Elastic Load Balancers (ELB)

Get a quick overview of AWS ELBs, Cloud Watch, CloudTrails, and EC2 Placement groups, how they help in when you design your applications.

Elastic Load Balancers - Is a virtual appliance that is used to distribute traffic across your multiple application instances.

Instances are checked by the LB and they re-route the traffic if they find an application is not returning any data back.

All AWS Load Balancers have their own DNS name.

Cloud Watch

1. Monitoring and setting up alarms that notify the user if an AWS threshold is hit.

2. Events in cloud watch help you to respond to a state charge of your resources.

Cloud watch Logs – helps you aggregate monitor and store logs. This done by installing an agent on your EC2 server.

CloudTrail – Audits what is created or modified in terms of AWS infrastructure
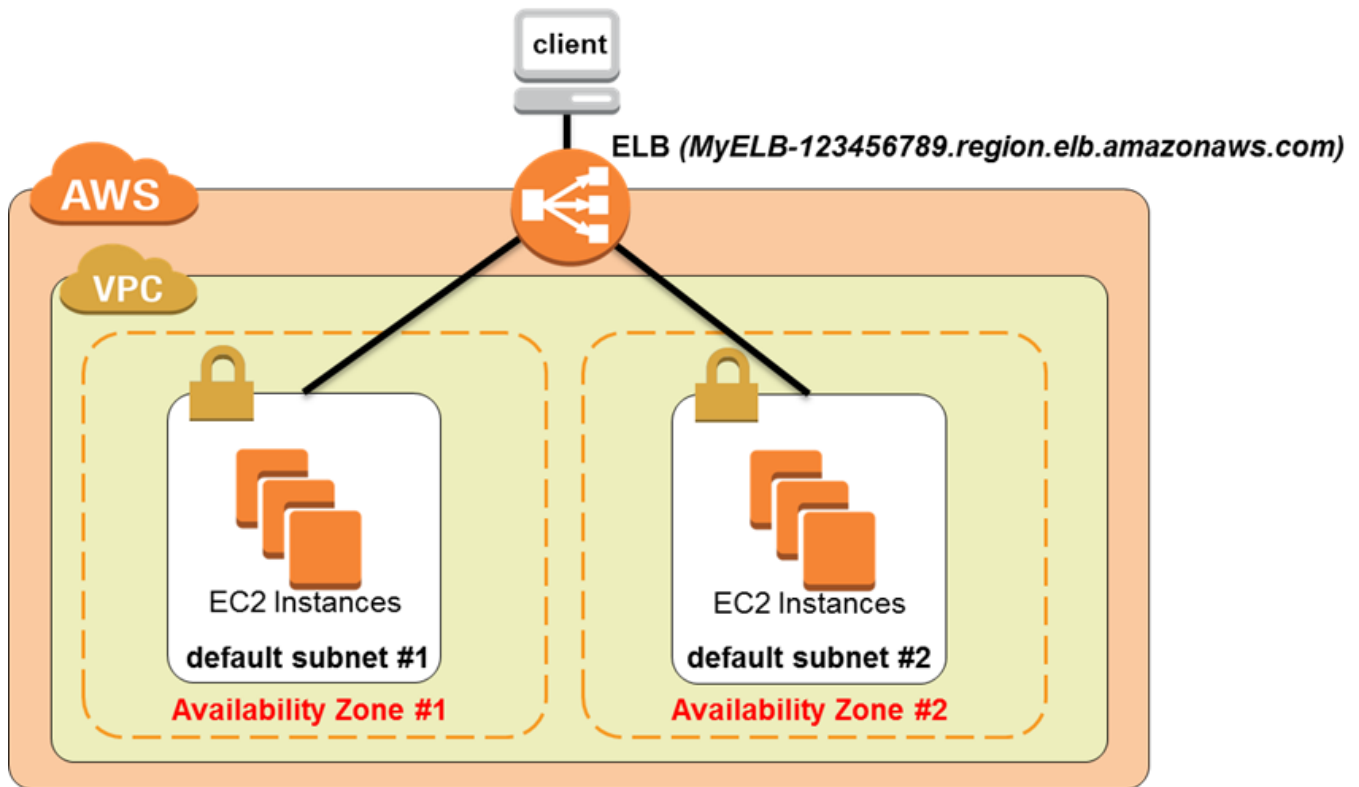
Elastic Load-balancing Across Two Availability Zones

EC-2 Placement Groups

Logical grouping of instances within a single availability zone. You can have placement groups that enable applications to participate in low latency, 10 Gbps network.

Placement groups are recommended for applications that benefit from low latency and high network throughput or both.

Take for example a Hadoop cluster or a No SQLDB where you need really high network throughput or low latency between your NoSQL DB nodes.