95 IBM AIX interview questions to hire top engineers

Questions

1. What is AIX and why do companies use it?

2. Can you explain the difference between AIX and Linux in simple terms?

3. What are some basic AIX commands you use every day?

4. How do you check the current version of AIX installed on a server?

5. What is the purpose of the System Management Interface Tool (SMIT) in AIX?

6. How do you create a new user account in AIX?

7. What are the different runlevels in AIX, and what does each signify?

8. Explain how you would manage file permissions in AIX. Why are they important?

9. What is a logical volume in AIX, and how is it different from a physical volume?

10. How would you monitor CPU utilization on an AIX server?

11. Describe how paging space is used in AIX. What happens if you run out?

12. What is the global environment registry and how do you interact with it?

13. Explain the purpose of the 'lsof' command and give a practical example.

14. How would you schedule a job to run automatically in AIX?

15. What is NIM in AIX, and what is it used for?

16. Describe how you would troubleshoot a slow-performing AIX application.

17. How do you take a backup of an AIX system? What tools can you use?

18. What are the different types of filesystems available in AIX, and when would you choose one over another?

19. Can you explain how to configure network interfaces in AIX?

20. What is the role of the Object Data Manager (ODM) in AIX?

21. How would you determine the amount of free disk space on an AIX server?

22. Explain the purpose of errpt and how you would use it to diagnose system problems.

23. How would you troubleshoot a slow network performance issue on an AIX server?

24. Explain the purpose and usage of the 'lsof' command in AIX for identifying open files.

25. Describe the steps involved in creating and managing logical volumes using LVM in AIX.

26. What are the different types of file systems supported in AIX, and how do you choose the appropriate one?

27. How do you monitor CPU utilization on an AIX system, and what tools would you use?

28. Explain the concept of 'paging space' in AIX and how it affects system performance.

29. How would you configure and manage user accounts and groups in AIX, including setting permissions?

30. Describe the process of installing and configuring software packages using 'installp' and 'rpm' in AIX.

31. What are the different runlevels in AIX, and how do you change the system's runlevel?

32. How do you back up and restore an AIX system, including the operating system and data?

33. Explain the purpose of the 'errpt' command and how you would use it to analyze system errors.

34. Describe the steps involved in configuring and managing network interfaces in AIX.

35. How do you troubleshoot a boot issue on an AIX server?

36. Explain the purpose and usage of the 'cron' daemon in AIX for scheduling tasks.

37. How would you configure and manage printers in AIX?

38. Describe the process of upgrading the AIX operating system to a newer version.

39. What are the different types of memory in AIX, and how do you monitor memory usage?

40. How do you manage disk quotas for users and groups in AIX?

41. Explain the purpose of the 'security' command and how you would use it to enhance system security.

42. How would you configure and manage SSH access to an AIX server?

43. Describe the steps involved in creating and managing file system snapshots in AIX.

44. What are the different types of network protocols supported in AIX, and how do you configure them?

45. How do you monitor disk I/O performance on an AIX system, and what tools would you use?

46. Explain the concept of 'virtualization' in AIX and how it is implemented using PowerVM.

47. How would you configure and manage system logging in AIX?

48. Describe the process of recovering from a rootvg failure in AIX.

49. How would you diagnose and resolve a performance bottleneck related to virtual memory in AIX?

50. Explain the process of Live Partition Mobility (LPM) and discuss its prerequisites and limitations.

51. Describe how you would configure and manage Workload Partitions (WPARs) in AIX, including resource allocation and security considerations.

52. What are the key differences between AIX's Volume Group mirroring and other forms of data replication, and when would you choose one over the other?

53. Explain the role of the AIX Object Data Manager (ODM) and how you would use it to troubleshoot device driver issues.

54. How does AIX handle memory management, and what tools can you use to monitor and optimize memory usage?

55. Describe the process of configuring and troubleshooting NIM (Network Installation Management) server and client.

56. What are the different types of AIX security models, and how do you implement role-based access control (RBAC)?

57. Explain how you would implement and manage a high-availability (HA) cluster using PowerHA SystemMirror in AIX.

58. Discuss the steps involved in performing a disaster recovery (DR) exercise in an AIX environment.

59. How would you diagnose and resolve issues related to network connectivity, such as TCP/IP configuration or DNS resolution, in AIX?

60. Explain the purpose and usage of the AIX trace facility (trace command) for debugging system issues.

61. Describe how you would configure and manage AIX's auditing subsystem to track security-related events.

62. What are the key features of AIX's file system journaling, and how does it enhance data integrity?

63. Explain how you would use the AIX Performance Toolbox to identify and resolve performance bottlenecks.

64. Discuss the different methods of backing up and restoring AIX systems, including mksysb and savevg.

65. How do you handle kernel extensions in AIX and what considerations do you make to ensure system stability?

66. Explain the concept of processor affinity in AIX and how it can improve application performance.

67. Describe the steps you would take to harden an AIX system against security threats.

68. How would you monitor and manage disk I/O performance in AIX, and what tools can you use?

69. Explain the purpose of the AIX errpt command and how you would use it to analyze system errors.

70. Describe how you would integrate AIX with other systems and services, such as LDAP or Active Directory.

71. What is the role of the AIX system resource controller (SRC), and how would you use it to manage system services?

72. Explain the differences between shared and dedicated processor partitions in AIX and when to use each type.

73. How would you automate system administration tasks in AIX using scripting languages like ksh or perl?

74. Describe your approach to troubleshooting complex AIX issues, including the tools and techniques you would use.

75. How would you optimize AIX performance in a virtualized environment, considering CPU and memory allocation?

76. Describe your experience with AIX security hardening techniques and compliance standards.

77. Explain your approach to troubleshooting complex AIX kernel panics and system crashes.

78. How do you manage and optimize storage in an AIX environment using LVM and file system tuning?

79. Detail your experience with AIX patching and upgrade strategies to minimize downtime.

80. Explain how you would design and implement a highly available AIX infrastructure.

81. How would you use AIX tools to diagnose network performance issues and bottlenecks?

82. Describe your approach to automating AIX system administration tasks using scripting.

83. Explain your experience with AIX virtualization technologies like PowerVM.

84. How do you ensure data integrity and consistency in an AIX environment?

85. Describe your approach to capacity planning and resource utilization in AIX.

86. How would you troubleshoot and resolve AIX performance issues related to I/O operations?

87. Explain your experience with AIX security features like RBAC and Trusted AIX.

88. How do you manage and monitor AIX system resources using tools like nmon and topas?

89. Describe your experience with AIX disaster recovery planning and implementation.

90. How would you approach migrating an AIX workload to a different hardware platform?

91. Explain your experience with AIX performance tuning at the kernel level.

92. How do you handle file system corruption in AIX, including identifying the cause and restoring data?

93. Describe your methodology for identifying and resolving memory leaks in AIX applications.