

# Andy Boutte

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## Experience

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### Hitachi Vantara / REAN Cloud

*Cloud Architect • January 2017 - Present*

Assigned to Department of Defense project as a Cloud Architect to lead the networking, logging, metric collection, and monitoring effort. Accumulated client requirements, architected solutions, and worked with engineers to automate the solutions.

**Key Accomplishments:**

- AWS log aggregation solution
- Customized RBAC solution for ELK stack
- Hub and spoke transit VPC deployment based on Department of Defense Secure Cloud Computing Architecture (SCCA) architecture
- Assisted with STIGing, scanning and remediation to meet client standards

*Senior Cloud Engineer • June 2016 - January 2017*

Led an international DevOps team to build 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 company product
- 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
- Created custom Logstash plugins: logstash-input-s3zip, logstash-output-s3csv
- Enforced code quality utilizing GitHub webhooks, Jenkins pipelines, and GitHub status check API

### Kibo Commerce

*DevOps Engineer • December 2013 - June 2016*

Utilized infrastructure as code, configuration management, continuous integration, and delivery to build resilient web application deployments. Responsible for uptime, maintenance, and implementation of the production environment for 30 applications. Participated 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 pinpoint performance bottlenecks.

**Key Accomplishments:**

- Created and managed CI / CD pipelines
- Converted team and processes from JSON based CloudFormation to Bazaarvoice's Ruby dsl based CloudFormation
- Handled 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 - December 2013***

Oversaw quality of the 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
- Obtained 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 Groups    | • IAM                   |
| • CloudFormation         | • Lambda                |
| • CloudFront             | • Launch Configurations |
| • 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**

Professional 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, Test Kitchen, ChefSpec, and GitHub.

### **Management of production PCI environment**

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

### **Mcrouter**

Utilized FaceBook'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.

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## **Certifications**

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### **AWS Certified Cloud Practitioner**

K78SD4Y21MEE1ZWC • August 31, 2018 - August 31, 2020

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

CJZ71YL2CBBE1BKS • August 01, 2016 - March 16, 2019

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

JT501NJCC214QNW0 • November 29, 2016 - October 26, 2020

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

2ZSV18Z2C2QE1K55 • March 16, 2017 - March 16, 2019

### **AWS Certified DevOps Engineer - Professional**

N0JFWJPC1ERQ1297 • October 26, 2018 - October 26, 2020

### **AWS Certified Advanced Networking - Specialty**

NSCTGSYKDJIQQ7S6 • February 22, 2019 - February 22, 2021

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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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