

Linux Administration – Online Assessment

Information Technology Institute – Artificial Intelligence Track Intake 1

Full Name:

The exam duration is 100 minutes, please read the questions thoroughly and Good Luck!

- 1. Which is the core of the operating system?**
 - a) Shell**
 - b) Kernel**
 - c) Commands**
 - d) Script**

- 2. Applications communicate with kernel by using:**
 - a) System Calls**
 - b) C Programs**
 - c) Shell Script**
 - d) Shell**

- 3. How do you get help about the command “cp”?**
 - a) help cp**
 - b) man cp**
 - c) cd ?**
 - d) none of the mentioned**

- 4. Find / -name ‘*’ will**
 - a) List all files and directories recursively starting from /**
 - b) List a file named * in /**
 - c) List all files in / directory**
 - d) List all files and directories in / directory**

- 5. Which represents the user home directory**
 - a) /**
 - b) .**
 - c) ..**
 - d) ~**

6. If a file is removed in Unix using 'rm' then
 - a) The file can be recovered by a normal user
 - b) The file cannot be recovered by a user
 - c) The file can be fully recovered provided the system is not rebooted
 - d) The file will be moved to /lost+found directory and can be recovered only by administrator's intervention
7. The file permission 764 means:
 - a) Everyone can read, group can execute only and the owner can read and write
 - b) Everyone can read and write, but owner alone can execute
 - c) Everyone can read, group including owner can write, owner alone can execute
 - d) Everyone can read and write and execute
8. If user tries to remove (rm) a read-only file (444 permission), what will happen?
 - a) The file is removed successfully (and silently)
 - b) The rm command prompts for a confirmation, the command is successful upon confirmation
 - c) The rm command prompts for a confirmation, however the operation fails because of insufficient permissions
 - d) The rm command fails because of insufficient permissions
9. If a program executing in background attempts to read from STDIN
 - a) It is terminated
 - b) Its execution is suspended
 - c) STDIN is made available to it
 - d) None of the mentioned
10. How to run a process in the background?
 - a) &
 - b) *
 - c) ?
 - d) |
11. User's Primary Group id is listed in which file, at the time of creation of the user (On a standard Unix system)
 - a) /etc/passwd
 - b) /etc/groups
 - c) /etc/login
 - d) /etc/profile

12. A user can change the default log-in shell using
- a) chmod
 - b) chsh
 - c) rmsh
 - d) tchsh
13. Assuming the files fileA, fileB, fileAB, fileBC and fileABC, exist in a directory, which files match with the pattern file[ABC]?
- a) fileA, fileB and fileABC
 - b) fileABC
 - c) fileA and fileB
 - d) fileAB, fileBC and fileABC
14. Which one of the following statement is not true?
- a) vim editor is the improved version of vi editor
 - b) vi editor commands are not case sensitive
 - c) vi editor has two modes of operation: command mode and insert mode
 - d) vi stands for visual editor
15. The OS which is not based on Linux is:
- a) BSD
 - b) Ubuntu
 - c) CentOS
 - d) RedHat
16. mv command can be used for:
- a) Renaming a file
 - b) Move the file to different directory
 - c) Both 1 and 2
 - d) None of the above
17. What is the other name of new shell?
- a) Baby shell
 - b) Junior shell
 - c) Child shell
 - d) Assistant shell
18. Which shell is the default shell used on Linux systems?
- a) csh
 - b) bash
 - c) tcsh
 - d) rsh

19. Which key allows you to view the last command entered?
- a) down arrow
 - b) up arrow
 - c) left arrow
 - d) right arrow
20. The command is used to view a snapshot of the processes running on a system.
- a) ps
 - b) jobs
 - c) ls -l
 - d) du
21. Which utility is used to provide a total count of all lines in a file?
- a) nl
 - b) ln
 - c) wc
 - d) tr
22. Which utility is used to display the IP address of a network interface?
- a) ipconfig
 - b) ifconfig
 - c) hostname
 - d) netstat
23. Which command would be used to produce the following permissions? -rw-rw-r-- myfile
- a) chown myfile
 - b) chmod 661 myfile
 - c) chmod 331 myfile
 - d) chmod 664 myfile
24. Which command would you use to copy the /Documents directory and all subdirectories from the current system to the remote system newman?
- a) cp -R /Documents newman:/
 - b) scp -r /Documents root@newman:/
 - c) rcp -R /documents newman:/
 - d) scp -R root@newman:/ /Documents
25. Which command would create a file called mydirlisting that includes a detailed listing of all the files and directories located within your home directory?
- a) ls -alR \$HOME > mydirlisting
 - b) ls -d > mydirlisting
 - c) mydirlisting < ls -al \$HOME
 - d) ls -al | mydirlisting

26. Which utility is used to view the beginning of a file?
- a) tac
 - b) cat
 - c) head
 - d) top
27. Which environment variable would be used to specify the location of files that you wish to run without specifying an absolute path?
- a) HOME
 - b) PS1
 - c) PATH
 - d) TERM
28. Which of the following can be used to suspend a process running in the foreground?
- a) &
 - b) fg
 - c) bg
 - d) Ctrl+Z
29. Which command and options are used to delete a user's account and home directory?
- a) userdel -r
 - b) usermod -f
 - c) passwd -e
 - d) usermod -e
30. Which of the following would change the user's pwd to their home directory regardless of their current pwd? (Select all that apply.)
- a) cd
 - b) cd ..
 - c) cd ~
 - d) cd \$HOME
31. Which command allows you to view system resource usage in real time?
- a) nice
 - b) renice
 - c) ps -aux
 - d) top
32. Which command allows users to view their group memberships?
- a) groupadd
 - b) newgroup
 - c) groups
 - d) newgrp

33. Which command is used to rename the ourgroup file to mygroup?
- a) rn ourgroup mygroup
 - b) rn mygroup ourgroup
 - c) mv ourgroup mygroup
 - d) mv mygroup ourgroup
34. Which of the following shows the use of an absolute path?
- a) ls
 - b) ls -al
 - c) ls /home/angie
 - d) /bin/ls
35. Which of the following is a metacharacter used with regular expressions? (Select all that apply.)
- a) -
 - b) .
 - c) *
 - d) _
36. It is possible to run commands that are not located in a directory listed in the PATH if you know the full path and command name.
- a) True
 - b) False
37. Which key, when pressed once, is used to provide command completion at the command line?
- a) Tab
 - b) Esc
 - c) Enter
 - d) Ctrl
38. Applications communicate with kernel by using:
- a) System Calls
 - b) C Programs
 - c) Shell Script
 - d) Shell
39. Which of the following is considered as the super daemon in Unix?
- a) sysinit
 - b) init
 - c) inetd
 - d) proc
40. Unix is which kind of Operating System?
- a) Multi User
 - b) Multi Processes
 - c) Multi Tasking
 - d) All of the mentioned

41. Syntax of any Unix command is:
- a) command [options] [arguments].
 - b) command options [arguments].
 - c) command [options] [arguments].
 - d) command options arguments
42. Which command changes a file's group owner
- a) cgrp
 - b) chgrp
 - c) change
 - d) group
43. Which command is used to extract a column from a text file
- a) paste
 - b) get
 - c) cut
 - d) tar
44. Which command is used to display disk consumption of a specific directory
- a) du
 - b) ds
 - c) dd
 - d) dds
45. Which command creates an empty file if file does not exist?
- a) cat
 - b) touch
 - c) ed
 - d) read
46. Which option of rm command is used to remove a directory with all its subdirectories
- a) -b
 - b) -o
 - c) -p
 - d) -r
47. Which command is used to identify file type?
- a) Type
 - b) File
 - c) Finfo
 - d) Info
48. Which of these commands could you use to show one page of output at a time?
- a) less
 - b) sed
 - c) pause
 - d) grep

49. Which commands will give you information about how much disk space each file in the current directory uses?
- a) ls -l
 - b) ls -la
 - c) du
 - d) ls -a
50. Which of the following command output contains userid?
- a) ls
 - b) help
 - c) date
 - d) ls -l
51. Which command is used to display all the files including hidden files in your current and its subdirectories ?
- a) ls -aR
 - b) ls -a
 - c) ls -R
 - d) ls -l
52. Which of the following commands can be used to copy files across systems?
- a) ssh
 - b) telnet
 - c) rsh
 - d) scp
53. pwd command displays
- a) user password
 - b) password file content
 - c) present working directory
 - d) none of the mentioned
54. Which of the following commands can be used to change default permissions for files and directories at the time of creation
- a) Chmod
 - b) Chown
 - c) Umask
 - d) Chgrp
55. Which of the following commands will allow the user to search contents of a file for a particular pattern
- a) touch
 - b) grep
 - c) find
 - d) ls

56. The command syntax to display the file 'sample.txt' one page at a time is
- a) man sample.txt>more
 - b) cat sample.txt<more
 - c) cat sample.txt | more
 - d) none of the mentioned
57. To open a file file1 with cursor at line number 4
- a) vi +num file1
 - b) vi +set num file1
 - c) vi + "set num" file1
 - d) vi +/se nu file1
58. Which of the following statement is true?
- a) The cp command will preserve the meta data of the file
 - b) The sort command by default sorts in the numeric order
 - c) The mv command will preserve the meta data of the file
 - d) The command ps will display the filesystem usage
59. What UNIX command is used to update the modification time of a file?
- a) time
 - b) modify
 - c) cat
 - d) touch
60. Which command is used to close the vi editor?
- a) q
 - b) wq
 - c) both q and wq
 - d) none of the mentioned
61. The range of nice values is:
- a) -20 to 19
 - b) 20 to 0
 - c) -19 to 20
 - d) 0 to 20
62. Executing the 'cd ..' command when at the root level causes
- a) Error message indicating the user can't access beyond the root level
 - b) Behavior is unix-flavor dependent
 - c) Results in changing to the 'home' directory
 - d) Nothing happens

63. A user executes the following command successfully: `$ chmod +x file1.txt`
Which of the following is true of the output of this command?
- a) The command results in adding execute permission to the user who ran this command
 - b) The command results in adding execute permission for the owner of the file
 - c) The command results in an error since the file is not an executable file
 - d) The command results in adding execute permission for all users (i.e., user, group & others)
64. Which command is used to bring the background process to foreground?
- a) `bg`
 - b) `fg`
 - c) `background`
 - d) `foreground`
65. Which command can be executed by a user who is already logged into the system, in order to change to the root user? (type the command without any parameters)
- a) `su`
 - b) `root`
 - c) `chroot`
 - d) `user`
66. Given the command: `$ chmod o-w datafile`
- a) sets write permission to everyone for datafile
 - b) sets write permission to others for datafile
 - c) clears write permission to everyone for datafile
 - d) clears write permission to others for datafile
67. Process information in the current shell can be obtained by using
- a) `kill`
 - b) `bg`
 - c) `fg`
 - d) `ps`
68. User id 0 is
- a) An invalid user id
 - b) The id of the root user
 - c) The id of a user when the user's account is deleted
 - d) None of the mentioned
69. Which of the following command can be used to change the user password?
- a) user can't change the password
 - b) `passwd`
 - c) `passd`
 - d) `pwd`

70. Which of the following files need to be referred for user's secondary group?
- a) /etc/passwd
 - b) /etc/shadow
 - c) /etc/group
 - d) /etc/profile
71. What is /root?
- a) root filesystem
 - b) home directory of the root user
 - c) the directory which contains all the directories of the filesystem
 - d) none of the mentioned
72. The contents of root filesystem is responsible to
- a) boot the system
 - b) recover the system
 - c) repair the system
 - d) All of the mentioned
73. Obtaining of the PID can be done by the utility
- a) pgrep
 - b) pidof
 - c) ps
 - d) All of the mentioned
74. Where do the users arrive after entering exit in Linux system?
- a) Login screen
 - b) Internet
 - c) Logout screen
 - d) Login prompt
75. Which of the following is called as the piping symbol?
- a) _
 - b) |
 - c) ~
 - d) !
76. Multiple commands can be entered on the same command line when separated by which character?
- a) .
 - b) ;
 - c) ,
 - d) \

77. Which of the following represents read, write, and execute permissions for owner and read and execute for all others?
- a) 755
 - b) 022
 - c) 733
 - d) 557
78. Which of the following would be used to run a script called mozilla_update as a background process?
- a) bg mozilla_update
 - b) mozilla_update&
 - c) `mozilla_process`
 - d) mozilla_process -bg
79. Which command would be used to view a description of the tar utility including the options available for use?
- a) more tar
 - b) grep tar
 - c) man tar
 - d) help tar
80. Which command searches the string in file opened in vi editor?
- a) / or ?
 - b) f or F
 - c) t or T
 - d) None of the mentioned
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What would you do in the following situations:

- 1) The time zone and clock on your machine is incorrect. How to set them to the correct values?
- 2) You have been told by your colleagues at your company that a list of unknown users have been on the system. How to list those users?
- 3) You would like to connect to a remote host via the SSH command, and the command is not working. Most probably it is a daemon related issue, what to do then?
- 4) Your system keeps hanging. What might be the problem and how to check that?

T h a n k Y o u

