**Technical Interview / Technical Manager/Troubleshooting rounds Questions   
  
PointClickCare**

**Linux**

1. Which Linux command shows the operating system name and version?
2. What Linux troubleshooting tasks have you performed in a production environment?
3. Linux boot process?
4. What is process management, zombie processes, and how will you kill them?

**Terraform**

1. If an administrator manually changes an EC2 instance in the AWS console, how do you reconcile that change in the Terraform state file?
2. How do you resolve a Terraform state lock issue?
3. An EC2 instance was created or modified directly from the AWS console. When you run terraform plan or apply, Terraform shows a mismatch or error. Why does this happen, and how do you fix it?
4. While running terraform init you get:

Error: Failed to query available provider packages

What could cause this and how do you troubleshoot?

**Kubernetes**  
9. How do you troubleshoot pods in CrashLoopBackOff or Pending states?

10.What is a **Pod Disruption Budget** and why is it used?  
11. Explain the difference between a **StatefulSet** and a **DaemonSet**.  
  
12. Share a major, high-priority incident you resolved in a Kubernetes environment.  
13. Explain PersistentVolume (PV) and PersistentVolumeClaim (PVC) usage.  
14. What is autoscaling, and when would you use it?

15. How will you troubleshoot a pod in a pending issue?

16. Describe the main components of Kubernetes (cluster architecture).

**Python / Scripting**  
15. Interpret the output of a given Python script.

16. Bash script question, to find the error from a list of errors?

**Intermedia Cloud**

1. Describe the steps for adding a LUN (Logical Unit Number) to a Linux server.
2. Explain how to create raw devices for an Oracle RAC cluster.
3. What is Realmd and how is it used?
4. Explain SSD configuration or considerations.
5. Compare TCP and UDP protocols.
6. Explain DNS?
7. What are soft links and hard links in Linux, and how do they differ?
8. Explain IP address classes or types of network addresses.
9. Provide the output of a given Bash script.
10. Provide the output of a given Python script.
11. What is EKS and AKS ?
12. What is a security group in AWS? Why is it used ?
13. Differentiate between ConfigMaps and Secret?
14. What are different types of services in Kubernetes ?

**Solace Pubsub**

1. What are public and private IP addresses, and where are they typically used?
2. How do you expose an application so external users can access it?
3. How would you restrict an application so it is accessible **only** inside the cluster, and why might you do this?
4. During a hardware failure where a node shows **NotReady**, how would you troubleshoot and restore service?
5. If a node remains Pending but it’s *not* a hardware issue, how would you investigate and resolve it?
6. Explain **affinity** and **anti-affinity** in Kubernetes.
7. Describe one real-world Kubernetes troubleshooting scenario you have handled.
8. Explain PV, PVC, and their practical usage.
9. What are **taints** and **tolerations**, and why are they important?
10. Explain in detail the work/ daily tasks you have done in the previous Project as an SRE
11. List some security measures that you can take while using Kubernetes
12. Kubernetes command to find the status of all pods in ‘dev’ namespace from all nodes.
13. If a node failed due to a kubelet issue, how will you solve this?
14. How do you validate Kubernetes logs to find pod issues?
15. What is ingress and when is it used?
16. An application running on Kubernetes is facing higher traffic. How would you scale it effectively to ensure it continues to meet its SLA?