71 Linux admin interview questions (and answers)

Questions

- 1. Can you explain the difference between a hard link and a symbolic link in Linux?
- 2. How would you troubleshoot a server that's running out of disk space?
- 3. What is the purpose of the /etc/fstab file and how would you modify it?
- 4. Describe the process of setting up a LAMP stack on a fresh Linux installation.
- 5. How do you manage and monitor system logs in Linux?
- 6. Explain the concept of file permissions in Linux and how to modify them.
- 7. What steps would you take to secure a Linux server after a fresh installation?
- 8. How would you schedule a recurring task in Linux?
- 9. Can you describe the boot process of a Linux system?
- 10. What tools would you use to diagnose network connectivity issues on a Linux server?
- 11. Can you explain the purpose of the /var directory in Linux?
- 12. What is the significance of the 'sudo' command in Linux?
- 13. How do you check the current running processes in a Linux system?
- 14. What is a package manager and why is it important in Linux?
- 15. Can you explain what a daemon is in Linux?
- 16. How would you find a specific text string in a large log file?
- 17. What is the purpose of the 'cron' command in Linux?
- 18. How would you change the hostname of a Linux system?
- 20. Can you describe the process of creating and managing a DAID array in Linux
- 20. Can you describe the process of creating and managing a RAID array in Linux?
- 21. What are the steps to upgrade the kernel on a Linux system?

19. How do you set up and configure a firewall on a Linux system?

- 22. How would you manage user accounts and permissions in an enterprise Linux environment?
- 23. Explain how you would monitor and optimize system performance on a Linux server.
- on Linux?

 25. How do you handle software dependencies and conflicts when installing packages on

24. Can you describe the process of creating and managing LVM (Logical Volume Manager)

- Linux?
- 26. What is SELinux and how do you configure it?

infrastructure?

change it?

you take?

server?

might adjust kernel parameters.

- 27. Describe how you would implement and manage disk quotas in Linux.
- 28. How do you configure and manage network interfaces on a Linux server?
- 29. What are some common tools for performing backups on Linux, and how do you use them?
- 30. How would you set up and configure a DNS server on Linux?
- 31. Can you explain the process of setting up and managing SSH keys for secure access?
- 32. What steps would you take to recover a corrupted Linux system?
- 33. How do you automate repetitive administrative tasks in Linux using scripting?
- 34. How would you implement a high-availability solution for a critical service running on Linux?35. Explain the concept of Linux namespaces and how they relate to containerization.
- 36. Describe a complex issue you've encountered with system performance and how you
- diagnosed and resolved it.

 37. How would you approach capacity planning for a rapidly growing Linux-based
- 38. Explain the concept of Linux kernel tuning and provide examples of when and how you
- 39. How would you implement and manage a centralized logging solution for a distributed Linux environment?
- 40. Describe how you would implement a disaster recovery plan for a critical Linux-based application.
- 41. How would you identify and terminate a process that's consuming excessive CPU resources?
- 42. Explain the difference between a zombie process and an orphan process. How would you deal with each?
- 44. How do you view real-time process statistics in Linux?

43. What is the significance of the 'nice' value in process scheduling? How would you

- 45. Can you explain the concept of process forking and its importance in Linux?46. What tools would you use to analyze process memory usage?
- 47. How would you troubleshoot a process that's hanging or unresponsive?
- 48. Explain the difference between threads and processes in Linux.
 49. What is a process control group (cgroup) and how is it used?
- 50. How would you set resource limits for a specific user or process?
- 51. Can you describe the purpose and usage of the 'strace' command?
- 52. How do you prioritize processes to ensure critical services get more system resources?53. What are some best practices for securing SSH access on a Linux server?
- 54. Can you explain the role of iptables in Linux security and how to configure it?
- 55. What steps would you take to secure sensitive files and directories on a Linux system?56. How do you monitor for unauthorized access or suspicious activity on a Linux server?
- 57. What is the importance of regular software updates and patch management in maintaining Linux security?

58. Describe how you would use tools like Fail2ban to enhance security on a Linux server.

- 59. What is the principle of least privilege, and how would you implement it in a Linux
- environment?
 60. Explain the difference between symmetric and asymmetric encryption. How would you
- use them in Linux?
- 61. How can you use SELinux to enhance the security of a Linux system?

62. What are some common vulnerabilities in Linux systems, and how can they be

- mitigated?
 63. Describe a time when you had to recover a Linux server after a crash. What steps did
- 64. How would you handle a situation where a critical service on a Linux server suddenly stops working?
- 65. If a user reports that their permissions on a shared directory have changed
- unexpectedly, how would you investigate and resolve the issue?

 66. What actions would you take if you discovered unauthorized access attempts on a Linux
- 67. How would you manage and mitigate a sudden spike in load on a critical Linux server?
- 68. Explain how you would handle a situation where the Linux system is experiencing network latency issues. What tools and steps would you use?