Practice 2. Basic Services

Operating Systems: Windows Server, Centos/Debian, FreeBSD/Solaris).

Aims:

- Install a set of basic services in server systems.
- Perform the basic configuration for each service
- Test it from external computer (Host/Other Guest)

Items:
- Licenses
- Partitioning
- Start/Stop/Restart/Enable/Disable services
- Remote administration:
    - ssh, sftp, scp (access by user and by public / private key)
    - vnc
    - RDP (administration, user mode and console mode)
- Directory Server (Active Directory, OpenLDAP, Fedora Directory Server)
- User Management: Local, NIS, LDAP
- DNS Service (static and dynamic, as dyndns)
- DHCP Service (assignment by MAC)
- File Server:
    - NFS
    - SAMBA / SMB (LDAP)
    - ISCSI
- BD Server: MySQL, PostgreSQL Oracle Express (data through http)
- Web server: 2 virtual domains with CMS
- Print server
- FreeNAS + iSCSI
- Git + OwnCloud (add local clients to your host)

To deliver:
    Service logs
    History of bash commands for each service

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On Windows, activate installation events on "event viewer" and save as csv (splitted by ',')
On Linux/Unix, to obtain all commands executed type:
history >> report.txt
Memory Structure:

It will be mandatory to deliver a folder structure per Operating System with this content:

doc -> assessment block report

ssh -> linux.log, unix.log, windows.csv + historylinux.txt, historyunix.txt

vnc_rdp -> linux.log, unix.log, windows.csv + historylinux.txt, historyunix.txt

nfs_samba -> …

FreeNAS_iSCSI -> …

cups -> …

dhcp -> …

dns -> …

git -> …

bd -> …

web -> …

ldap -> …

Virtualbox Host-Only device address: 192.168.137.1/24

IP Ranges for DNS:

Unix 192.168.137.221

Linux 192.168.137.222

Windows 192.168.137.223

IP Ranges for DHCP

virtualBox disabled and with range between 192.168.137.2 and 192.168.137.50

Linux 192.168.137.51 - 192.168.137.100

Unix 192.168.137.101 - 192.168.137.150

Windows 192.168.137.151 – 192.168.137.200