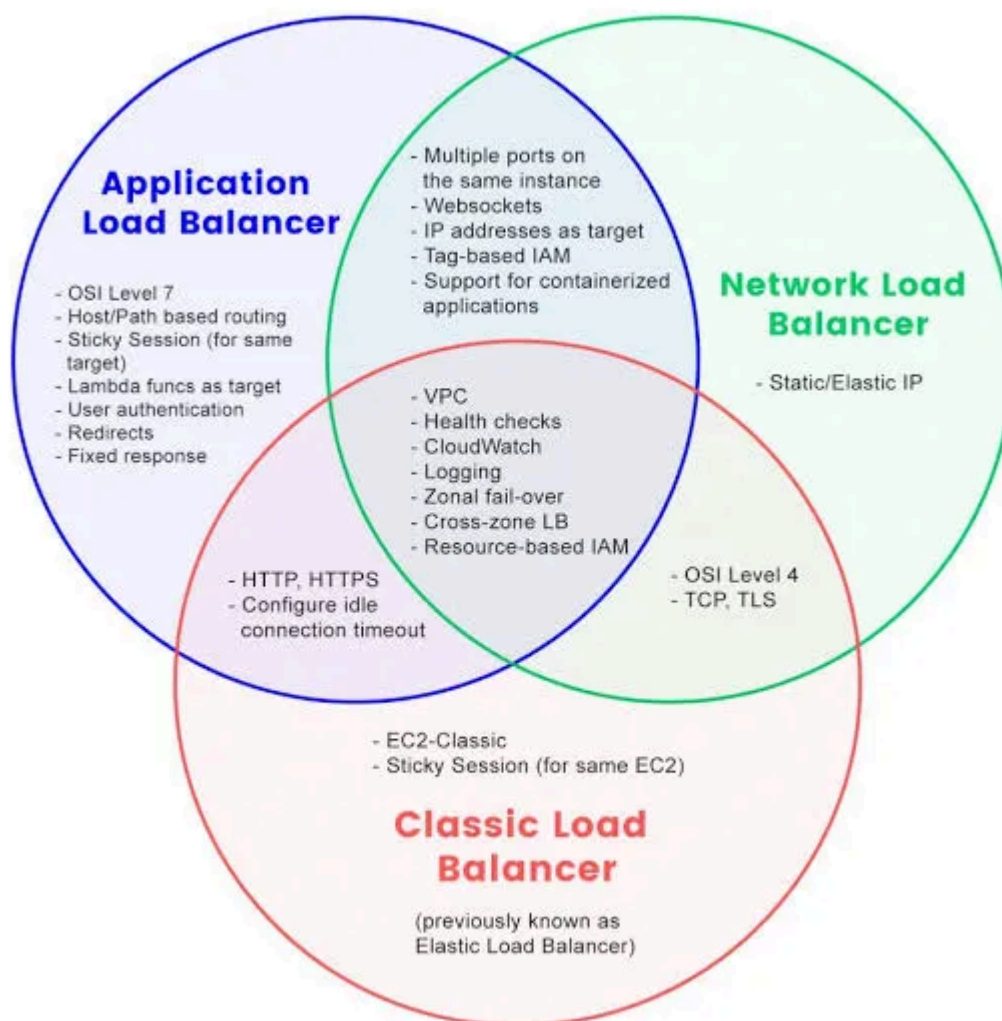




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AWS ELB Service Interview Questions & Answers



Bharath Kumar Reddy · [Follow](#)

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Here are some interview questions related to AWS Elastic Load Balancers (ELB) for experienced DevOps Engineer roles, along with answers:

1. What is AWS Elastic Load Balancing (ELB), and how does it contribute to high availability and scalability in a DevOps environment?

Answer: AWS Elastic Load Balancing is a service that automatically distributes incoming application traffic across multiple targets, such as EC2 instances, containers, or Lambda functions. It contributes to high availability and scalability in DevOps environments by distributing traffic, ensuring fault tolerance, and optimizing resource utilization.

2. Explain the different types of Elastic Load Balancers provided by AWS, and when would you choose one over the other?

Answer: AWS offers three types of ELBs:

- Application Load Balancer (ALB): Best for HTTP/HTTPS traffic and advanced routing features.
- Network Load Balancer (NLB): Ideal for high-performance, low-latency, and TCP/UDP traffic.
- Classic Load Balancer: Provides basic load balancing for applications that rely on classic EC2 instances.

3. How can you create and configure an Elastic Load Balancer in AWS, and what are the key parameters you need to define during setup?

Answer: You can create an ELB using the AWS Management Console, AWS CLI, or CloudFormation. During setup, you define parameters such as the listener configuration, target groups, security groups, and optionally, the routing rules for an ALB.

4. What is the purpose of health checks in Elastic Load Balancers, and how do they help ensure the availability of application instances?

Answer: Health checks are used to monitor the health of registered targets (e.g., instances or containers). ELBs periodically check the health of targets based on the defined health check settings and route traffic only to healthy targets, ensuring application availability.

5. Explain the concept of cross-zone load balancing in AWS ELB, and how does it affect the distribution of traffic to instances in different Availability Zones?

Answer: Cross-zone load balancing allows ELBs to evenly distribute traffic across instances in different Availability Zones. By default, ELBs evenly distribute traffic to all healthy instances, regardless of the AZ they belong to, promoting balanced traffic distribution.

6. How can you ensure the security of Elastic Load Balancers, and what are the best practices for configuring security groups and access control?

Answer: Best practices for ELB security include using security groups to restrict access to your load balancer and back-end instances, enabling encryption using SSL/TLS, and using Web Application Firewall (WAF) for advanced security features.

7. Explain the use of AWS Auto Scaling with Elastic Load Balancers and how they work together to provide dynamic scaling for applications.

Answer: AWS Auto Scaling and ELBs work together by automatically adding or removing instances based on defined scaling policies. When the load on your application increases, Auto Scaling adds instances, and ELB ensures that traffic is evenly distributed to them.

8. What is connection draining, and how does it help ensure a smooth transition when instances are removed from an ELB?

Answer: Connection draining allows in-flight requests to be completed when instances are removed from an ELB due to scaling activities. It ensures a smooth transition, preventing abrupt disconnects and maintaining a good user experience.

9. How can you configure path-based routing with an Application Load Balancer (ALB), and what are the typical use cases for this feature?

Answer: Path-based routing in ALBs allows you to route traffic to different target groups based on the path of the URL. Typical use cases include hosting multiple applications on a single ALB or deploying microservices that share a single ALB.

10. What are the cost factors to consider when using Elastic Load Balancers, and how can you optimize costs while ensuring high availability and performance?

Answer: Cost factors include the number of load balancers, data transfer, and hourly usage. To optimize costs, you can consolidate multiple services on a single ALB, implement intelligent routing, and use Auto Scaling to adapt to traffic fluctuations.

11. Explain how you can set up monitoring and logging for Elastic Load Balancers using AWS CloudWatch, and what metrics and insights can be obtained from ELB logs.

Answer: You can set up monitoring and logging using CloudWatch to track metrics like request counts, latency, and error rates. ELB logs provide detailed information about request traffic and can be analyzed to gain insights into application performance.

These questions and answers provide insights into AWS Elastic Load Balancing, its role in managing application traffic, and its impact on high availability and scalability in a DevOps environment, which is crucial for experienced DevOps engineers.



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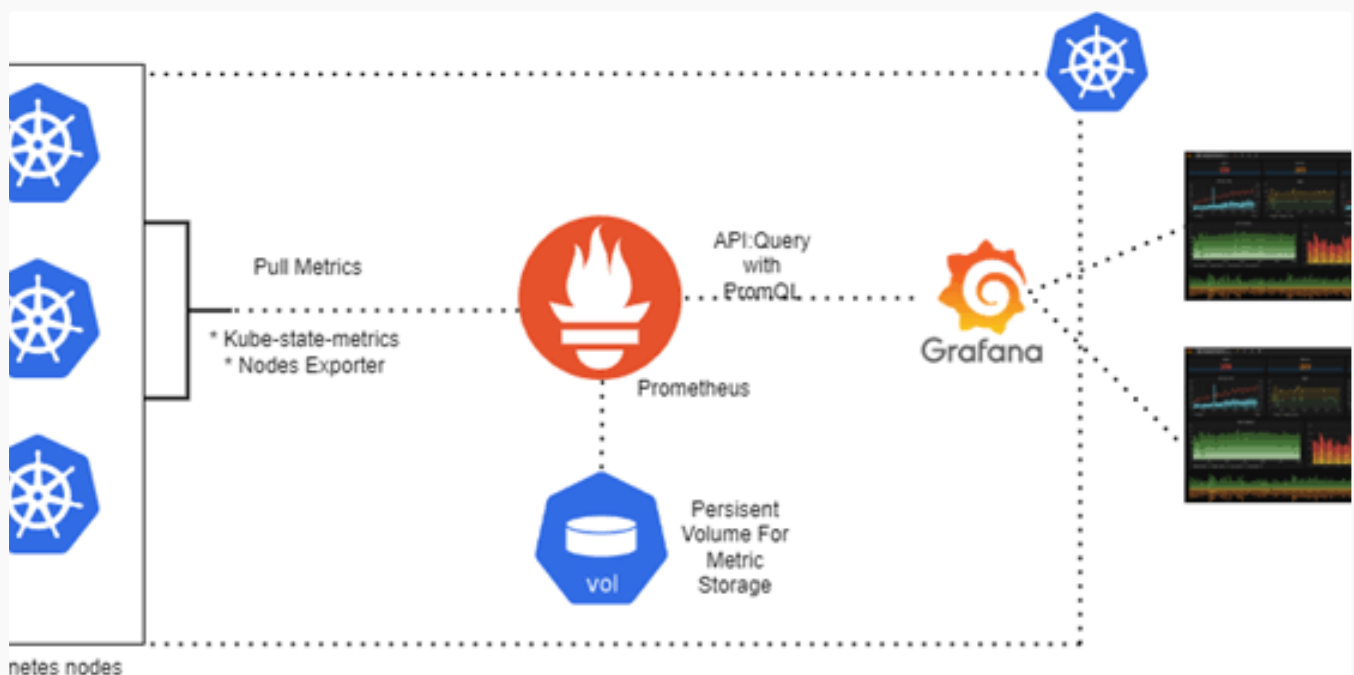
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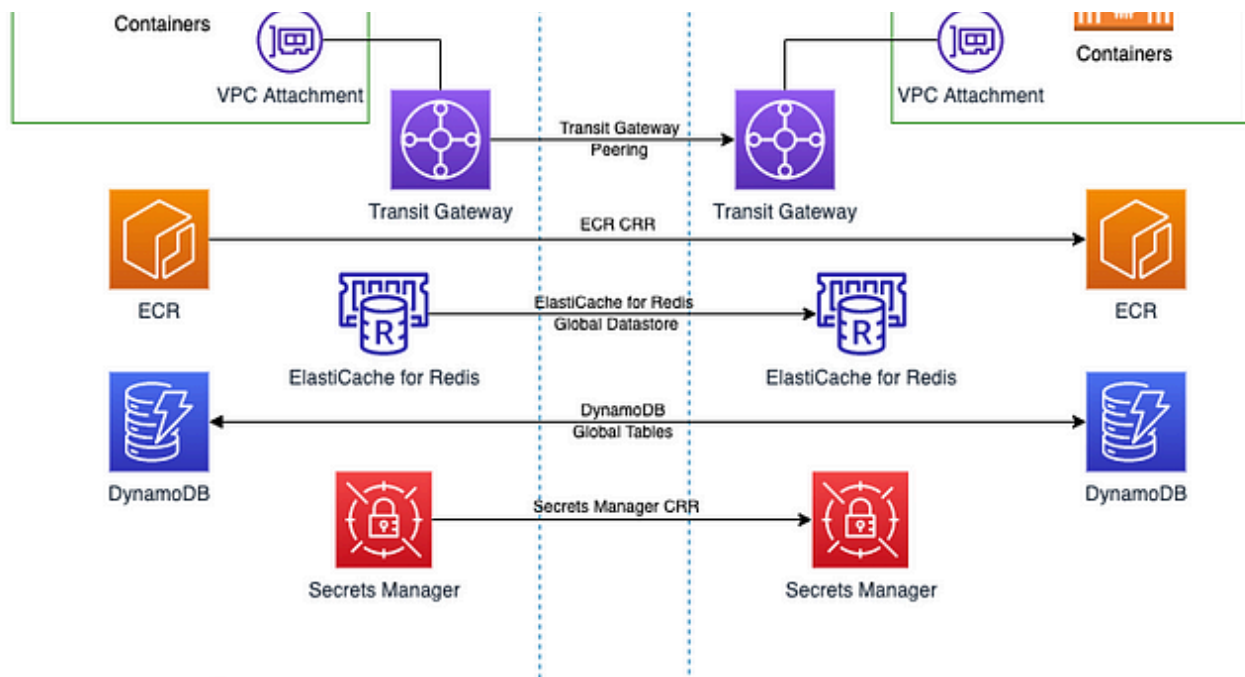
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
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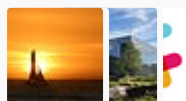


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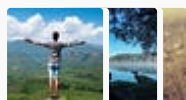
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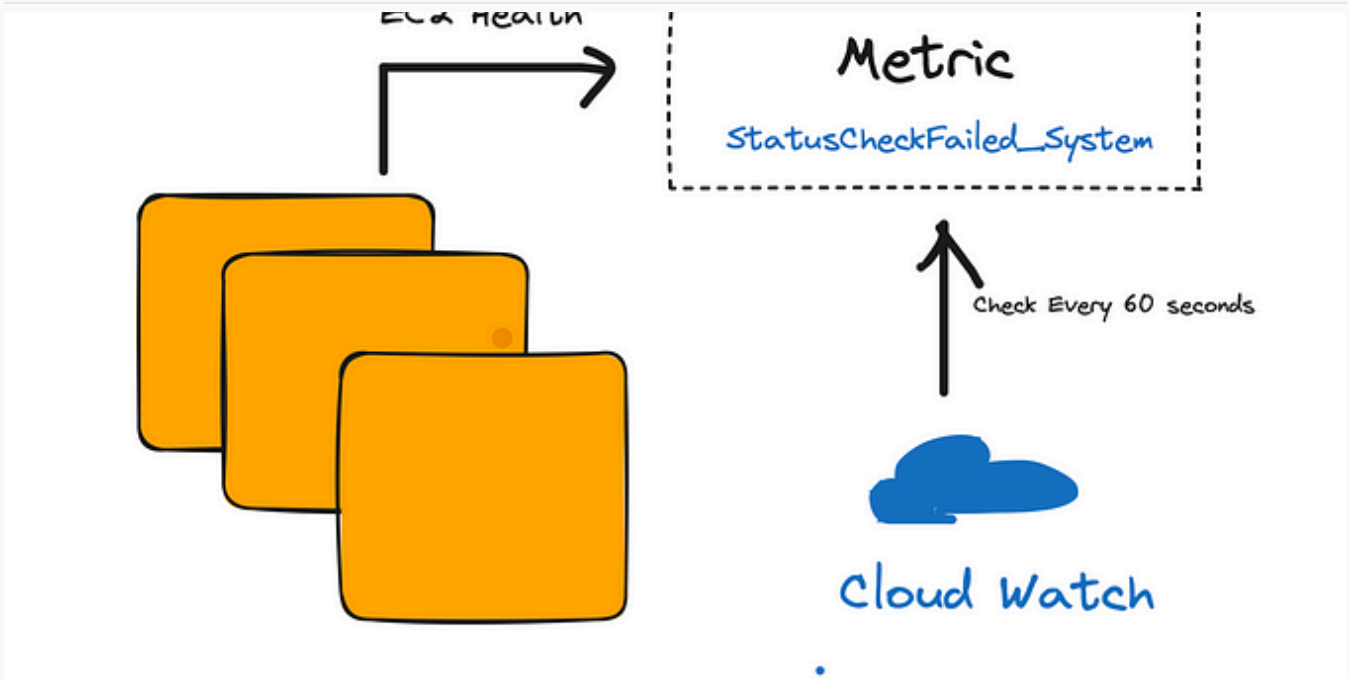


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