**ASSIGNMENT - 4**

* **Task 1: Run 2 servers behind ALB**

**A screenshot of a computer

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*Image -1: Security group created for Application Load Balance.*

**A screenshot of a computer

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*Image -2: Two instances of EC2 created.*

**A screenshot of a computer

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*Image -3: Configured web server 1 in first EC2 instance.*

**A screenshot of a computer

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*Image -4: Configured web server 2 in another EC2 instance.*

**A blue and white screen

Description automatically generated**

*Image -5: Browsing application in web server 1.*

**A blue and white screen

Description automatically generated**

*Image -6: Browsing application in web server 2.*

**A screenshot of a computer

Description automatically generated**

*Image -7: Created and configured new ALB.*

**A screenshot of a computer

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*Image -8: Browsing application in web server 1 via ALB.*

**A blue and white screen

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*Image -9: Browsing application in web server 2 via ALB.*

**A screenshot of a computer

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*Image -10: Created target groups.*

**A screenshot of a computer

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*Image -11: Updated Security group for first EC2.*

**A screenshot of a computer

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*Image -12: Updated Security group for second EC2.*

**A screenshot of a computer

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*Image -13: Updated the inbound rules of first EC2 instance.*

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*Image -14: Updated the inbound rules of second EC2 instance.*

* **Task 2: Practice Listener Rules with Lambdas**

**A screenshot of a computer

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*Image -15: Created & configured the first lambda function URL.*

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*Image -16: Created & configured the second lambda function URL.*

**A screenshot of a computer

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*Image - 17: Two target groups created for Lambda function.*

**A screenshot of a computer

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*Image - 18: Created a new load balancer.*

**A screenshot of a computer screen

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*Image - 19: Created new listener rules with proper condition.*

**A close-up of a computer screen

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*Image - 20: Browsing lambda function 1 via ALB slash app1.*

**A screenshot of a computer

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*Image - 21: Browsing lambda function 2 via ALB slash app2.*

* **Task 3: Run web servers behind NLB**

**A screenshot of a computer

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*Image - 22: Created a new target group for NLB.*

**A screenshot of a computer

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*Image - 23: Created a new load balancer.*

**A screenshot of a computer

Description automatically generated**

*Image - 23: EC2 instances registered in the NLB target group.*

**A screenshot of a computer

Description automatically generated**

*Image - 23: Browsing application via NLB.*

**A screenshot of a computer

Description automatically generated**

*Image - 23: Updated the inbound rules of the EC2 security group to allow access only from NLB and no direct access.*

* **Task 4: Run the web servers behind the ALB in ASG**

A screenshot of a computer

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*Image - 24: Created a new load balancer.*

A screenshot of a computer

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*Image - 25: Created a new auto scaling group.*

A screenshot of a computer

Description automatically generated

*Image - 26: Created a new load balancer.*

A screenshot of a computer

Description automatically generated

*Image -27: Created a new load balancer.*

A screenshot of a computer

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*Image -28: Simulating CPU and memory utilization for checking auto scaling.*