Homework Week #4

(20 points total)

Using what you’ve learned so far in the course, specifically during week 4, answer the following questions.

Question 1. (6 points) Explain (in your own words) the commands used to partition a new disk for use in Linux? The commands used to partition a new file are **fdisk**, which formats a disk, **mkfs**, which makes a file system, and **mount**, which assigns the drive a letter.

Question 2. (1.5 points) Select all of the following filesystems are supported in Linux:

a. fat32

1. **ntfs**
2. **vfatdos**
3. **ext4**
4. nxts

Question 3. (3 points) Explain the effect of issuing the following commands on **myfile.**

1. **chmod 600 myfile ->** Only the owner has permission just to read write
2. **chmod 755 myfile ->** The owner has all permissions while the group and others only have reading and executing
3. **chmod 777 myfile ->** Everyone has all permissions

Question 4. (3 points) List three (3) actions that occur when issuing the command **yum install** *packagename*? It will find the latest version of the package in the repository. Then it downloads and installs the package to a local system. Finally, the package information is stored to the local RPM database.

Question 5. (1.5 points) Which of the following are true about Logical Volume Partitions: (Choose all that apply.)

1. **More space can be added to a logical volume from a volume group, while the logical volume is still in use.**
2. More space can be added to a logical volume after the volume is dismounted.
3. **More physical volumes can be added to a volume group.**
4. **Physical volumes can have data moved from one to another.**
5. A reboot is required when shrinking a logical volume.

Question 6. (1 points) What command would you use to expand logical volume, **/dev/vgA/volumeA**, by 100Gb? **lvextend -L100G /dev/vgA/volumeA**

Question 7. (2 points) Execute the correct command to display the permissions on the /usr/bin/wall file. Based upon that output, which user owns the file? Which group owns the file? 

**Owner =** root **Group =** tty

Question 8. (2 points) Joe belongs to a group that has all permissions to file **office\_stuff**, but Joe, the file’s owner, has no permissions. What, if any, operations can Joe perform on the file? What command will grant the Joe all permissions on the file?

Joe is not able to perform any operations because he does not have any permissions. To give Joe full permission and to keep the permission the same for everyone else, the command **chmod 777 office\_stuff** would do as said before.