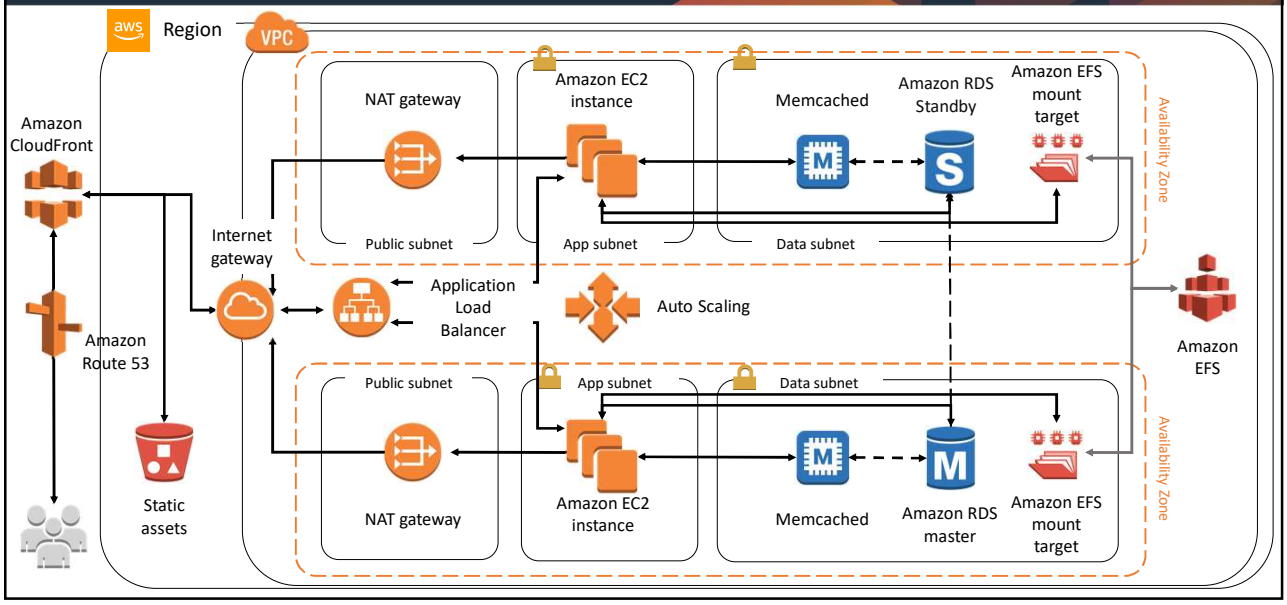
aws training and certification

Optimizations and Review

Module 14

0

Large Scale Architectural Diagram

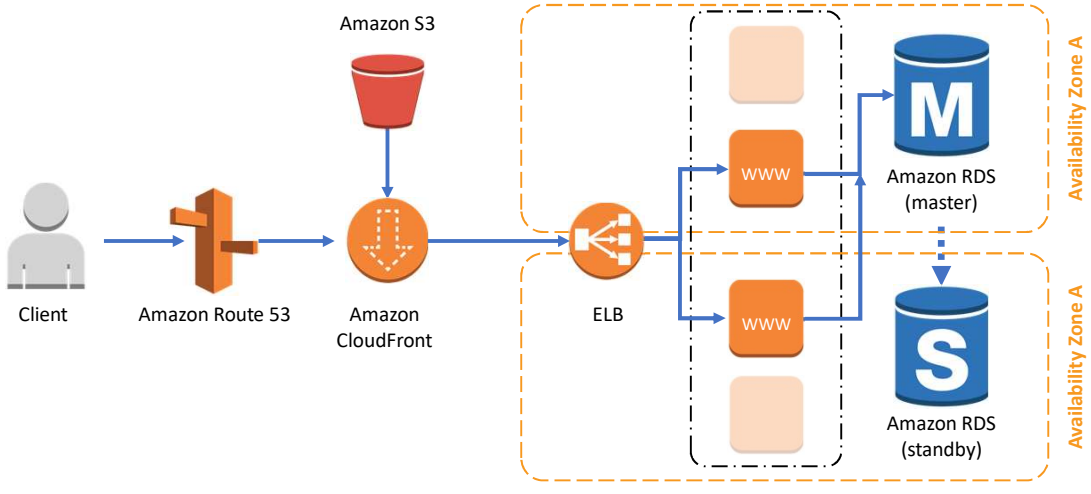


1

Re-Architecting

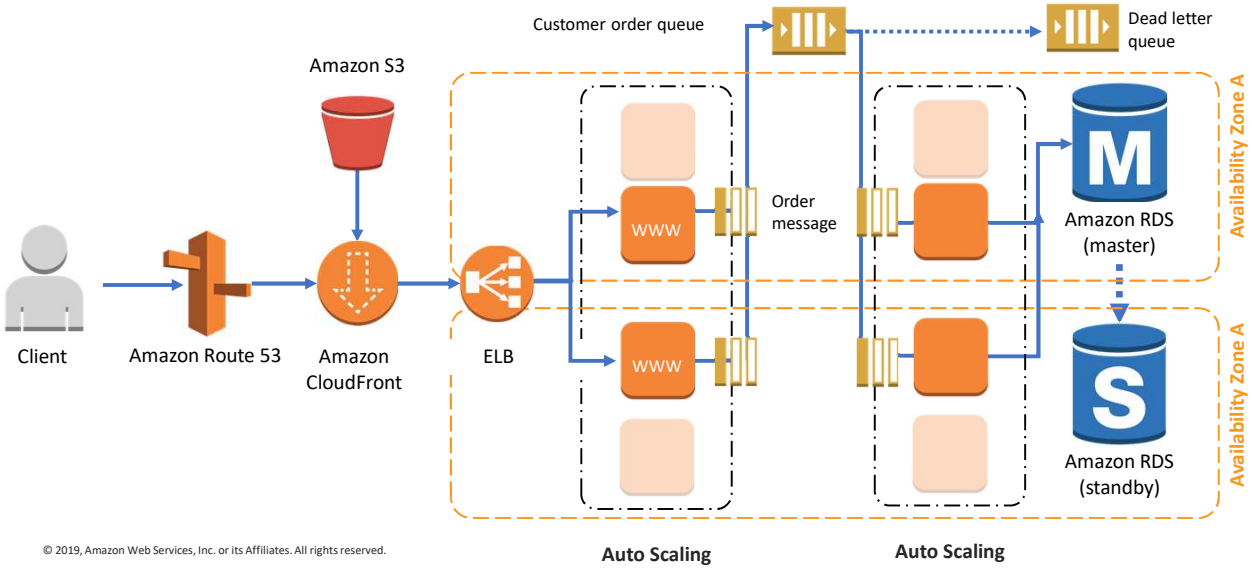
2

How Do You Make an Architecture Loosely Coupled?



3

Introduce an Amazon SQS Queue

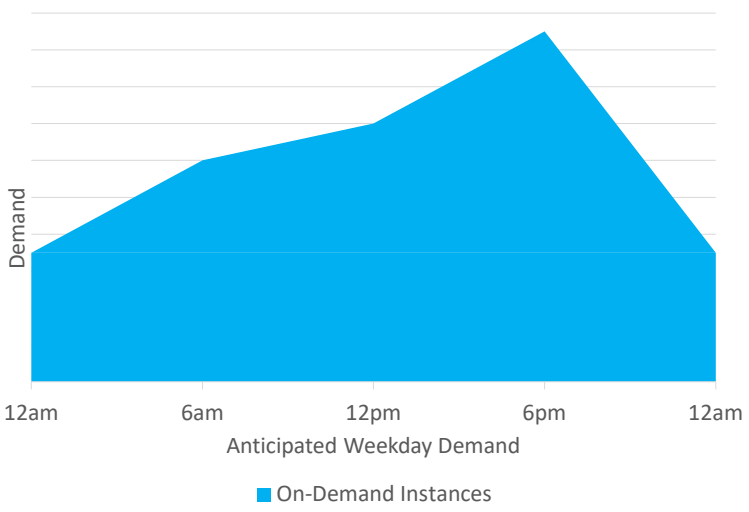


4

How Can You Reduce Cost in This Scenario?

The client has traffic volumes as seen in this graph:

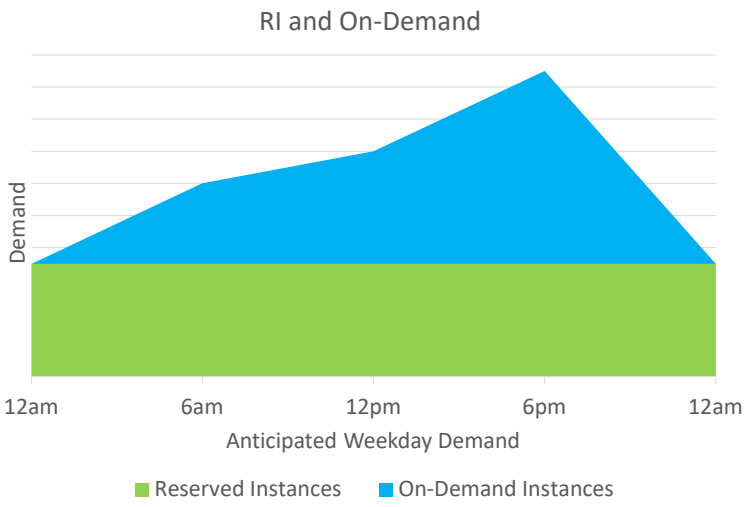
- Spike in traffic during work hours
- Base level of consistent traffic at all times
- Using On-Demand Instances



5

Leveraging Different Pricing Models in Amazon EC2

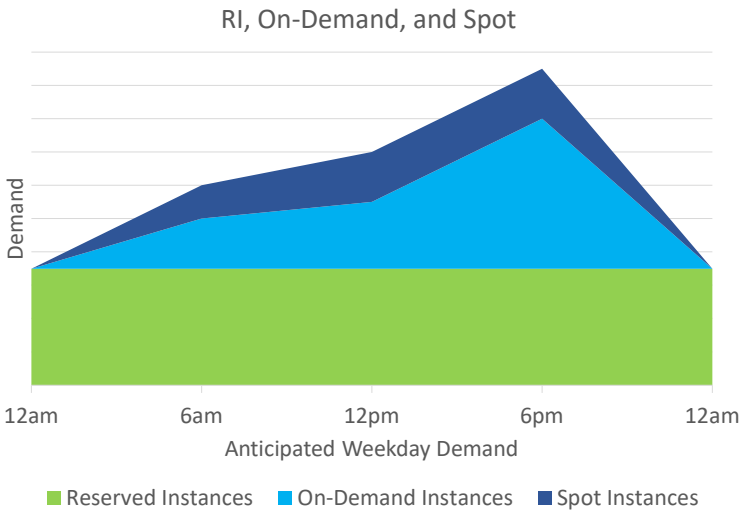
aws training and certification



6

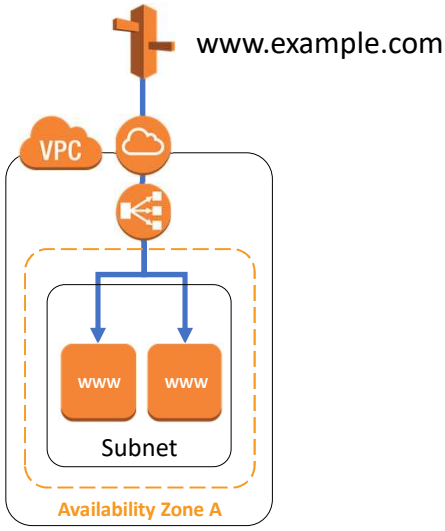
Leveraging Different Pricing Models in Amazon EC2

aws training and certification



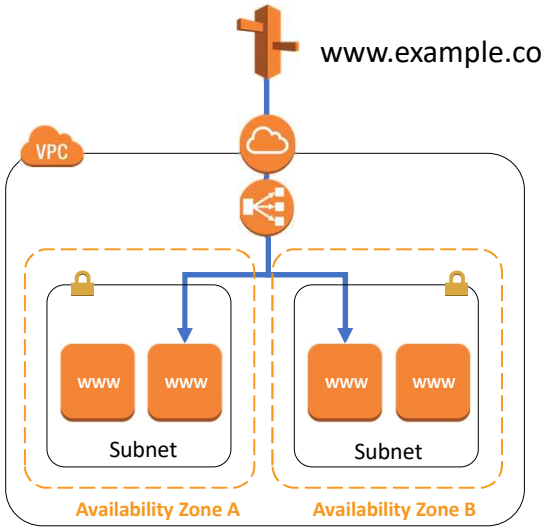
7

How Can You Make This Architecture More Resilient?



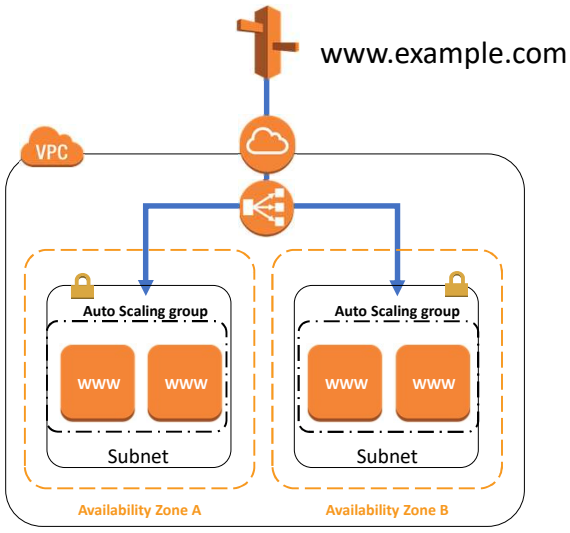
8

How Can You Make This Architecture More Resilient?



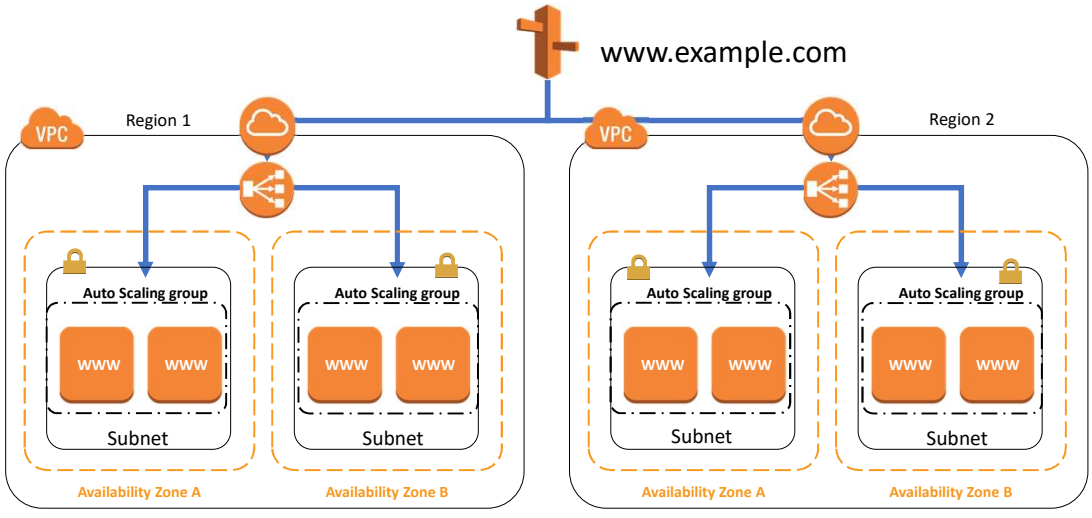
9

How Can You Make This Architecture More Resilient?



10

How Can You Make This Architecture More Resilient?



11

What Type of Instance?

aws training and certification

Your client has a small web application that uses machine learning, to determine if user submitted images contain trademarked logos.

What type of instances would you recommend for the web servers?

What type of instances would you recommend for the back-end machine learning?

Feel free to use https://aws.amazon.com/ec2/instance-types/

12

aws training and certification

Best Practices: A Review

13

10 Best Practices for Building Systems with AWS

aws training and certification

1. Enable scalability
2. Automate your environment
3. Use disposable resources
4. Loosely couple your components
5. Design services, not servers
6. Choose the right database solutions
7. Avoid single points of failure
8. Optimize for cost
9. Use caching
10. Secure your infrastructure at every layer

14

aws training and certification

Thank You

15