

Top 50 interview questions on Computer Networks

1. What is a computer network?
2. What is the difference between a LAN and a WAN?
3. What are the layers of the OSI model?
4. What is TCP/IP and how does it relate to the OSI model?
5. What is the purpose of the Network layer in the OSI model?
6. Explain the concept of subnetting.
7. What is ARP and how does it work?
8. What is a MAC address?
9. What is the difference between a hub, a switch, and a router?
10. What is the purpose of DNS in a network?
11. What is DHCP and how does it work?
12. What is the difference between a static IP address and a dynamic IP address?
13. Explain the concept of port forwarding.
14. What is NAT and how does it work?
15. What is a firewall and what is its purpose?
16. What is the difference between symmetric and asymmetric encryption?
17. What is a VPN and how does it work?
18. What is a VLAN and why is it used?
19. What is the difference between half-duplex and full-duplex communication?
20. What is a subnet mask?
21. What is a default gateway?
22. What is the purpose of ICMP in networking?
23. What is a packet and what information does it contain?
24. What is the purpose of a MAC table in a switch?
25. What is a broadcast domain?
26. Explain the concept of Quality of Service (QoS).
27. What is a proxy server and what is its purpose?
28. What is a DNS cache and why is it used?
29. What is the difference between TCP and UDP?
30. What is the purpose of a loopback address?
31. Explain the concept of VLAN trunking
32. What is the difference between a physical address and a logical address?
33. What is a network protocol and give examples.
34. What is a collision domain?
35. What is a network topography and what are the different types?
36. What is a DMZ and why is it used in network security?
37. What is the purpose of a MAC filter in a wireless network?
38. What is a MAN and how does it differ from a LAN and WAN?
39. What is the purpose of a gateway in a network?
40. Explain the concept of multiplexing in networking.
41. What is a proxy ARP and when is it used?
42. What is a routing table and how does it work?
43. What is the purpose of a subnet in a network?
44. What is the difference between a hub and a switch?

45. What is the purpose of a DNS server?
46. Explain the concept of network congestion.
47. What is a broadcast address?
48. What is the difference between a static route and a dynamic route?
49. What is the purpose of a network interface card (NIC)?
50. What is the difference between a private IP address and a public IP address?

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