Coltpay AWS Architecture

The following AWS services are being used:

- 1. Route 53 handles DNS Routing
- 2. Certificate Manager handles SSL
- 3. Elastic Beanstalk Manages api Application / load balancer and restarts or creates new instances for any downed servers.
- 4. Application: colt-api
 - a. Prod
 - i. Api.coltpay.com
 - ii. Load balanced Currently only using 1 server.
 - b. Development
 - i. dev.api.coltpay.com / dev.coltpay.com
 - ii. Load balanced Currently only using 1 server.
- 5. Database
 - a. RDS Aurora Database
 - i. Colt-cluster-instance-1.cxrqlvyo5nm0.us-east-1.rds.amazonaws.com
 - 1. Login info:
 - a. Colt master database: admin > d9mQNCU5CFXu9yvz
 - b. Colt prod database: prod > 2w5XGmwjUtKMAatC
 - c. Colt old dev database: dev > 9QxKHub2Vet3WpHZ no longer used
 - 2. 35-day recovery
 - 3. Accessible:
 - a. Colt-api > Prod
 - b. RDS Mysql Database new Development
 - i. Colt-api > Development
 - ii. Accessible:
 - 1. Colt-api > Dev
- 6. S3
- a. Coltpay.com / dev.coltpay.com
 - i. Private bucket
 - ii. /dist folder holds the angular frontend
- b. admin.coltpay.com / admin.dev.coltpay.com
 - i. Private bucket
 - ii. /dist folder holds the angular frontend
- 7. Cloudfront
 - a. Coltpay.com
 - b. Dev.coltpay.com
 - c. Admin.coltpay.com
 - d. admin.dev.coltpay.com

Notes:

- 1. All services are in us-east-1
- 2. System Architecture as follow
 - a. Production
 - i. Coltpay.com: Route 53 (dns) -> cloudfront (SSL Termination) -> s3 bucket
 - ii. Admin.coltpay.com: Route 53 (dns) -> cloudfront (SSL Termination) -> s3 bucket
 - iii. api.coltpay.com: Route 53 (dns) -> elastic beanstalk -> load balancer -> ec2 instance
 - b. Development
 - i. dev.coltpay.com: Route 53 (dns) -> cloudfront (SSL Termination) -> s3
 bucket
 - ii. admin.dev.coltpay.com: Route 53 (dns) -> cloudfront (SSL Termination) -> s3 bucket
 - iii. api.dev.coltpay.com: Route 53 (dns) -> elastic beanstalk -> load balancer -> ec2 instance
- 3. In this setup, the front end is served from CloudFront via s3
- 4. The angular front end/admin panel has to be manually uploaded to S3 via drag and drop after the application is built in dev/prod model
- 5. database server holds production database
- 6. Separate RDS that holds development database
 - a. Admin credentials should never be used to prevent accidental data loss
- 7. Services are tagged by the "env" key for cost comparisons
- o All "dev" services can be terminated to save on the monthly bill
 - 1. Github projects setup
 - a. Colt-frontend has coltpay website and user backend UI
 - b. Colt-admin has coltpay admin UI
 - c. Colt-api backend web application. Handles cryptoapis integration. Has cronjobs to check for transactions.
 - d. Colt-wallet current not used has old blockchain api integration.
 - e. Colt-wp holds the coltpay wordpress plugin