

# 66 Linux DevOps Interview Questions to Ask Your Candidates

## Questions

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1. Can you explain the difference between a hard link and a soft link in Linux?
2. How would you check the disk usage of a specific directory in Linux?
3. What are some common ways to troubleshoot a Linux server that won't boot?
4. How can you determine which process is using a specific port on a Linux system?
5. What is the purpose of the 'chmod' command, and how do you use it?
6. Describe how you would manage user permissions in a Linux environment.
7. What tools or commands would you use to monitor system performance in Linux?
8. Can you explain the function of the 'cron' daemon in Linux?
9. How do you create a shell script, and what are some common use cases?
10. What steps would you take to secure a Linux server?
11. Can you explain the purpose of the '/etc' directory in Linux?
12. How would you check the current running processes on a Linux system?
13. What is the significance of the root user in Linux, and why is it generally advised to avoid using it for routine tasks?
14. How would you go about troubleshooting a slow-performing Linux server?
15. Explain the concept of file ownership in Linux and how it relates to permissions.
16. What is a daemon in Linux, and can you give an example of a common daemon?
17. How would you create a backup of a directory in Linux, and why is it important to do so regularly?
18. How would you handle package management in a Linux environment using tools like apt or yum?
19. Describe the process of setting up passwordless SSH between two Linux systems.
20. What steps would you take to diagnose and resolve a network connectivity issue on a Linux server?
21. How would you automate repetitive tasks in Linux using scripting languages like Bash or Python?
22. Can you explain how to use 'rsync' for efficient data transfer and synchronization?
23. What are the steps to configure and manage a firewall on a Linux system using tools like iptables or firewalld?
24. Describe the process of setting up and managing a Docker container on a Linux server.
25. How would you approach troubleshooting a kernel panic issue on a Linux system?
26. What methods would you use to monitor and maintain system logs in Linux?
27. Explain how you would manage software dependencies and environments using tools like Ansible or Puppet.
28. Describe how you would configure a RAID array in Linux and the benefits it provides.
29. How do you ensure high availability and disaster recovery for a critical application running on a Linux server?
30. What steps would you take to optimize a Linux server for better performance?
31. Can you explain the process of compiling and installing software from source on a Linux system?
32. How would you secure a Linux-based web server to prevent common vulnerabilities and attacks?
33. How would you approach capacity planning for a rapidly growing microservices architecture?
34. Describe a situation where you had to debug a complex production issue. What was your approach?
35. How would you design a highly available and fault-tolerant system using Linux and open-source tools?
36. Explain the concept of 'infrastructure as code' and how you would implement it in a Linux environment.
37. How would you approach implementing a zero-downtime deployment strategy for a critical application?
38. Describe how you would set up and manage a centralized logging system for a distributed Linux environment.
39. How would you approach automating the onboarding process for new Linux servers in your infrastructure?
40. Explain how you would implement a comprehensive backup and disaster recovery strategy for critical Linux systems and data.
41. How would you manage system updates and patches on a Linux server?
42. Can you describe the process of setting up a Linux server from scratch?
43. How do you handle disk partitioning and file system management in Linux?
44. What are the steps to configure network interfaces and IP addresses on a Linux system?
45. How would you set up and manage a Linux-based mail server?
46. Can you explain how you handle system backups and restoration in Linux?
47. How do you manage and rotate log files in Linux?
48. What methods do you use for user account management and authentication in Linux?
49. How would you secure SSH access on a Linux server?
50. What tools do you use for performance tuning and system optimization in Linux?
51. Can you describe how you would handle kernel updates and module management in Linux?
52. How do you automate system maintenance tasks in Linux?
53. Can you explain how to integrate a Linux server with AWS services?
54. Describe the process of setting up automated backups between a Linux server and a cloud storage service, like Google Cloud Storage.
55. How would you handle the security aspects of connecting a Linux server to a cloud environment?
56. What steps would you take to monitor the performance of a Linux server deployed in a cloud infrastructure?
57. How do you use Terraform for provisioning and managing cloud resources in a Linux environment?
58. Can you describe a scenario where you used Kubernetes to manage containerized applications on a Linux system?
59. What tools do you prefer for continuous integration and continuous deployment (CI/CD) in a Linux and cloud-based setup?
60. How would you implement load balancing for a Linux server deployed in the cloud?
61. Explain the process of migrating an on-premises Linux application to a cloud platform like Azure or AWS.
62. What are the best practices for configuring network security groups and firewalls for Linux servers in the cloud?
63. How do you ensure compliance and data privacy for cloud-hosted Linux servers?
64. Can you describe your experience with using Ansible for cloud automation in a Linux environment?
65. How do you manage and optimize cloud costs for Linux-based applications?