**Architect Interview Questions:**

1. Landing Zone - Monolithic and Microservices (How can we make highly available secure and scalable/ cost optimized/ DR Landing zone).
2. Any approach to migrate from on\_prem to Azure application.
3. Smallest azure resource to deploy any application.
4. Explain and use case of Service account in AKS.

**Azure Cloud Interview Questions:**

1. What is different between Application getaway and Front Door.
2. We have one application is hosted on on-premises another application hosted in azure cloud so now we want to communicate Api from on-promises and with Data so this requirement how suggests what action you will take as a Devops engineer.
3. I have an application hosted on azure am trying to access but getting 503 Error how to troubleshoot please tell the steps.
4. I have a VM one application hosted on this VM today suddenly VM not working we trying to access this VM we login the azure portal and we have stop this VM, it took long time but after that VM not working showing only showing starting application is down what action you will take to seamless action in production.
5. We are working on the cloud; we have an app ID and a secret, so where do you store it and how does Key Vault work?
6. Azure networking hub and spokes model.
7. Azure Networking.
8. What is the difference between the L4 and L7 load balancers?
9. How to recover the SSH key of VM.
10. How to ping 2 VM's
11. In 1 vnet we have 2 subnets Inside the subnets we have 4 vm’s communicate 2 vm.
12. Which number rule have high precedence.
13. We have Web app how we can connect with azure key vault.
14. If something went wrong in web app how can I see the logs.
15. I want to take the backup of vm's every night how you will do that?
16. Tell me about azure storage services.
17. What is Vnet peering?
18. What is transit gateway and Express route?
19. What services you have use to move your complete landing zone present on VM to other cloud services
20. What is Time series and Event Handler?
21. What are Azure functions and WebApp
22. How to create a policy?
23. How you will provide access of storage account to a specific node?
24. How can you access to a specific azure resources via a virtual machine?
25. What is Private end point and Service end point?
26. How to access files from storage account from VM (Temporary access to Storage account) – SAS?
27. What is Service bus and service bus queue?
28. How can we secure state file credentials (CMK - customer Managed Key --usage)?
29. How can we access resources from one subscription to another?
30. PAAS Services - Azure Functions, WebApp, Logic Functions.

**Terraform Cloud Interview Questions:**

1. What is Data block? any one example.
2. Terraform life cycle
3. Let's suppose how we can allow in terraform that our team member can’t use the incorrect configuration so that our existing resource not destroy
4. Write a VM Code
5. How you create virtual machine through particular subscription through terraform?
6. How we can login in terraform without passing username and password?
7. While creation of service connection we don’t want to use app secrete is there any other way to create service connection?
8. Let’s suppose you are using terraform local now how to authenticate with azure how you will do that?
9. how to configure secrets in terraform code?
10. How to deploy application in docker container?
11. What is terraform provider?
12. What is terraform state file?
13. If, I delete the sate file then what will happen?
14. How we can recover the sate file?
15. What is modules and dynamic Block?
16. What is terraform provisioner?
17. What is Null resource in terraform?
18. How you handle the secrets in terraform / Hashicorp Vault?
19. What is Terraform workspace?
20. What is terraform taint?
21. What is purpose the Refresh command?
22. What is Data Source in Terraform?
23. What is Terraform import?
24. Let's suppose I have created 1 VM manually, Now I want this resource in my state file.
25. Why we are using terraform output values?
26. What is local exec provisioner in terraform?
27. What is Remote exec provisioner in terraform?
28. What is terraform Limitation?
29. How do You are going to deploy blue green deployment through terraform?
30. How many dependencies in terraform and how we use it?
31. What will happened when you run terraform init?
32. How do you update the provider version and how do you handle it what method you take?
33. What is purpose of terraform module what problem does it solve?
34. How do you configure remote state Manager?
35. How You Manage the Life Cycle of the terraform state file make sure secure and safe.
36. What is the command you use to acquire resources through terraform?
37. When you Run Terraform Apply what will happen?
38. Suppose, there is some change in terraform code and you have made that changes. What process you follow or validation to be specific before pushing to Production?
39. what is the roll back approach in terraform?
40. How can you use a same state file for creating resources in both Dev and QA env?
41. what is terraform post variables in terraform?
42. If 10 storage accounts deployed with terraform and someone deleted 3 storage account manually from azure portal, so what changes will you make in the code to avoid the ‘terraform refresh’ command?
43. ⁠Which terraform version you will use to use the data blocks on loop?
44. How to recover tfstate file when there is retention period also got over?
45. Meta - arguments in Terraform (Count and for-each explanation).
46. How can we use variables from one module to another module?
47. What is Terraform alias- use cases?
48. What is null resource in terraform?
49. What is local variables in terraform?
50. What is local block in terraform?

**DevOps Pipeline Interview Questions:**

1. What Tool you are using to scan the code in CI CD pipeline. How it will work? Explain.
2. What is the Use of API Management Service?
3. I created new build in Azure pipeline and am getting error access denied not have right permission we have run manually and have all permission what is the troubleshooting steps.
4. Plug in error in pipeline what is the troubleshooting steps?
5. What is CI CD and continuous deployment?
6. How many systems defined variables in azure YAML pipeline, Tell name any two?
7. What is Artifacts in pipeline?
8. What is CI and CD?
9. Write a YAML pipeline.
10. How to integrate SonarQube in pipeline?
11. If we have to setup 1 pipeline and it should execute every 1 hour and it should run on latest commit how you do it?
12. What is use of trigger in azure pipeline?
13. What is difference. between YAML pipeline and classic pipeline?
14. What is use and role of task group in classic pipeline?
15. We have A YAML pipeline which is repo 1 pipeline B in repo 2 both are different repo customer want trigger pipeline A and I also invoke pipeline B, how you will do it?
16. What is shift left approach in CICD pipeline?
17. Can we create a GCP/AWS pipeline (Infra Pipeline) from Azure DevOps?
18. What is GitOps?

**DevOps Pipeline Scenario Based Interview Questions:**

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