

Terraform interview questions

1. What is Infrastructure as Code?
2. What are the benefits of IaC?
3. What are the advantages of Terraform?
4. What is the purpose of the Terraform State?
5. What is the name of the terraform state file?
6. What are the Providers?
7. How do you configure a Provider?
8. How do you upgrade to the latest acceptable version of the provider?
9. How do you configure Multiple Provider Instances?
10. Why do we need Multiple Provider instances?
11. How do we define multiple Provider configurations?
12. What is the command to initialize the directory?
13. Why do we need to initialize the directory?
14. If different teams are working on the same configuration. How do you make files to have consistent formatting?
15. If different teams are working on the same configuration. How do you make files to have syntactically valid and internally consistent?
16. What is the command to create infrastructure?
17. What is the command to show the execution plan and not apply?
18. How do you inspect the current state of the infrastructure applied?
19. If your state file is too big and you want to list the resources from your state. What is the command?
20. What are Provisioners?
21. How do you define provisioners?
22. What are the types of provisioners?
23. What is a local-exec provisioner and when do we use it?
24. What is a remote-exec provisioner and when do we use it?
25. When terraform mark the resources are tainted?
26. You applied the infrastructure with terraform apply and you have some tainted resources. You run an execution plan now what happens to those tainted resources?
27. How do you manually taint a resource?
28. What does this symbol version = "~> 1.0" mean when defining versions?
29. Terraform supports both cloud and on-premises infrastructure platforms. Is this true?
30. You are provisioning the infrastructure with the command terraform apply and you noticed one of the resources failed. How do you remove that resource without affecting the whole infrastructure?
31. What is the command import?
32. What are workspaces?
33. You are working on the different workspaces and you want to use tags based on the workspace. How do you achieve that?
34. You want to create a parallel, distinct copy of a set of infrastructure in order to test a set of changes before modifying the main production infrastructure. How do you achieve that?

35. What is the command state?
36. How do you list the resources for the given name?
37. What is the command that shows the attributes of a single resource in the state file?
38. If terraform crashes where should you see the logs?
39. You are building infrastructure for different environments for example test and dev. How do you maintain separate states?
40. What is the command to pull the remote state?
41. Your team has decided to use terraform in your company and you have existing infrastructure. How do you migrate your existing resources to terraform and start using it?
42. When you are working with the workspaces how do you access the current workspace in the configuration files?
43. When you are using workspaces where does the Terraform save the state file for the local state?
44. How do you remove items from the Terraform state?
45. How do you move the state from one source to another?
46. What is a Terraform Module?
46. Why do we use modules for?
- 47.. What are the different source types for calling modules?
48. Where do you put output variables in the configuration?
49. How do you pass input variables in the configuration?
50. What is the child module?

51. What is the required argument for the module?
52. When installing the modules and where does the terraform save these modules?
53. When you are doing initialization with terraform init, you want to skip backend initialization. What should you do?
54. How do you target only specific resources when you run a terraform plan?
55. How do you update the state prior to checking differences when you run a terraform plan?
56. What is State Locking?
57. If you want to switch from using remote backend to local backend. What should you do?
58. How do you encrypt sensitive data in the state?
- 59.. How do you define a variable?
60. How do you access the variable in the configuration?
61. How many ways you can assign variables in the configuration?