

# 45 Nginx interview questions to ask administrator candidates

## Questions

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1. What is Nginx and what are its primary use cases?
2. How does Nginx differ from Apache in terms of performance and architecture?
3. Can you explain the concept of reverse proxy in Nginx?
4. What is the purpose of worker processes in Nginx?
5. How would you configure Nginx to handle SSL/TLS?
6. What are location blocks in Nginx and how are they used?
7. How can you implement load balancing with Nginx?
8. What is the significance of the nginx.conf file?
9. How would you troubleshoot a 502 Bad Gateway error in Nginx?
10. Can you describe how to set up URL rewriting in Nginx?
11. How do you configure Nginx to serve static files?
12. How would you restrict access to certain parts of a website using Nginx?
13. Can you explain how to set up a custom error page in Nginx?
14. What steps would you take to optimize Nginx performance?
15. How would you handle log management in Nginx?
16. What methods would you use to secure an Nginx server?
17. How would you implement rate limiting in Nginx?
18. Can you describe how to set up a virtual host in Nginx?
19. Can you explain what a load balancer is and how it is implemented in Nginx?
20. What is the purpose of the 'try\_files' directive in Nginx?
21. How does Nginx handle WebSocket connections?
22. What are the different types of caching mechanisms available in Nginx?
23. Can you describe the role of the 'upstream' block in Nginx configurations?
24. What is the difference between 'proxy\_pass' and 'rewrite' directives in Nginx?
25. How would you configure Nginx to serve multiple domains from a single server?
26. What is the significance of gzip compression in Nginx, and how is it enabled?
27. Can you explain how to set up a basic authentication mechanism in Nginx?
28. What factors would you consider when tuning Nginx for high traffic?
29. How would you optimize Nginx for high concurrency?
30. What are some strategies for reducing latency in Nginx?
31. How do you handle performance monitoring and logging in Nginx?
32. What methods would you use to manage resource limits in Nginx?
33. How would you configure Nginx to handle a burst of traffic efficiently?
34. What role does gzip compression play in Nginx performance tuning?
35. Can you explain the importance of tuning keep-alive connections in Nginx?
36. What techniques would you use to optimize SSL/TLS performance in Nginx?
37. How do you ensure that Nginx is scaling effectively with increased traffic?
38. How would you handle an unexpected spike in traffic that causes your Nginx server to slow down?
39. Imagine a scenario where users are complaining about slow response times from your Nginx server. How would you diagnose and resolve this issue?
40. What would you do if you discovered that your Nginx server is being targeted by a DDoS attack?
41. Suppose a deployment caused Nginx to crash. How would you go about restoring service and preventing future occurrences?
42. How would you handle a situation where Nginx needs to serve both static and dynamic content efficiently?
43. If an SSL certificate on your Nginx server is about to expire, how would you go about renewing it without downtime?
44. How would you approach setting up Nginx as a reverse proxy for multiple backend services?
45. What steps would you take to ensure high availability for your Nginx server?