

# 58 Azure interview questions to ask cloud engineers and developers

## Questions

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1. What is Azure, and why would a company choose to use it?
2. Can you explain the difference between IaaS, PaaS, and SaaS?
3. What are Azure Resource Groups, and why are they important?
4. How would you scale an application in Azure?
5. What is Azure Active Directory, and how does it differ from on-premises AD?
6. What are Azure Functions, and when would you use them?
7. Can you describe what Azure DevOps is and its core components?
8. What is the role of Azure Policy, and how does it help in managing resources?
9. How do you ensure the security of data in Azure?
10. What is an Azure Storage Account and what types of data can it store?
11. Explain the concept of Azure Virtual Networks (VNETs) and their purpose.
12. How would you connect an on-premises network to Azure?
13. What is Azure Blob Storage and when would you use it?
14. Describe the difference between Azure VMs and Azure App Service.
15. What is Azure Key Vault and why is it important?
16. Explain the purpose of Azure Traffic Manager.
17. How does Azure Load Balancer differ from Azure Application Gateway?
18. What is Azure Cosmos DB and what are its main features?
19. Describe the process of deploying a web application to Azure App Service.
20. What is Azure Monitor and how can it be used?
21. Explain the concept of Azure Availability Sets.
22. What are Azure Service Principal and Managed Identities?
23. How would you secure access to an Azure SQL Database?
24. What is Azure Container Instances and when would you use it?
25. Describe the purpose of Azure Logic Apps.
26. What is Azure Content Delivery Network (CDN) and how does it work?
27. Explain the concept of Azure role-based access control (RBAC).
28. What is Azure Backup and how does it differ from Azure Site Recovery?
29. How would you troubleshoot a slow-performing Azure VM?
30. How would you design a highly available application in Azure?
31. Explain the differences between Azure Blob Storage, Azure Files, and Azure Disk Storage.
32. How would you implement a disaster recovery solution for an Azure-based application?
33. What is Azure Service Fabric, and when would you choose it over Azure Kubernetes Service?
34. How does Azure Front Door differ from Azure Application Gateway?
35. Explain the concept of Azure Managed Identities and how they enhance security.
36. How would you optimize costs in an Azure environment without compromising performance?
37. Describe the process of implementing a blue-green deployment in Azure.
38. How does Azure ExpressRoute work, and when would you recommend using it?
39. Explain the concept of Azure Availability Zones and how they differ from Availability Sets.
40. What are the key differences between Azure Kubernetes Service and Azure Service Fabric?
41. How would you implement a multi-region deployment strategy in Azure?
42. Can you explain the purpose of Azure App Insights and how it aids in application monitoring?
43. What is the function of Azure API Management, and when would you use it?
44. How do Azure Logic Apps integrate with other Azure services?
45. What is Azure Synapse Analytics, and how does it differ from Azure Data Lake?
46. Can you describe the benefits of using Azure Data Factory for data integration?
47. What are Azure Automation runbooks, and in what scenarios would you employ them?
48. How do you manage version control in Azure DevOps pipelines?
49. What is Azure Front Door's role in enhancing application performance and security?
50. How would you secure communication between an on-premises network and Azure?
51. What is Azure Conditional Access and how does it enhance security?
52. Explain the concept of Azure Privileged Identity Management (PIM) and its benefits.
53. How would you secure data at rest in Azure?
54. What is Azure Security Center and how does it help in maintaining security?
55. How would you implement network segmentation in Azure?
56. What is Azure DDoS Protection and when would you recommend using it?