**Capstone Summary**

• Setup VPC for Load Balancer, Application EC2 instance and RDS Database - one public and two private subnets.

• Create Load balancer and Auto Scaling Group.

• Create RDS DB instance and DynamoDB table.

• S3 Bucket

• Get domain name and map it with Load Balancer

• Create instance profile that has to be attached to the EC2 instances being launched. Instance profile should have permission to access RDS, DynamoDB and S3 bucket.

• Lambda function to get triggered when an object is uploaded to the bucket

• SNS Topic for Lambda and user email id subscription

**STEP 1: VPC SETUP**A screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedONE INSTANCE LAUNCHED IN PUBLIC ONE LAUNCHED IN PRIVATEA screenshot of a computer

Description automatically generatedRDS MYSQL CREATED AS PRIVATEA screenshot of a computer

Description automatically generatedS3 BUCKET CREATEDA screenshot of a computer

Description automatically generatedA screenshot of a computer

Description automatically generatedHOSTING STATIC WEBSITE IN S3A screenshot of a computer

Description automatically generatedA green screen with black text

Description automatically generatedA screenshot of a computer error

Description automatically generated

DYNAMO DBA screenshot of a computer

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Through bastion host logged in to private ec2 instanceA screenshot of a computer

Description automatically generatedCONFIGURED ALL FILESA screenshot of a computer program

Description automatically generated CONNECTED TO RDS A screenshot of a computer

Description automatically generatedAPPLICAATION STARTS TO RUN A screenshot of a computer

Description automatically generatedALB LOAD BALANCER REDIRECTS TRAFFIC TO PRIVATE INSTANCEA screenshot of a computer

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SECURITY GRP OF PRIVATE INSTANCE ALLOWS TRAFFIC ONLY FROM LOAD BALANCERA screenshot of a computer

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DNS NAME CONFIGURED FOR LOAD BALANCER IN GODADDY A screenshot of a computer

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APPLICATION WORKING, DATA ENTEREDA screenshot of a computer

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VERIFIED IN MYSQLA screenshot of a computer

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LAMBDA SETUP TO TRIGGER WHENEVER NEW OBJECT IS UPLOADED TO S3A screenshot of a computer

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EVENT NOTIFICATIONA screenshot of a computer

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SNS TOPIC A screenshot of a computer

Description automatically generatedMAIL TRIGGERED WHEN NEW OBJECT IS UPLOADED A screenshot of a computer screen

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