**Andrew J Anderson,**

**Enterprise DevOps Architect**

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# Summary of Experience

Accomplished, hands-on, senior dev-ops architect with particular expertise in private and public cloud technologies (Openstack, AWS, Applogic, OpenShift). Strong understanding of building and implementing continuous integration solutions (using combinations of licensed and open-source tools) via automated processes to support dynamic configuration management. Skilled in operational change efforts including migration of critical IT infrastructure to dynamically provisioned cloud services. Lifelong learner who thrives on keeping pace with the latest in technology and contributing to innovation through the creation of patentable ideas. **Passionate about DevOps.**

Founder of myDev-Ops.com

# Technical Skills - Dev Ops

Platform specialist experienced with:

* Container Platforms: **Kubernetes, Docker, Docker SWARM, DockerHub**, Mesos/Marathon
* Container Resources: **Consul, Vault,** Registry, Jenkins, NGINX, SystemD
* Automation frameworks: **Puppet**, **Ansible**
* **RedHat Enterprise Linux**, **CentOS**
* **Openstack** – Trained on Openstack Cloud architecture, deployment.
* Heavy experience with **Git (Gitlab, Github, Gerrit)**
* Continuous Integration Tools: **Artifactory**, **Jenkins, CC,** **Ansible Tower**
* Monitoring Solutions: **Nagios**
* Infrastructure (IaaS): **Openstack**, **Amazon Web Services**, Rackspace, VMware, VBox, Vagrant
* Scripting: **Python**, Shell, PERL, SQL, PHP, Ruby on Rails, Sinatra
* Web: Wordpress, HTML, **REST**, JSON, XML, Apache
* Design: Photoshop, Flash, HTML/CSS
* **Amazon Web Services** (API automation – subject matter expertise converting bare metal machines to virtual machines and then onto cloud technologies) - example - Dell Hardware with Windows Server converted to VMware instance, and finally provisioning into AWS (AMI, AKI) instance complete with S3 attachable storage and variable infrastructure based on performance tuning, seasonality and other constraints.
* Openshift virtualized PaaS provider - useful in automating the provisioning of commodity computing resources for cost and performance efficiency. Used Puppet, Ansible to assist in building automation policies.

# Agile Program Management Skills and Experience

* Extensive experience creating Agile development environments; converting teams from waterfall to agile methodologies
* Excellent verbal and written communication skills
* Strong analytical, organizational and interpersonal skills

# Technical Experience

**IBM, INC.** Somers, NY 2016 to 2017

<http://www.ibm.com>

### Senior Automation Engineer (2016 to Present)

* Technologies used: Amazon’s Alexa, HAProxy, Docker, Docker SWARM, Jenkins, Ansible, Ansible Tower, Registry, Consul, Vault, Bash, Python
* Created a comprehensive deployment environment for developers allowing GIT interaction to initiate workflows responsible for standing up services and reconfiguring reverse proxies which provided access to those services via URL, not port designations. Workflow provided notifications via Slack as well as log aggregation in Splunk. The value in this solution is the interaction from development to production-ready services was limited to checking in/tagging GIT repositories and then accessing the service via URL minutes later. No other interaction was needed by the developers or operations staff.
* Created a chat-ops deployment and interrogation model for developers and operations staff to view and interact with. The use of chat-bots and command invocation (slash commands) was utilized to provide interested parties with a means of interacting with docker swarm (as well as a variety of other commands) without physically accessing the nodes where the swarm was being hosted) using simple chat commands in Slack. This integration removed the need for provisioning access to the underlying systems which greatly reduced the possibility of downtime of systems or services as a result of root access (accidentally deleting a filesystem, etc.).
* Created integration between Amazon’s Echo Dot (Alexa) and Docker Swarm. Voice commands could be used to interact with Docker Swarm and it’s hosted containers/services.

**CISCO, INC.** Raleigh, NC 2015 to 2016

<http://www.cisco.com>

### Senior Automation Engineer (2015 to Present)

* Technologies used: Docker, Docker SWARM, Kubernetes, Mesos/Marathon, Registry, Consul, Vault, Ansible, Bash, Python
* Tasked with building deployment environment for Infrastructure and Platform as a Service for tailored CICD environments based on contemporary Container Management technologies. Container as a Service (CaaS).
* Reduced the time needed to build and deploy application projects by building pluggable templates. templates that include all related settings and artifacts necessary to build custom containers, version control, execute pre and post deployment configuration, and environment specific deployment instructions
* Reduced the amount of interaction needed by developers so that deployment to any container technology was normalized and it is unnecessary to make changes and accommodations for platform-specific nomenclature.

**myDev-Ops.com** South Setauket, NY 2013 to 2016

[http://myDev-Ops.com](http://myDev-Ops.com/)

## (Founded in 2014, offering dev-ops consultation services)

### Solutions Architect

Consulting with companies to build upon their existing software solution build/packaging procedures towards an automated continuous integration model. Assisting in evaluation, implementation and testing of SDLC, version control, automation, infrastructure, and platform tools/services based upon 20+ years of enterprise software experience. Worked with companies such as **Cisco**, UCX, and PTC/Axeda(**iRobot**)

**CA TECHNOLOGIES, INC.** Islandia, NY 1993 to 2013

[http://www.ca.com](http://www.ca.com/)

### Principal Architect Automation and Continuous Integration (2009 to 2013)

* Technologies used: VMWare, AWS, RHEL, Apache, Artifactory, Maven, Ivy
* Directed teams in multiple international locations to leverage VMWare, AWS, and other cloud automation technologies to produce highly efficient, low cost environments using RHEL, Python, Perl, Bash, AWS API, HTML, CSS, and RESTful interface technologies.
* Reduced the time needed to build and deploy solutions for testing from a week or more, to just under a few hours.

**Director, eTrust Consumer Product Development (**2006 to 2009)

* Challenged with architecting and engineering a consumer-targeted security suite capable of protecting personal computing devices from web and media borne operating system threats.
* Implemented department-wide transition from waterfall to an agile software development lifecycle reducing time from inception of new features and development of bug fixes, to customer delivery.
* Successfully released and supported several versions of products simultaneously and packaged solutions to channel partners, service providers, resellers and consumer markets.
* Improved quality and sales of solutions by 25% over a period of one year (based on support queue metrics and revenue reporting).

**Manager, eTrust Consumer Product Development (**2002 to 2006)

* Directed multi-national organization (Australia, India, US) responsible for engineering, testing, and support of CA AntiSpyWare and Personal Firewall
* Collaborated with BMW (Germany) to create IREMA proof of concept (in-vehicle telemetric exposed vi *iDrive*)
* Engineered Patch Management (IPM) software used to distribute patches over a network in a secure manner.

**Network Engineer (**2000 - 2001)

**Integration Architect, Advanced Technology Group (**1997 to 2000)

**Professional Services (Implementation Services) (**1995 to 1997)

# Certifications

* Information Systems Security Professional - CISSP
* Cisco Certifications – CCNP, CCNA, CCDA, CCDP
* Microsoft Certified Professional - MCP

# Awards

* CA CTEX inductee (Council for Technical Excellence – Nominated in 2006, 1 of 50 members out of a company of 13,000) – Recognized for technical innovation, leadership and excellence amongst a voting set of peers.

# Patents

**iTechnology – iGateway/iSponsor,** U.S. Patent Office #20030200319 <http://appft1.uspto.gov/netahtml/PTO/search-bool.html>

# Clubs and Organizations

### Co-founder, "Maker Club"

* Inspired by the worldwide Maker Faire events (http://makerfaire.com) for the purpose of providing an outlet for those colleagues wishing to explore and experiment with the following technologies; Raspberry Pi (http://www.raspberrypi.org), Arduino (http://arduino.cc), 3-D printing, Robotics, Drones

# Education

**PhD**, **Leadership and Organization Change**, Walden University, Expected Graduation Spring 2018

**MBA, Banking and Finance**, Dowling College, 2006

**BS, Computer Science**, SUNY Plattsburgh, 1995