

# Andy Boutte

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## Experience

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### REAN Cloud

#### Cloud Architect • January 2017 - Present

Assigned to DoD project as a Cloud Architect to lead the networking, logging, metric collection, and monitoring effort. Collected client requirements, architected solutions, and worked with engineers to automate the deployments.

##### Key Accomplishments:

- AWS log aggregation solution
- Customized RBAC solution for ELK stack
- Hub and spoke transit VPC deployment with backhaul to DoD data center
- Assisted with STIGing, scanning and remediation to meet DoD standards

#### Senior Cloud Engineer • June 2016 - January 2017

Lead an international DevOps team that built the company's first product. Utilized standard DevOps tools including: Chef, CloudFormation, Terraform, git, and Jenkins to create an environment where we collaborated and worked toward an end goal. As the architect, product owner, and technical lead on the project, I balanced time between training resources on the team, unblocking resources on the current tasks, and planning for the future sprints.

##### Key Accomplishments:

- Architect and product owner for RADAR project
- Built ELK deployment (single stack or tri stack) using Terraform, CloudFormation, and Chef
- Automating Kibana dashboard import, index pattern creation, and Logstash configuration file generation
- Custom Logstash plugins: logstash-input-s3zip, logstash-output-s3csv
- Enforced code quality utilizing GitHub webhooks, Jenkins pipeline, and GitHub status check API

### Kibo Commerce

#### DevOps Engineer / Manager • June 2014 - June 2016

Utilized infrastructure as code, configuration management, continuous integration, and delivery to build resilient web application deployments. Responsible for uptime, maintenance, and deployment of production environment for 25+ applications. Participate in 24/7 on-call rotation to meet business SLAs. Continuously revisited processes to build on what had already been improved. Implemented knowledge gained from working with the quality assurance team using load testing to pin point performance bottle necks.

##### Key Accomplishments:

- Created and managed CI / CD pipeline
- Converted team and processes from JSON based CloudFormation to Bazaarvoice's Ruby dsl based CloudFormation
- Multi-year project that migrated applications from colocation to AWS
- Implemented Facebook's open source memcached protocol router (mcrouter) to facilitate a hot migration of a memcache pool between data centers
- Designed development and QA testing environment in AWS
- Database driven cron implementation
- Enforced database schema verification at deployment

### Shopatron

#### Quality Assurance Engineer • June 2013 - June 2014

Oversaw the quality of companies integration toolset software development team which included several PHP and Java applications. Primary responsibilities included maintaining documentation and test case writing so future regression testing could be maintained by team members.

**Key Accomplishments:**

- Created documentation and test cases for several inherited projects that could be handed off to team members
- Provided technical assistance and documentation for testing environment setup
- Gained integral knowledge of companies order management platform was instrumental in the migration to AWS

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## Projects

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### NTP Pool Project

#### NTP Server Operator

The NTP Pool Project is the largest organization of NTP servers in the world and is used by millions of systems worldwide. To give back to the NTP Pool community I donate a server that is apart of the NTP Pool. I also created a turn key solution for deploying a NTP server in AWS.

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## Skills

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### AWS

For the last several years I have been working in AWS. Services that I use on a regular basis include:

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|--------------------------|------------------------|
| • Auto Scaling Group     | • IAM                  |
| • CloudFormation         | • Lambda               |
| • CloudFront             | • Launch Configuration |
| • CloudWatch             | • Route53              |
| • DynamoDB               | • S3                   |
| • EC2                    | • SQS                  |
| • ElastiCache            | • VPC                  |
| • Elastic Load Balancing |                        |

### Architecting Cloud Solutions

Design and build fault tolerant application deployments utilizing DevOps tools including Chef and CloudFormation.

### Virtual Router

Solid experience using Sophos and Cisco CSR for routing, firewall, BGP, and VPNs.

### Lifecycle Management of Deployments

Manage all aspects of production including: EC2, OS, web server software, VPNs, DNS, routing, security groups, and ACLs.

### Colocation to AWS Migrations

Executed a multi year, zero downtime, migration from a colocation in AWS.

### CI / CD

Created pipelines using Jenkins, bash, Ruby, Chef, and GitHub.

### Management of production PCI environment

Migrated a production credit card processing environment from colocation to AWS and facilitated PCI audit.

### Mcrouter

Utilized FaceBooks's open source memcached router to migrate a memcache pool from colocation to AWS with a fall back plan.

### Linux Troubleshooting

Experience using Linux tools to diagnose network and performance issues including Wireshark, tshark, nc, vmstat, slabtop, strace, htop, and iptraf.

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## Certifications

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### **AWS Solutions Architect – Associate**

AWS-ASA-19216 • August 01 2016 - August 01 2018

### **AWS Certified SysOps Administrator - Associate**

AWS-ASOA-5370 • November 29 2016 - November 29 2018

### **AWS Certified Solutions Architect - Professional**

AWS-PSA-4007 • March 16 2017 - March 29 2019

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## Social Links

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- **Github:** <https://github.com/aboutte>
  - **LinkedIn:** <https://www.linkedin.com/in/aboutte>
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