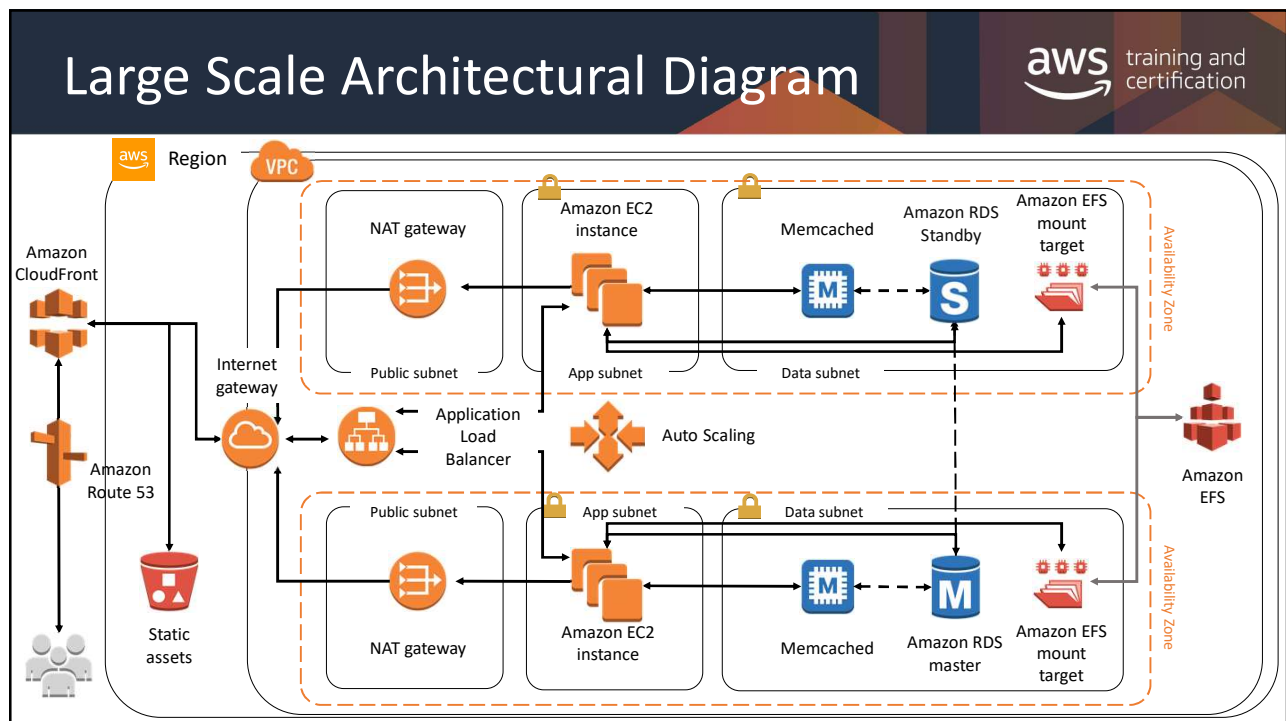


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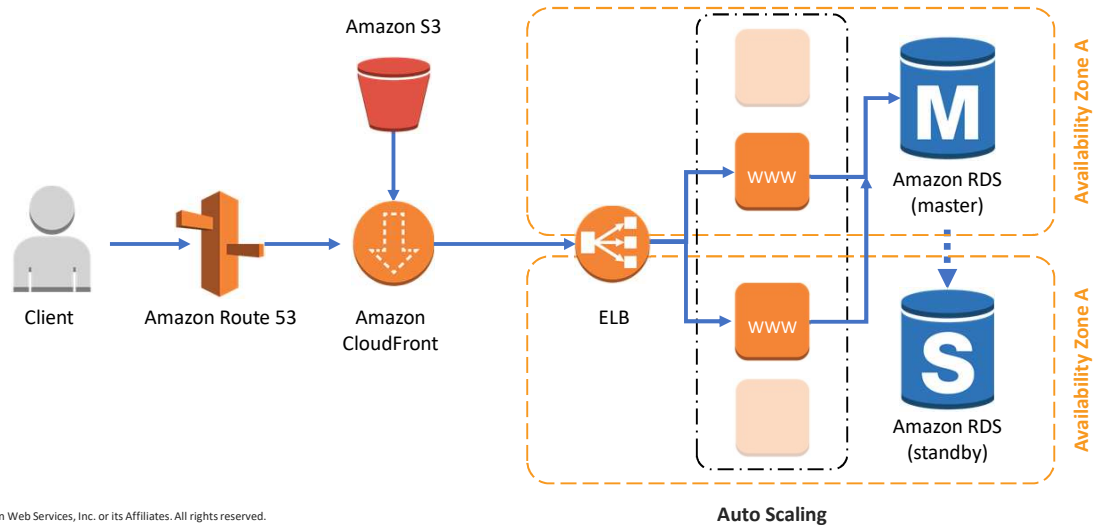
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Re-Architecting

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2

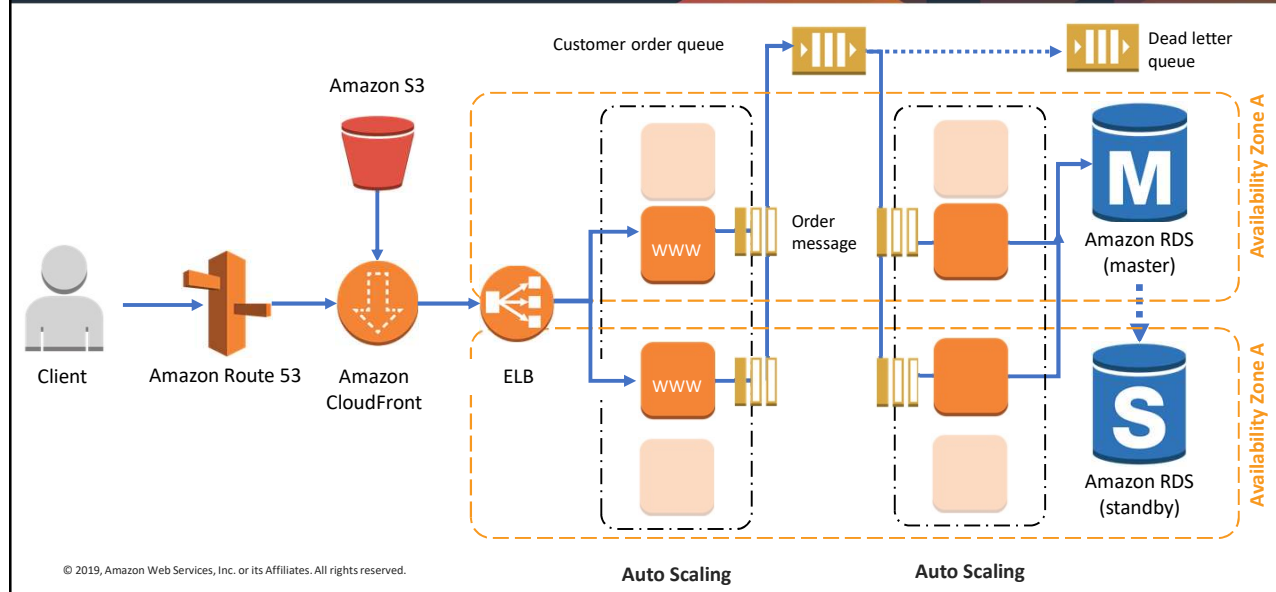
How Do You Make an Architecture Loosely Coupled?



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3

Introduce an Amazon SQS Queue



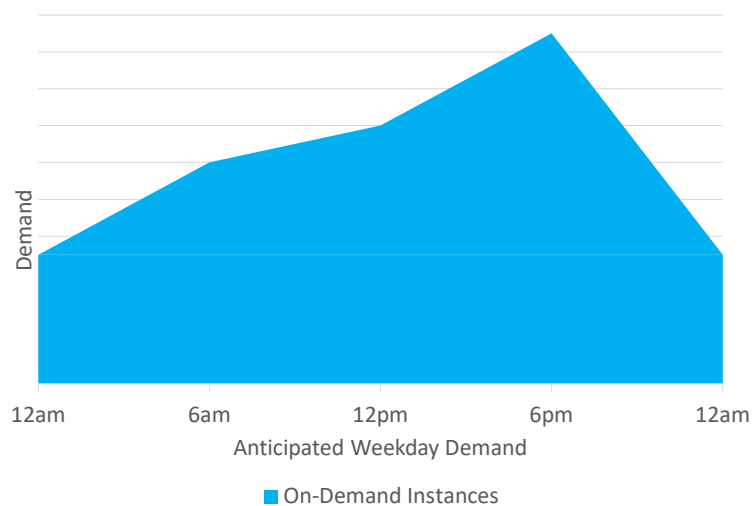
4

How Can You Reduce Cost in This Scenario?



The client has traffic volumes as seen in this graph:

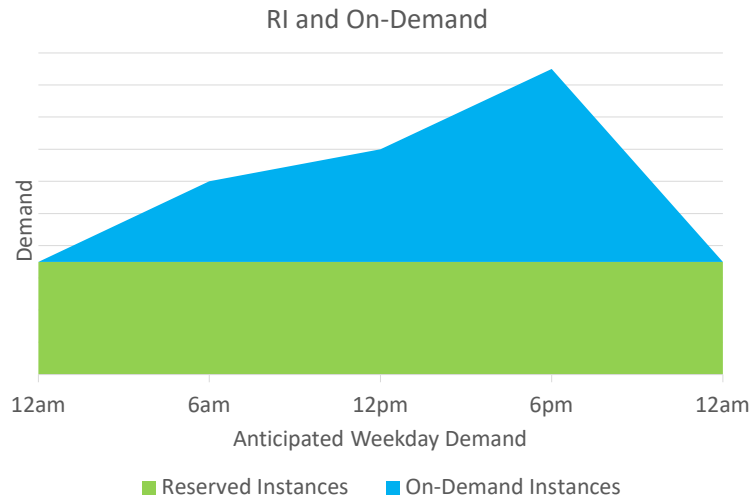
- Spike in traffic during work hours
- Base level of consistent traffic at all times
- Using On-Demand Instances



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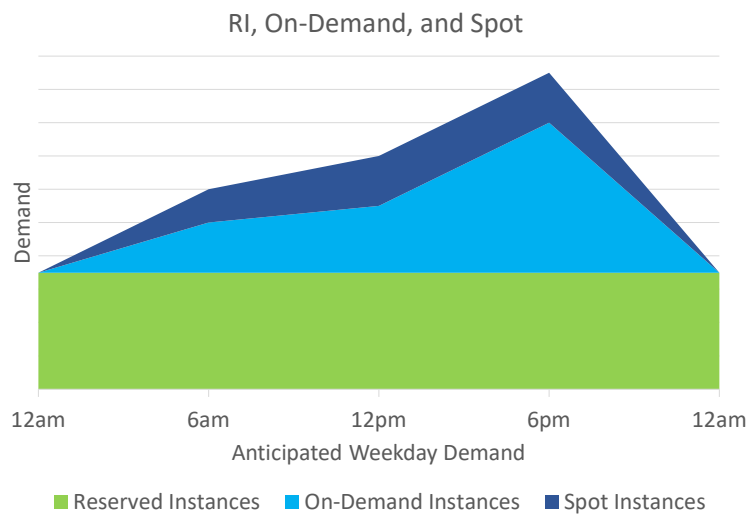
Leveraging Different Pricing Models in Amazon EC2



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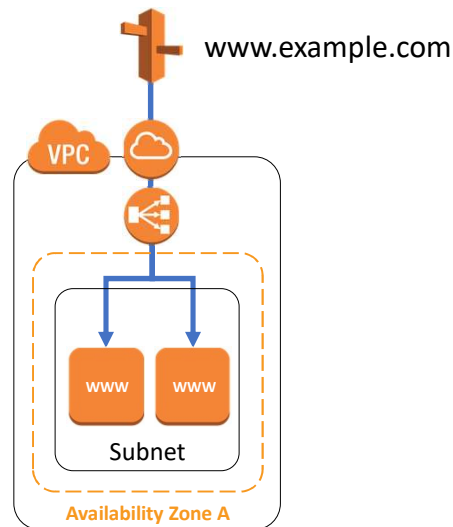
Leveraging Different Pricing Models in Amazon EC2



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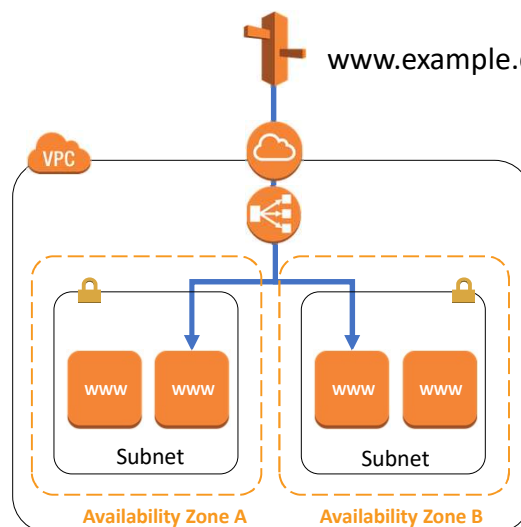
How Can You Make This Architecture More Resilient?



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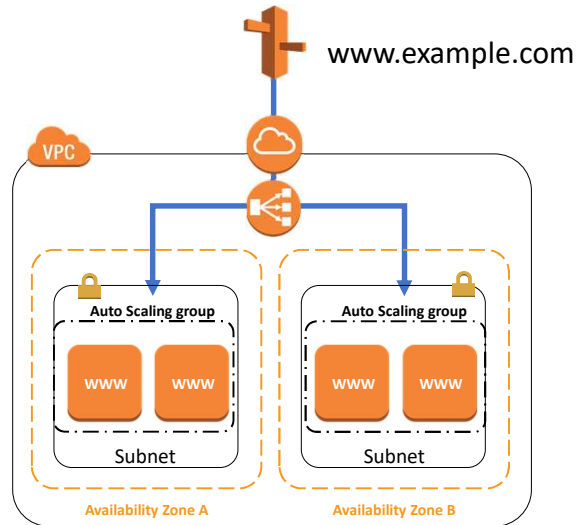
How Can You Make This Architecture More Resilient?



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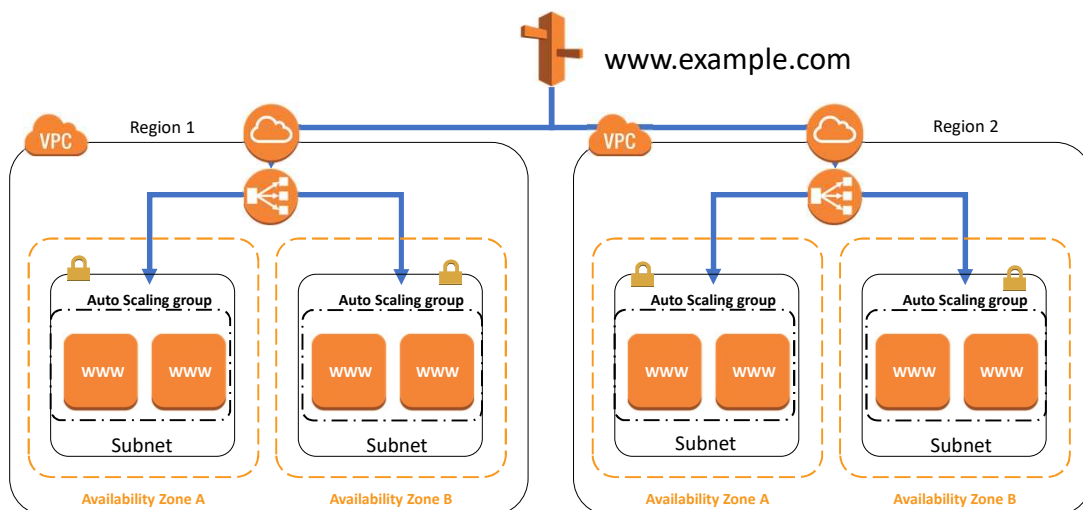
How Can You Make This Architecture More Resilient?



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How Can You Make This Architecture More Resilient?



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What Type of Instance?



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/>

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Best Practices: A Review

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10 Best Practices for Building Systems with AWS



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

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Thank You



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