

# DevOps Real-Time Interview Questions with Detailed Answers and Examples

## 1. EC2 Traffic Spikes During Business Hours ? Cost & Performance Optimization

Solution:

- Use Auto Scaling Groups (ASG): Automatically increase instances during business hours and decrease during off-peak hours.
- Use Spot Instances or Savings Plans: If traffic is predictable, use Savings Plans or Reserve Instances; else Spot Instances can reduce cost.
- Application Load Balancer (ALB): Distribute traffic evenly to avoid overloading instances.

Example:

A retail company sees spikes 9 AM-6 PM. Use ASG with scheduled scaling policy to scale out to 10 instances during peak and scale in to 2 off-hours. Combine with Reserved Instances for cost savings.

## 2. EC2 Instance Crashed ? Steps to Identify & Restore

Steps:

1. Check AWS CloudWatch Metrics: Look for CPU, memory, disk, or network anomalies.
2. Review System Logs: Use EC2 Console -> Actions -> Instance Settings -> Get System Log.
3. Check for OOM or kernel panic in /var/log/messages or dmesg.
4. Use EC2 Image (AMI) to relaunch a new instance.

Example:

If dmesg shows "Out of memory: Kill process," your app may need more memory. You can modify instance type or tune the app.