

Niyobyose Eddy's Linux and Computer Network Project Documentation

May 2022 work on project in computer network course instructed by Jean Piere NIYODUSENGA at Adventist University of Central Africa
Where the project consist of :

The project involves deploying 3 servers: a Redhat server, a Windows 2003 DC server, and a DC replica. The Redhat server was having telnet, DHCP, Samba, FTP, and SSH services. The Linux DHCP was assign IP addresses to all nodes on the network, while the servers was having static IP addresses. Users on both Linux and Windows clients should be able to access all services. The DC server was having 4 OUs: IT, HR, students, and Finance, with 3 users in each OU. Students in the students OU was having access to 3 light and useful apps deployed from GPO: vlc.msi, Mozilla.msi, and dropbox.msi. A directory named Quarantine was created in the DC and shared across networked PCs, with the shared resource mapped automatically upon student logins. User access was restricted according to specified guidelines, and student1's account will expire by May 15, 2022. Roaming profiles was configured for student2 and student3 to ensure their files and desktop files follow them wherever they login, and they will have all the resources shared from the server mapped automatically upon logon. Windows users was able to access services configured in the Linux server, with FTP access via CoreFTP or Filezilla. An Exchange server will be implemented to allow users to communicate within the intranet. The Linux server will also access resources shared in the Windows server 2003 via Samba services. Finally, a web server was deployed on the Windows server 2003 and a simple site with 3 pages linked together will be created for access by all clients.

April 2023 configuration of DHCP for dynamic ip address DNS, Firewall, LVM RAID1 and RAID5 in min project where I was instructed by Jean Piere NIYODUSENGA at Adventist University of Central Africa