Midterm Review Spring_2025

CSC651 System Administration

Q:1 How To check Memory stats and CPU stats?

Q:2 What are the default ports used for SMTP, DNS, FTP, DHCP, SSH?

25, 53, 20-21, 67-68, 22

Q:3 What is the difference between Linux and UNIX?

Q:4 What is your favorite shell and why?

Q**:5 What are filenames that are preceded by a dot?**

Q:6 What is the advantage of open source?

Q7: _____ command is used to count the total number of lines, words and character in a file?

- **countw**
- **wcount**
- **wc**
- **count p**
- **None of the above**

Q8: _____ command is used to remove the directory?

- **rdir**
- **remove**
- **rd**
- **rmdir**
- **None of the above**

Q9: _____ command is used to remove files?

- **dm**
- **rm**
- **delete**

- **erase**
- **None of the above**

Q10: _____ hardware architectures are not supported by Red Hat?

- **SPARC**
- **IBM-compatible**
- **Macintosh**
- **Alpha**
- **None of the above**

Q11: http://127.0.0.1 is the address of

- **ISP (Internet Service Provider)**
- **Own Machine**
- **windows**
- **Linux**
- **None of the above**

Q12: Macintosh is a variant of

- **Linux**
- **Windows**
- **Unix**
- **Apple**
- **Steve Jobs**

Q13: Which of the following is not a communication command?

- **grep**
- **mail**
- **mesg**
- **write**
- **None of the above**

Q14: What command is used to add printing jobs to the queue?

- **lpd**
- **lpr**
- **lpq**
- **lpc**
- **None of the above**

Q15: What does GNU stands for?

- **Gnu's not Unix**

- **Geek Needed Unix**
- **General Unix**
- **General Unix**
- **None of the Above**

Q16: _____ command is used to list contents of directories?

- **tar**
- **dir**
- **lp**
- **ls**
- **None of the above**

Q17: Which of the following is a command in Linux?

- **w**
- **x**
- **t**
- **All of the Above**
- **None of the Above**

Q18: _____ command is used to remove jobs from the print queue?

- **lpq**
- **lpr**
- **lprm**
- **lpc**
- **None of the above**

Q19: _____ makes it possible to run Windows and Linux Kernel simultaneously in parallel on the same machine.

- **Virtualbox**
- **Vmware**
- **Cooperative Linux (coLinux)**
- **LAN**
- **None of the Above**

Q20. _____ is the world's largest non-commercial Linux distribution

- **Debian**
- **Ubuntu**
- **Fedora**
- **Mint**
- **Slackware**

Q21. Which Linux command can be used to create a new user account?

    A. newuser
    B. useradd
    C. mkuser
    D. usercfg

Q22. Which Linux command(s) can be used to modify the list of groups a user belongs to?

    A. usermod
    B. groupadd
    C. groups
    D. gpasswd
    E. chgrp
    F. userinfo

Q23. Which of the following Linux commands can be used to create backups of filesystems and directories?

    A. backup
    B. gzip
    C. tar
    D. archive

Q24. Assume you are maintaining a Debian-based Linux system. You wish to install the application 'someapp'. Which of the following command lines would be the most common way to install the application?

    A. dselect someapp
    B. apt-setup someapp
    C. dpkg --install someapp
    D. apt-get install someapp

Q25. Which of the following TCP/IP network utilities is the BEST tool to use in identifying bottlenecks between remote machines on the network? Specifically, assume a goal in this debugging is to determine the paths travelled in the forwarding of network packets, and identify intermediate routers that may be dropping packets.

    A. route
    B. netstat
    C. ping
    D. tracert

Q26. What is Linux Kernel?

Q27. What is Shell?

Q28. What is BASH stands for?

Q29. What the command Clear does?

Q30. How do you check the number of processes running?

Q31. What is Linux LILO?

Q32. What are the advantages of open source like Linux?

Q33. What SAR command gives you?

Q34. Explain the function of a root user.

Q35. What is CLI? What is GUI?

Q36. What are the Directory and File permission available in Linux?

Q37. How do you change permission in Linux?

Q38. What is Symbolic links?

Shortcuts

Q39. What is patching?

Q40. What is DNS? What does it do?

Q41. What is UMASK?

User File creation mask.

Q42. Where the kernel modules are located?

/lib/modules/kernel-version/ directory

Q43. How to share a directory using NFS?

Edit config file /etc/exportfs

Q44. What is network bonding?

Network bonding is the aggregation of multiple LAN cards into a single bonded interface, also known as NIC teaming

Q45. How to check default route and routing table?

Using the commands netstat -nr and route -n we can see the default route and routing table

Q46. How to check which ports are listening in my linux server?

Netstat listen and lsof -i commands.