

DEPARTMENT FOR OPERATING SYSTEMS

# Data Storage Systems

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Lab05-NFS and SAMBA configuration

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## Introduction

In today's exercise, we'll learn how to install and configure NFS and SAMBA services on CentOS.

## Before exercise

1. Create if needed one internal network switch on HyperV.
2. Create two VMs for CentOS installations – Gen 1, 2 GB RAM, 2 CPUs, 40 GB dyn. Disk., External network

## Tasks

First part is installation of CentOS on two VMs.

1. Install CentOS – Server with GUI selection. 10.10.7.x IP address
2. Root password is **centos**

Second part is configuring NFS and SAMBA

Steps:

- install nfs-utils and samba on both VMs:  
`yum install nfs-utils samba*`
- remove firewalld from both VMs
- disable selinux on both VMs: `/etc/selinux/config`

NFS config

- create folder for NFS share, example: `mkdir /nfsshare`
- edit `/etc/exports` to allow access, npr:  
`/nfsshare 10.10.7.0/24(rw, sync, no_root_squash)`
- setup nfs to start on boot and start it now:  
`systemctl enable nfs-server.service`  
`systemctl start nfs-server.service`

Test:

- On second VM create folder for remote mount: `mkdir /mnt/nfsclient`
- connect client to NFS server: `mount IPaddress:/nfsshare /mnt/nfsclient`

SAMBA config

- create folder for SAMBA-a share with permission for everybody:
  - `mkdir /smbshare`
  - `chmod 777 /smbshare`

- create user on linux system i SAMBA service and setup password for user:

- `useradd myuser`
- `smbpasswd -a myuser`

- setup `/etc/samba/smb.conf` with shared folder for just that user:

[MyShare]

`comment = My Shared folder`  
`path = /smbshare`  
`valid users = myuser`  
`writable = yes`

- Setup autostart and start the SAMBA server:

`systemctl enable smb.service`  
`systemctl start smb.service`  
`systemctl enable nmb.service`  
`systemctl start nmb.service`

Test:

- use Windows PC to access MyShare

In case of slow response remove all entries in `/etc/resolv.conf` as temp solution..