

## **Local Library – LAN Demo**

*Network* : 192.168.100.0/24

*Mask* : 255.255.255.0

### ***Server :***

- OS : Ubuntu Server 20.04 LTS
- Services :
  - isc-dhcp-server (DHCP),
  - bind9 (DNS),
  - MariaDB with GLPI (database),
  - openssh (remote connection),
  - apache2 (website hosting)
- A crontab job is running for backups. Every saturday at 5AM, a backup of the following will be made : /etc/bind, /etc/dhcp, /etc/apache2, /etc/mysql. The script can be found at the root directory of the server, as well for the backups files folder.
- IP address : 192.168.100.10
- Hostname : ubuntu-server
- Domain Name : ubuntu-server.local

### ***Workstation :***

- OS : Ubuntu 20.04 LTS
- Automatic IP addressing with DHCP
- Apps installed : LibreOffice, Gimp, Mozilla Firefox
- IP address : 192.168.100.130
- Hostname : workstation1

### ***Notes :***

- For demo purposes, the DHCP service on the server will only work if the automatic DHCP addressing of virt-manager is disabled.
- This network configuration also works with Windows OS. (tested on Windows 10)
- Issues encountered :
  - Even if the DNS service was « reachable » from the workstation machine, a misconfiguration was preventing queries from the workstation to get answers from the server. Solution : In the /etc/bind/direct file, set a « A » record with the proper address of the DNS server underneath the « NS » record with the name of the server.