**Week 4-PART 1: Case Projects Ch.10 and 11**

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**Case Project 10-2: Share files with multiple Oss**

Because of the number of machines needing to share files, I would recommend a client/server network utilizing the Network File System (NFS) protocol. NFS is a file sharing protocol over a network of computers that is compatible with all three operating systems Linux, Windows and Mac.

**Case Project 11-1: Discuss options for additional storage**

After making the appropriate backups, I would recommend the use of various disk utilities to help improve the space available to the users as well as improving overall performance of the machines. Firstly, Disk Cleanup can be used to programmatically remove unnecessary or unused files, like temporary internet files or cookies, from the system. Defragmenting a disk may also help to improve the overall performance of the read/write speeds of your disks in the way of moving sectors and blocks closer to one another based on the types of data. Finally, I’d highly recommend advising the users to stop downloading pictures of their nephew from last year’s Christmas party. No one cares about Travis.

**References**

Tomsho, G. (2017). *Guide to Operating Systems, 5th edition*. Boston MA: Cengage Learning.

Sandberg, R., Goldberg, D., Kleinman, S., Walsh, D., Lyon B. (1985). *Design and implementation of the Sun Network Filesystem.* Pennsylvania State University. <http://citeseerx.ist.psu.edu/viewdoc/summary?doi=10.1.1.14.473>