

Cloud Computing Architecture

Highly Available Applications



Highly Available Applications

This presentation:

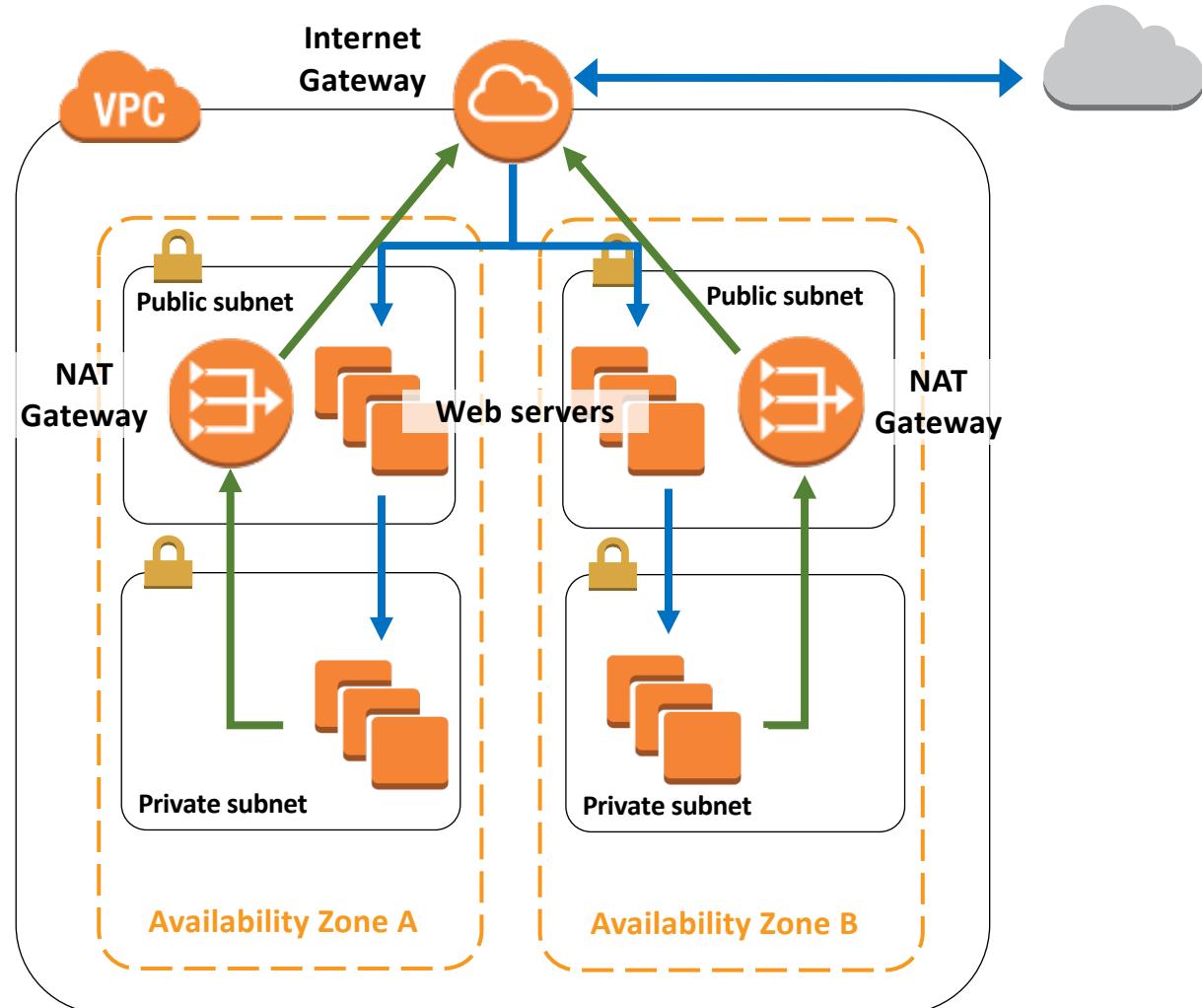
- An Exercise



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Exercise: Improve This Architecture

How Can the Availability of this Environment Improved?



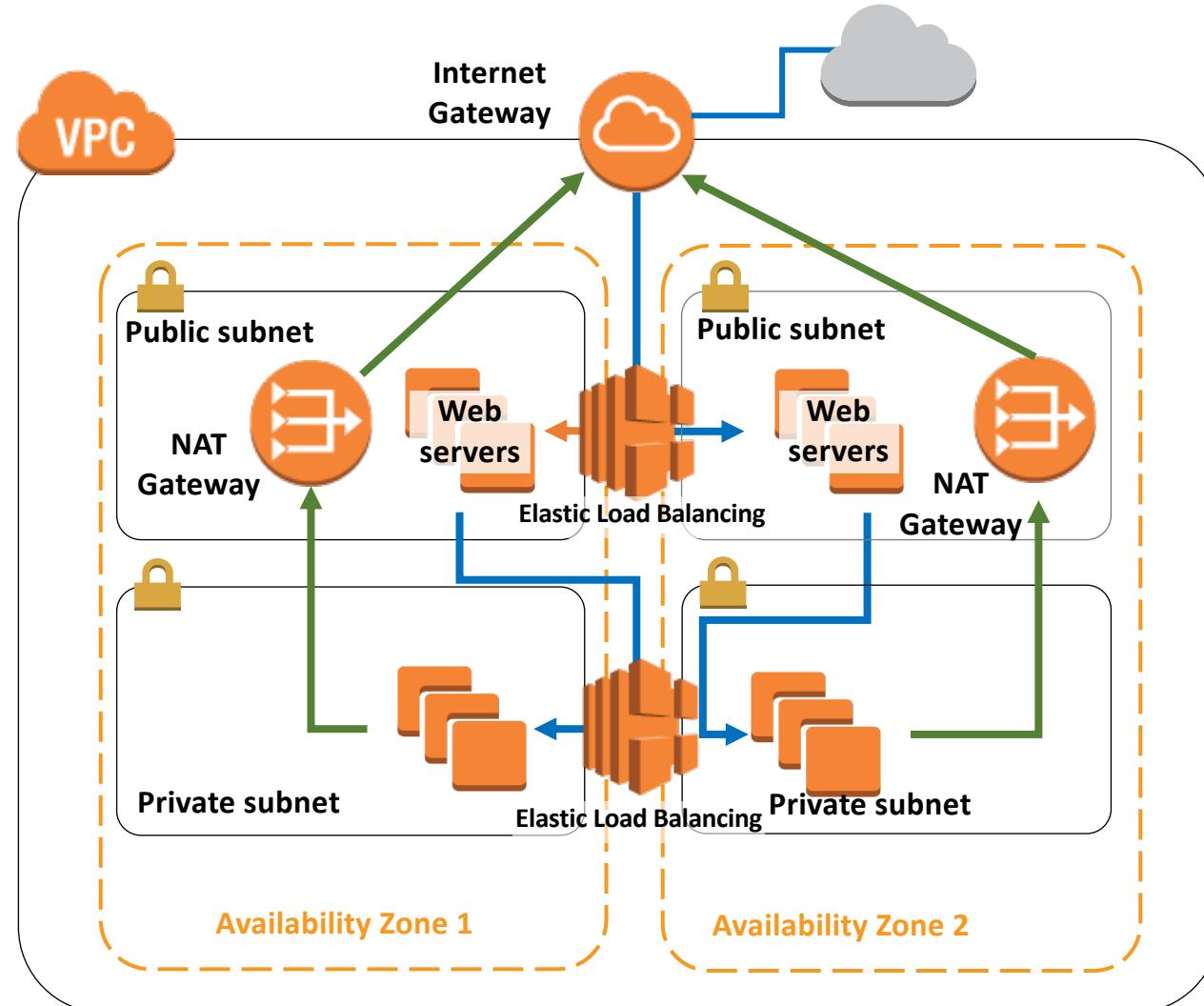
HA with Load Balancing

Internet-Facing Load Balancer

- Deployed in **public** subnet.
- Balancing traffic to Web servers in two Availability Zones.

Internal Load Balancer

- Intranet-facing or internal.
- Distribute traffic to your EC2 instances from clients with access to the VPC for the load balancer.



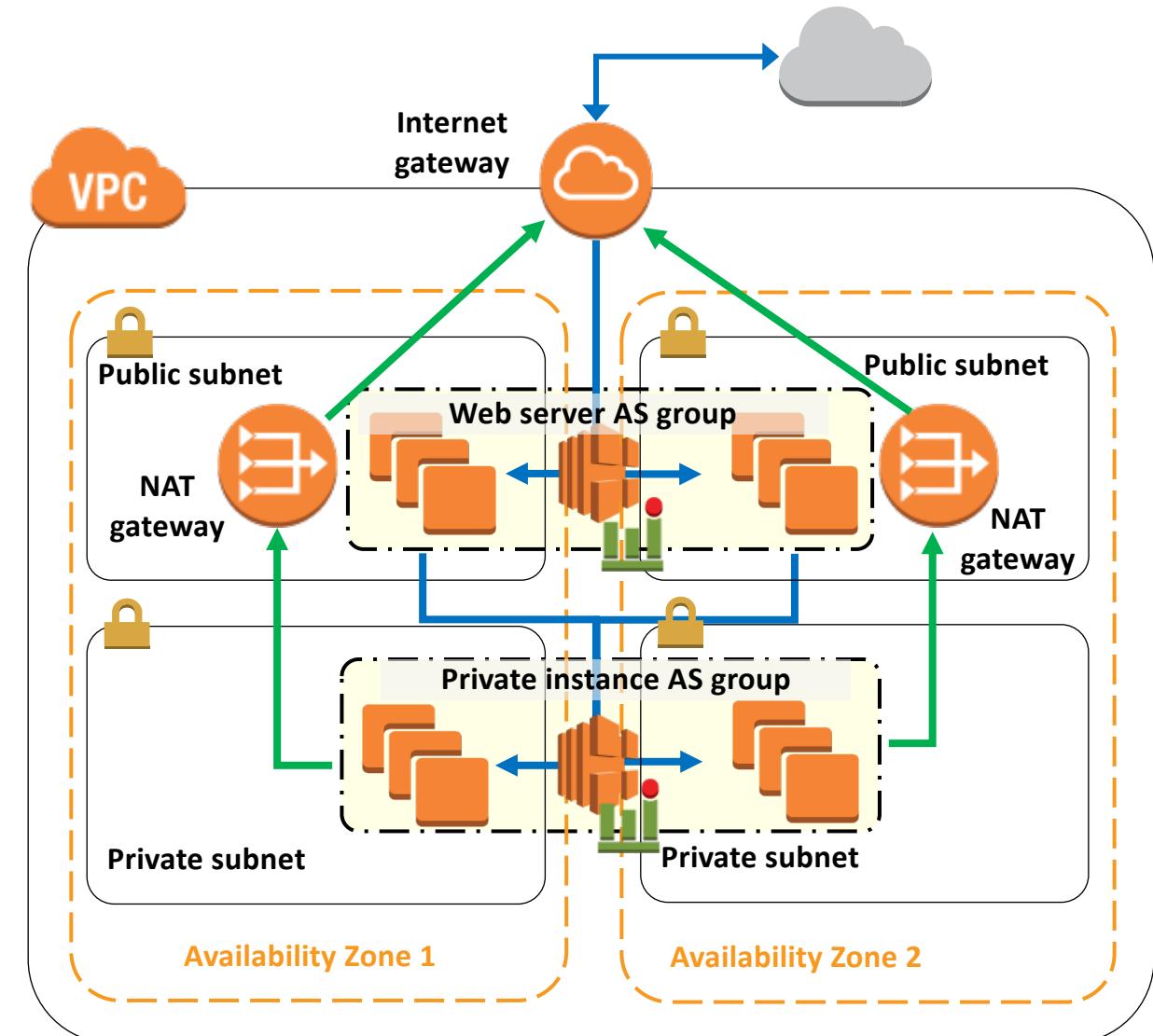
HA with monitoring and scaling

Amazon CloudWatch

- Monitors the health of your ELBs and/or your instances and launches actions appropriately.

CloudWatch Alarm

- When a CloudWatch alarm is triggered based on metrics specified, it takes action.
- Actions could include sending a notification to Amazon SNS topic or triggering a scaling action.



Lecture References

References

Recommend Viewing

Swinburne Lecture – High Level Overview

AWS Academy – Deeper dive

ACA Module 9