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| **Questions** | **Answers** | **Instructors Comments** |
| 1. What is the difference between mv and cp commands in Linux?   mv command is used to move files and directories from one place to another  mv file1 file2 = move file1 into file2  cp command is used to copy file and directories from one place to another  cp file2 folder3 = copy file file2 into folder3 |  |  |
| 1. What is a swap partition in Linux   Swap partition it’s the fact that the hard drive behaves like the RAM memory because this one it’s  running out of memory or space. |  |  |
| 1. What is the meaning of the first slash ( /)  in Linux   The first slash means Root |  |  |
| 1. What is a kernel in Linux?   A kernel it’s the main component of a Linux Operating system. It’s the core interface between a  computer’s hardware and it’s processes. |  |  |
| 1. What is a difference between file and directory in Linux   In Linux a file it is a document that stores data, information, settings or commands. A directory is  a folder that can contain or store files and other directories.  and directories. |  |  |
| 1. what is the difference between a regular user and root user in Linux   Regular user: dollar sign, cannot run some commands, the commands that he can run are  stored in the Bin directory  root user: / sign, able to run command that need privileges, their commands are stored in the Sbin directory. |  |  |
| 1. If you have a configuration file in Linux in which directory it can be found?   Etc directory |  |  |
| 1. Where is the passwd file located on Linux?   The Linux password file is stored in /etc directory |  |  |
| 1. Where is the shadow file located on Linux?   The shadow file is located at /etc/shadow in the etc directory |  |  |
| 1. Where is the hosts file located on Linux? |  |  |
| 1. What command can you user to modify a user account in Linux?   Usermod |  |  |
| 1. What are some commands that you can used to view the content of a file in Linux?   Cat, more, less and nl commands |  |  |
| 1. How do you know which Linux distribution or flavor you are using? |  |  |
| Group the following by family: ubuntu, alpine, debian, redhat, fedora, kali linux,centos, window, suse |  |  |
| What is the difference between open source and close source? |  |  |
| What command can you use to modify a user account in linux? |  |  |
| What is the difference between Unix and Linux? |  |  |
| What is the difference between Linux and Windows? |  |  |
| what is the client and a host? |  |  |
| What command can you use to delete a file in Linux? |  |  |
| if you are not able to delete a file on the server, what can be the problem? |  |  |
| if you are not able to login on the server through ssh, what can be the problem? |  |  |
| How can you check if the user account is locked? |  |  |
| How can you force a user to change his password at net login? |  |  |
| If giving the following, explain to a 10 years old child the meaning of this    /etc/devops/linux/commands/ |  |  |
| Write the command that will create a file called “learning” in the folder called “love” located in the “var” directory |  |  |
| What is Linux? Is it open-source or a close source? |  |  |
| How do you troubleshoot a slow web server or Linux server? |  |  |
| What are some directories that are in the root (/) files system? |  |  |
| How do you get help in linux? |  |  |
| What is the difference between append and redirect in Linux? |  |  |
| How do you check the memory used and available in Linux? |  |  |
| How do you check all running processes in Linux |  |  |
| Take a look at the following: Which one is a file and which one is a directory explain why?   * /home/john/linux * /home/john/linx/ |  |  |
| What is the difference between the GUI and CLI? |  |  |
| What is the purpose of the loopback address? |  |  |
| What is the difference between the 32 bit and 64 bit OS? |  |  |
| How do you move from one directory to another in Linux CLI? |  |  |
| What is a NIC and how can you troubleshoot a NIC? |  |  |
| How do you quit a file without saving it while using vim editor? |  |  |
| What is the difference between Redhat, CentOs and ubuntu? |  |  |
| What tools do you use to connect to a remote server? |  |  |
| What command do you use to connect to a remote server using ssh? |  |  |
| What is the meaning of the current directory? |  |  |
| What can you do to know your location in linux? |  |  |
| What is the command that allows you to view files and directory located in your current directory? |  |  |
| If I want to create a file called “devops” and a directory called “learning” what are the commands that you need to type to my terminal? |  |  |
| What is the command that take users to their home directory in linux |  |  |
| How to move one step and two steps back in linux |  |  |
| How to move to a previous directory in linux |  |  |
| In linux what is the command that can tell you the last time the server was rebooted and for how long it has been running |  |  |
| What is the meaning recursively? Explain it with the command “cp -r” |  |  |
| What is the meaning of parent directory? |  |  |
| In linux, what is the command to create the following directory in one command if none of them exist   “/devops/linx/learning/100k” |  |  |
| What is the maximum number of characters that can be used to name a file or directory in linux. |  |  |
| What do you know about the home directory? |  |  |
| What is a sudoers file in Linux? |  |  |
| What command do you used to edit a sudoers file in Linux and why? |  |  |
| What is the difference between the primary and the secondary group in Linux? |  |  |
| How can you check all ports that the server is listening to? |  |  |
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| If you are not able to connect to a server, what can be the issue? |  |  |
| If you are working at Google as a system administrator and your boss hired 5 system administrators, how can you give them root access on all the servers without them knowing the root password of those servers? |  |  |

**Log in to one of your Linux servers and do the following:**

a- Type a command to check the kernel version of your centos server.

b- Type a command to check the number of CPUs on your server.

c- Type a command to check the size of your total memory. What size is used? What size is available?

d- Type a command to check a root file system size. What size is used? What size is available?

On server 03, there is a directory or a file called **mysecretstuff. Do the following**

   1- Write the command to find the path of that file or directory

2- **mysecretstuff** is a file or directory and why?

3- Copy it to your home directory

  4-  display the content

    3- display the first 5 lines

    4- display the last 5 lines

    5- append  “I love Linux” at the end of the file

    6- edit that file and add as a first-line “I am learning Linux” at the beginning

**Create 4 groups called [your prefer anme]sysadmin, [your prefer anme]manager, [your prefer anme]shipping, and [your prefer anme]hr. Create a new user call [your prefer anme]john [your prefer anme]smith with the following:**

a- [your prefer anme]Jhon password should be "redhat"

b- [your prefer anme]Jhon should not have access to the shell, and his password should be locked

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e- [your prefer anme]Jhon should be a member of [your prefer anme]sysadmin, [your prefer anme]shipping, and [your prefer anme]manager group.

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[Student](https://devopseasylearning.atlassian.net/wiki/people/619c469b3618cd006f729062?ref=confluence)

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