CSIS 3230 Computer Networking Principles
Group Lab Report 8 – Network File System (NFS)

Names:

1. Mount a directory

a) What is the df command used for?

b) Write the file system name and % in use for the entry in the output displayed by df that represents the complete Linux file system.

c) Describe the contents of /media before the DVD is inserted

d) What is the full path to the DVD contents?

e) What are the names of the file system and the mount point for the DVD?

☐ Able to list files in mydvd after mounting the device

2. Preparing the NFS server

What file system(s) are being exported?

3. Mount from another computer

a) Describe the entry (file system name and % in use) displayed by `df` for the remote DVD

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b) What is the port number of the external client's connection to NFS?

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c) Describe error message shown when a client whose IP is not listed in the exports attempts to mount the DVD?

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☐ Able to list files on the DVD from another computer after mounting the device

4. Sharing more files

a) ☐ Client can edit the shared files

☐ Client can create shared files

b) Describe what happens when two or more clients try to edit the same file and save changes.

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5. A closer look

a) What transport layer protocol used by NFS?

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What port number is used by the NFS server?

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b) Apply the filter `nfs contains` *someword* where *someword* is a word occurring in the shared file. This will be a reply packet containing the shared file. Expand the NFS payload.

What are the **Opcodes** of the operations performed to generate this reply?

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c) Expand the second opcode and then expand the **Data**. What is its length?

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Click on the **contents.** What is displayed in the right hand side column of the raw data bytes in the bottom panel?

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