

# Andy Boutte

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## Principal Cloud Architect

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Dedicated Cloud Architect providing over seven years of professional experience in technical leadership, strategic planning, cloud services, data center services, and networking. Thrives on seemingly impossible, challenging projects in a collaborative, fast-paced environment while offering a strong aptitude and demonstrated success in effective team management, data analytics, risk management, and innovative solutions. Highly regarded for his ability to interpret data into actionable information with a critical thinking mindset. Looking forward to accepting a new challenge and work with talented, passionate, dedicated people who are just as motivated to solve the next problem.

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## Experience

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### Perforce

**Cloud Architect • January 2021 - Present**

Cloud Architect on the VCS team that is responsible for all things cloud

**Key Accomplishments:**

- Created and maintained Packer projects for P4D, Hansoft, Perforce Windows Workstation
- Architected CloudFormation building blocks to enable creation of complex layered cloud environments
- Automated Unreal Engine binary creation to speed up demo environment deployments

### Hitachi Vantara

**Principal Cloud Architect • October 2018 - December 2020**

Led requirement gathering, prioritization, scoping, planning, implementation, and delivery of the Hitachi Vantara Cloud Accelerator Platform.

**Key Accomplishments:**

- Architected Istio multi cluster mesh solution to help power Hitachi Vantara Software SaaS strategy
- Designed and implemented a cloud based, distributed, air-gapped, testing environment
- Consolidated 11 scrum teams to have the same cadences and processes
- Integrated SAFe processes into engineering department
- Led initiative for open source license compliance and open source security vulnerability review

### REAN Cloud

**Cloud Architect • October 2017 - September 2018**

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

**Key Accomplishments:**

- Multi-account and multi-region AWS log aggregation solution
- Customized RBAC solution for ELK stack to allow for multi-tenant use cases
- Palo Alto based hub and spoke transit VPC deployment based on Department of Defense Secure Cloud Computing Architecture (SCCA)

**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:***

- Built a scale from 1 to N ELK deployment using Terraform, CloudFormation, and Chef
- Designed hierarchy of dependencies that are required to satisfy customer use cases in an ELK stack. Dashboard -> index -> Logstash Input -> (script, rpm, pip, credentials, user input parameters)
- 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 and configuration management 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.

### ***Key Accomplishments:***

- Managed Multi-year project that migrated applications from colocation to AWS
- Converted team and processes from JSON based CloudFormation to Bazaarvoice's CloudFormation Ruby DSL
- Implemented Facebook's mcrouter, an open source memcached protocol router, to facilitate a hot migration of a memcache pool between data centers
- Architected and implemented development and QA testing environment in AWS
- Database driven cron implementation
- Enforced database schema verification at deployment time

## **Shopatron**

### ***Quality Assurance Engineer • June 2013 - December 2013***

Oversaw quality of the companies APIs 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:***

- Documented manual test cases in TestRail to reduce regression testing time
- Provided technical assistance and documentation for testing environment setup
- Obtained integral knowledge of the different product components, their dependencies, and data stores which was instrumental in the migration to AWS

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## **Skills**

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|----------------------|-------------------|
| • AWS                | • Terraform       |
| • Cloud Architecture | • CloudFormation  |
| • Cloud Networking   | • Ruby            |
| • Cloud Migrations   | • Shell Scripting |
| • Chef               |                   |

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## **Activities and Interests**

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### **Prairie Patch Farm LLC**

#### ***2020 - Present***

Prairie Patch Farm offers llama experiences to our community including: guided llama hikes, llama grams, llama birthday parties, llama weddings, llama zooms.

### **Homelab**

#### ***2008 - Present***

My homelab is based on pfSense, HP ProCurve switches, Unifi WAPs, a Unifi PtMP antenna, several Unifi CPE antennas, Proxmox, Kubernetes and FreeNAS. My homelab includes services I utilize on the day to day and services I experiment

with to further my knowledge and experience. Some of the services I run include: Pi-hole, dokuwiki, Tor Relay, Plex, NTP, Bitwarden, Unifi NVR, SmokePing, Home Assistant, ZoneMinder, PiAware, WeeWX, and Unifi Controller.

## **Weather Station**

*2018 - Present*

I utilize WeeWX to gather weather data from a Davis Vantage Pro2 personal weather station and publish it to Weather Underground.

## **NTP Pool Project**

*2017 - Present*

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.

## **Amateur Radio - W2PPF**

*2020 - Present*

I hold a Technician and General Amateur Ham Radio license

## **SKYWARN®**

*2020 - Present*

After moving from the West Coast to the Midwest I have developed a strong interest in weather. I volunteer for the National Weather Service in the Quad Cities as a SKYWARN® spotter.

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## **Certifications**

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### **Microsoft Certified: Azure Fundamentals**

November 22, 2019

### **AWS Certified Cloud Practitioner**

K78SD4Y21MEE1ZWC • August 31, 2018 - October 26, 2021

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

CJZ71YL2CBBE1BKS • August 01, 2016 - September 16, 2020

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

JT501NJCC214QNW0 • November 29, 2016 - October 26, 2021

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

2ZSV18Z2C2QE1K55 • March 16, 2017 - September 16, 2020

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

N0JFWJPC1ERQ1297 • October 26, 2018 - October 26, 2021

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

NSCTGSYKDJ1QQ7S6 • February 22, 2019 - February 22, 2022

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