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Cloud Computing Architecture

More on Load Balancing





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More on Load Balancing

This presentation:

- Elastic Load Balancing
 - Connection Draining
 - Sticky Policy Configuration
 - Elastic IP Addresses



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Why Choose Elastic Load Balancing?



Elastic Load Balancing provides the following features:

- High availability
- Health checks
- Security features
- Layer 4 or layer 7 load balancing



Connection Draining for Your Load Balancer



Enabling connection draining causes the load balancer to stop sending new requests to the back-end instances when instances are de-registering or become unhealthy.

Why is this important?

You can perform maintenance without affecting your end users.

Enable connection draining through:

- AWS Management Console
- API
- AWS Command Line Interface, or AWS CLI
- AWS CloudFormation



Sticky Policy Configuration



- Defines a cookie expiration, which establishes the duration of validity for each cookie, automatically updated after its duration expires.
- Application-controlled session stickiness:
 - Uses a special cookie to associate the session with the original server that handled the request.
 - Follows the lifetime of the application-generated cookie that corresponds to cookie name specified in the policy configuration.
 - Load balancer inserts new stickiness cookie if the application response includes a new application cookie.
 - If the application cookie is removed or expires, the session stops being sticky.

Elastic IP Addresses



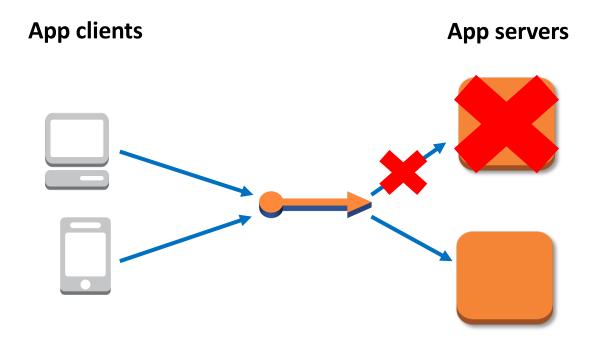


Elastic IP Addresses:

- Are static IP addresses designed for dynamic cloud computing.
- Can be attached to Amazon EC2 instances.
- Enable you to mask the failure of an instance or software by allowing your users and clients to use the same IP address with replacement resources.

Elastic IP Addresses Enable HA





If one instance goes down, clients can use the same IP address to reach the replacement instance.

Lecture References



References

Recommend Viewing

Swinburne Lecture – High Level Overview

AWS Academy – Deeper dive

ACA Module 9

