71 Network Technician interview questions to ask candidates (with answers)

Questions

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11. Can you describe the function of DNS and how it impacts network connectivity?

12. What is a ping test, and how can it be used in troubleshooting?

13. Explain the role of a network topology and name some common types.

14. How would you handle a situation where a device cannot connect to the network?

15. What is the significance of MTU in a network, and how does it affect performance?

16. Can you explain what NAT is and how it works in a network environment?

17. What are some common network security protocols, and why are they important?

18. How would you differentiate between a public and a private IP address?

19. What is the function of a proxy server in a network?

20. Can you explain the difference between a static IP address and a dynamic IP address?

21. Can you explain how you would approach identifying and resolving IP conflicts in a network?

22. Describe how you would manage network bandwidth during peak usage times.

23. How would you handle a situation where a new device cannot connect to the network despite correct credentials?

24. What strategies do you use to ensure network security against unauthorized access?

25. How do you prioritize tasks when managing multiple network issues simultaneously?

26. What do you consider when planning for network expansion?

27. Can you explain the process of monitoring network performance and why it's important?

28. Describe a time when you had to implement a new network technology. How did you ensure a smooth transition?

29. How do you keep track of network configurations and changes?

30. Explain how you would approach troubleshooting a connectivity issue in an enterprise environment.

31. Can you explain the OSI model and its layers?

32. What is ARP and how does it function in a network?

33. Describe the difference between HTTP and HTTPS protocols.

34. How does the SMTP protocol work for email transmission?

35. What is the purpose of the FTP protocol?

36. Explain the function of ICMP in network diagnostics.

37. How does SSL/TLS contribute to secure communication?

38. What is the role of BGP in internet routing?

39. Can you describe how the SIP protocol is used in VoIP?

40. What is the difference between IPv4 and IPv6?

41. How does SNMP assist in network management?

42. Explain the purpose and function of the OSPF routing protocol.

43. What is the role of RADIUS in network security?

44. How does the NTP protocol ensure time synchronization across a network?

45. What steps would you take to diagnose a network latency issue?

46. How would you approach troubleshooting a network printer that suddenly stops working?

47. If a network device shows intermittent connectivity, what troubleshooting steps would you take?

48. How do you handle a situation where a user's device cannot access a specific network resource?

49. Describe how you would investigate a network loop issue.

50. What approach would you take to troubleshoot DNS resolution issues?

51. How would you troubleshoot a situation where network devices are experiencing frequent disconnections?

52. What steps would you take to diagnose and fix a slow network performance problem?

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