Clusterdyne

AWS Cloud Engineers and Solution Architects

We are AWS Engineers with cloud infrastructure build and migration experience and also cloud-first application development experience in Python, Java, Node, and C++. Our clients include startups, financial markets trading firms, and banks.

Capabilities

Serverless and Auto-scaling Web Applications

We have worked with the three predominant AWS application architectures:
- Serverless applications using AWS SAM and the Serverless Framework.
- Elastic Load Balancer backed EC2 microservices
- Containerized microservices orchestrated on ECS/Fargate

We have also worked with multi-tenant enterprise PaaS (Platform as a Service) built on AWS with a continuously updated reference architecture.

Cloud Migration and Builds

We have successfully migrated complex on-premise systems to AWS, including scaled out simulations on spot EC2 instances, VPN and routing configurations, and Virtual Desktops. For a separate client, migrations to Infrastructure as Code using Cloudformation templates on multi-stack deployments, using Puppet for configuration.

Devops, Automation, & Continuous Integration/Deployment

We have used AWS CodePipeline/CodeBuild/CodeDeploy with Jenkins to automate deployments and minimize the time between a code commit and the time its available in production, fully tested. Cloud-ops experience troubleshooting AWS issues, and enhancing observability: monitoring with Cloudwatch, tracing with AWS X-Ray, log analytics on the ELK stack, error tracking with Sentry.

AppQA.io: Full Stack Serverless Applications and APIs

We are able to architect and develop serverless APIs in Python and NodeJS with responsive front ends in ReactJS and Bootstrap frameworks, with Redux for state management. As an example, see http://AppQa.io, an application we built for managing test cases and test runs for mobile app QA teams.

Notable Projects

A selection of some interesting AWS Cloud related projects we have worked on:

- Beta release of dustcluster, an open source command-line shell used for parallel ssh on AWS EC2 clusters and as a general EC2 console replacement.

- Migrated scaled out trading simulation infrastructure from on-prem to AWS for a Chicago-based quantative trading firm (Kapital Trading).

- Migrated six web facing application stacks to Cloudformation with CodeDeploy delpoyments (at Polestar Space Applications) as part of an AWS project.

- Serverless development for an event based ETL pipeline feeding an anlaytics SaaS Application (at an automotive startup)

- Devops project for an AWS ECS rewrite of a client facing fund brokerage related application (at a bank named by Euromoney as "The best overall bank in CEE")

Clusterdyne's mission is to accelerate innovation for its customers by speeding up the adoption of Amazon Web Services, and harnessing the power of its latest services and features as they come to market.

Reach us at ran@clustedyne.com or +44 7425 905 957 for a chat.