

Commonly asked Network Engineer Interview Questions



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General Networking:

1. Difference between ARP and RARP
2. DNS , DHCP, DNS SEC Kingkong Page 2 29/01/2014
3. What is RFC 1918?
4. What is DHCP relay Agent?
5. What is Proxy ARP?
6. What is ICMP?
7. What is anonymous FTP and why would you use it?
8. What is a pseudo tty?
9. What is REX?
10. What does the Mount protocol do ?
11. What is External Data Representation?
12. What is the Network Time Protocol?
13. What is a DNS resource record?
14. What protocol is used by DNS name servers?
15. If your network card got an IP address automatically in the range of 169.254.0.0 to 169.254.255.255 then what does this means?
16. What is Kerberos?
17. What is a Multi-homed Host?
18. What is virtual channel?
19. What is logical link control?
20. Why should you care about the OSI Reference Model?
21. What is MAU?
22. What is the difference between TFTP and FTP application layer protocols?
23. What is Bandwidth?
24. Difference between bit rate and baud rate?
25. What is attenuation?
26. What is cladding?
27. What is RAID?
28. What is NETBIOS and NETBEUI?
29. What is redirector?
30. What is fragmentation of a packet ?
31. What is MTU of a link ?
32. Name any field of IP header that can prevent a packet to loop infinitely?
33. Under what situations a packet can go into infinite loop in a network ?
34. Describe a 3-way TCP/IP Handshake.
35. What is the difference between layer 2 and layer 3 in the OSI model?
36. What are the data units at different layers of the TCP / IP protocol suite?
37. What is the difference between TCP and UDP?
38. How do you distinguish a DNS problem from a network problem?
39. What are a runt, Giant, and collision?
40. What is a VPN?

41. Describe a TCP connection sequence
42. Describe the steps between client and DHCP server when it ask for ip address from it.
43. What is Mail Gateway?
44. What is wide-mouth frog?
45. What are Digrams and Trigrams?
46. What is silly window syndrome?
47. What is region?
48. What is NVT (Network Virtual Terminal)?
49. What is the range of addresses in the classes of internet addresses?
50. What is the minimum and maximum length of the header in the TCP segment and IP datagram?
51. What is Project 802?
52. What is Bandwidth?
53. What is traffic shaping?
54. What is packet filter?
55. What is MAU?
56. Difference between bit rate and baud rate?
57. Name any field of IP header that can prevent a packet to loop infinitely ?
58. Under what situations a packet can go into infinite loop in a network ?
59. What is the meaning of FTP and TFTP application layer protocols?

Subnetting Questions:

1. Subnetting (Examples)
2. What is Supernetting
3. What is wild card mask

Cisco Hardware Related Questions:

1. Cisco Boot process?
2. Cisco 3750 Switch is not showing routing table?
3. What is config register and what you do with it in router?

Routing Protocols Questions:

1. What is the Administrative distance of OSPF, RIP and other routing protocols?
2. What is a default route?
3. Split horizon in RIP?
4. How OSPF calculate cost?
5. What algorithm is used by OSPF if equal cost routes exist
6. If the hello timers of EIGRP are different between two routers then will it form a neighbor adjacency?
7. Difference between OSPF LSA type 4 and 5 ?
8. What is BGP synchronization Rule?
9. IP SLA , where it is needed ?
10. Difference between Confederation and Route Reflector ?

11. If the hello timers of EIGRP are different between two routers then will it form a neighbor adjacency?
12. Difference between OSPF LSA type 4 and 5 ?
13. What is BGP synchronization Rule?
14. Does iBGP change routes attribute?
15. What is the HELLO protocol used for?
16. What is RIP (Routing Information Protocol)?
17. What is SLIP (Serial Line Interface Protocol)?
18. What is OSPF?
19. What is BGP (Border Gateway Protocol)?
20. What is autonomous system?
21. What is EGP (Exterior Gateway Protocol)?
22. What is IGP (Interior Gateway Protocol)?
23. What is multicast routing?
24. In EIGRP, what is a Stuck in Active route?
25. What are the advantages and disadvantages of the three types of routing tables?
26. What is source route?
27. What is the difference between NAT and PAT
28. Know about IPV6 and how it is written and how many bits
29. What is HSRP, GLBP And VRRP and what are there advantages and disadvantages?
30. What is SLIP (Serial Line Interface Protocol)?
31. What is the difference between routable and non- routable protocols?

Access List Questions:

1. What is ACL, ACE, What are numbers for Standard and extended ACL?
2. Types of ACL and difference between ACL and prefix list?

Switching and Local Area Network (LAN) Questions:

1. What is a broadcast storm?
2. Spanning tree loops and avoidance?
3. Know about MAC address
4. What is Ether channel and what are the protocols used in them?
5. what is port security on Cisco Switch and why we use it?
6. What is Vlan ?
7. What purpose of private Vlan ?
8. What is ROOT guard and BPDU guard in STP ?
9. What is the difference between layer 2 and layer 3 in the OSI model?
10. What is the difference between a hub, switch, and router?
11. What is a VLAN?
12. Know about MAC address
13. Explain 802.1W
14. What are 10Base2, 10Base5 and 10BaseT Ethernet LANs?
15. What is difference between circuit Switching And Packet Switching ?
16. What is the different between 802.1q and ISL?
17. Explain what is an Ether-Channel?

18. What do you need to do to setup a VTP domain?
19. What is a root bridge and why do you need one?

Wide Area Network Questions (WAN):

1. How does Frame Relay Work
2. What is ATM technology
3. How does the DSL work
4. Do you know about MPLS
5. How does MPLS work
6. What is VRF
7. What is MPLS VPN
8. What is difference between Route Distinguisher and Route Target.
9. What is VPLS

Network Monitoring Questions:

1. SMTP, SNMP
2. What is SNMP and what is the difference between SNMP v2 and V 3 ?
3. What is Net flow and EEM?
4. What is a Management Information Base (MIB)

Troubleshooting Network Issues:

1. What steps do you take when troubleshooting a networking issue?
2. What are the first things you check when a user is experiencing problems accessing the network
3. What is Service Level Agreement?
4. Which three commands can be used to check LAN connectivity problems on a router?
5. You are unsuccessful in telnetting into a remote device. What could the problem be?
6. What questions would you ask to help isolate a user's problem?
7. Which are the tools you carry usually for troubleshooting?
8. Which are the tools you carry usually for troubleshooting?
9. How do you distinguish a DNS problem from a network problem?

Network Security And Design Questions:

1. Tell us something about Cisco PPDIIO Lifecycle approach?
2. What are typical virus sources and how do you prevent virus attacks?
3. What are some of the guidelines you would recommend for implementing security at the user level?
4. What is the difference between these three: encryption, encoding and hashing?
5. What are typical virus sources and how do you prevent virus attacks?
6. Describe what a stateful firewall is?

Questions about yourself:

1. How would you say you are able to handle stress?
2. What do you see yourself doing two or three years from now?
3. How do you learn new technologies?
4. How do you prioritize tasks and manage your time?
5. What are some ways you've improved network performance in the past?
6. Can you explain about the biggest error that you have made as a network administrator?
7. How much experience do you have working with the development team as well as the networking team?
8. Describe how you've met the challenges associated with IPv6
9. Can you give me a list of priorities concerning network support?

Regards
Urdu IT Academy Team