

# RHCSA Practice

Objective: *Create and configure file systems*

Requirements:

- Install a RHEL 9 virtual machine that meets the following requirements:
  - One server with at least 1 additional disk of 5GB attached to it
  - One server which will be configured as a NFS Clients

## A. File system

1. Create a partition of **1GB** and create a **vfat** file system on it and mount it at **/mounts/vfat** using the UUID.
2. Create a partition of 1GB and create a ext4 file system on it and mount it at **/mounts/ext4** using the label MY\_EXT4FS
3. Create a volume group named **filestore** with a physical volume of **300MB** and create a logical volume on it of **250MB** and create a **xfs** file system on it mount it on the **/data** path
4. Create an extended partition with the remaining space and create on it a **2GB** stratis filesystem and mount it at **/mounts/users\_data**
5. Extend the **filestore** volume group with all space remaining on the disk.

## B. Managing NFS Server and Autofs

1. Create users **olivia**, **noah**, **emma**, **liam** and **ava** on the client server. Each user should have their home directory under the **/users** folder on the client server and each folder is exported on the NFS server from the **/mounts/users\_data** folder. These folders should be mounted when needed and the first user from this list must have ID **2050**.

## C. Managing share folder

1. Make user **olivia** and **noah** member of the group **accounting**. And user **emma** and **liam** member of the **procurement**.

2. Create share folder **/data/procurement** and **/data/accounting**, member of the **procurement** group should have full right on their folder and the same for members of group **accounting**.
3. Each user should be able to delete his own file and not file for other user.
4. Files created in each shared folder should be group owned.
5. User **ava** should have full right and all folders.