

## 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

### Practice 2: Nov, 17th

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: 192.168.22.1/24

### **IP Ranges for DNS:**

Servidor de DNS Linux 192.168.22.41

Servidor de DNS Unix 192.168.22.42

Servidor de DNS Windows 192.168.22.43

### **IP Ranges for DHCP**

DHCP server on VirtualBox disabled and with range between 192.168.22.2 and 192.168.22.40

DHCP server on Linux 192.168.22.51 - 192.168.22.100

DHCP server on Unix 192.168.22.101 - 192.168.22.150

DHCP server on Windows 192.168.22.151 – 192.168.22.200