

51 GCP Interview Questions to Hire an Expert

Questions

1. Can you explain the key differences between IaaS, PaaS, and SaaS in the context of Google Cloud Platform?
2. How does Google Cloud's global network benefit businesses?
3. What are the main benefits of using Google Kubernetes Engine (GKE)?
4. Can you discuss the importance of IAM (Identity and Access Management) in GCP?
5. What is the purpose of Google Cloud Storage, and how does it differ from Google Drive?
6. How do you monitor and manage costs in GCP?
7. What is Google BigQuery, and what are its primary use cases?
8. Can you explain the concept of 'regions' and 'zones' in Google Cloud Platform and why they are important?
9. What is Google Cloud Pub/Sub, and how does it facilitate communication between applications?
10. Can you describe the process of deploying a web application on Google App Engine?
11. How would you implement a continuous integration/continuous deployment (CI/CD) pipeline in GCP?
12. What is the role of Google Cloud Functions, and when would you use them?
13. How can you secure your GCP resources against unauthorized access?
14. What are the different types of Google Cloud databases, and when would you choose one over the others?
15. Can you explain the concept of load balancing in GCP and its importance?
16. How do you utilize Google Cloud IAM roles and policies to manage permissions?
17. What is the purpose of Google Cloud VPC, and how does it enhance network security?
18. How can you automate resource management in GCP using Infrastructure as Code?
19. How would you design a highly available and scalable application architecture in GCP?
20. Explain the concept of 'least privilege' in GCP and how you would implement it.
21. How would you approach migrating an on-premises application to GCP?
22. Describe how you would set up a CI/CD pipeline in GCP for a microservices architecture.
23. How would you optimize costs in a GCP environment without compromising performance?
24. Explain the concept of 'shared VPC' in GCP and when you would use it.
25. How would you approach disaster recovery planning in GCP?
26. Describe how you would secure data in transit and at rest in GCP.
27. How would you approach performance tuning for a BigQuery-based data warehouse?
28. Explain the concept of 'serverless' in GCP and provide examples of when you would use serverless solutions.
29. How would you set up a multi-region disaster recovery plan for a critical application in GCP?
30. Describe the process of implementing a blue-green deployment strategy using Google Kubernetes Engine.
31. How would you design a data pipeline to ingest, process, and analyze large volumes of streaming data in GCP?
32. Explain the steps to set up a private Google Kubernetes Engine cluster with limited public internet access.
33. How would you implement a custom machine learning model using Google Cloud AI Platform?
34. Describe the process of setting up a hybrid cloud environment connecting on-premises infrastructure with GCP.
35. How would you optimize the performance of a Cloud Spanner database experiencing high read latency?
36. Explain the steps to implement a zero-trust security model for a multi-tier application in GCP.
37. How would you design and implement a data lake solution using Google Cloud Storage and BigQuery?
38. Describe the process of setting up a global content delivery network using Google Cloud CDN.
39. How would you migrate a large-scale on-premises Hadoop cluster to Google Cloud Dataproc?
40. Explain the steps to implement a multi-region active-active architecture for a web application in GCP.
41. How would you set up end-to-end encryption for data in transit and at rest across GCP services?
42. Describe the process of implementing a canary release strategy for a microservices application in GKE.
43. How would you design and implement a real-time fraud detection system using GCP's data analytics services?
44. How do you ensure data security in GCP?
45. What are GCP's best practices for securing API access?
46. How do you handle security compliance in GCP?
47. What are some key features of GCP's Identity and Access Management (IAM)?
48. How can you secure a GCP Virtual Private Cloud (VPC)?
49. What strategies would you use to manage and secure service accounts in GCP?