized. Then, running `exportfs -av` command to synchronizing the filesystem. But in step of client configuration, we make directory for backup data storage so automatically it can related with hardisk server. But we note that it must use ip server, not the ip client itself. After that initializating server address and data directory and also type of filesystem on `/etc/fstab` directory so the data can be backed up in backup server.

5. LDAP CONFIGURATION

in LDAP configuration server, for first step we must run it in terminal with `#yum install openldap openldap-client openldap-server` command. After that, make root of LDAP and user name. And then it will edited the command according IP server with IP client.

6. MAKE THE REPORT

After all of the stages has be done, the next step is make a final report that consist of 5 chapters. This report tell about the adventages and weakness of NFS and LDAP server. And how to minimize the obstacles that might happen on data delivering from both of the server included how user knows with whom they make datasharing that do by the server system.