

Ashok Vaddepally

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Professional Summary

- Skilled DevOps Professional with 8 years of experience as Cloud Engineer which includes SCM, Build and Release Management, CI & CD as an iterative process and automation of infrastructure using different tools and cloud services like Azure, AWS and GCP.
- Worked with RedHat OpenShift v4 Container Platform for Docker and Kubernetes, used Kubernetes to manage containerized applications using its nodes, config maps, services, and deployed application containers as Pods.
- Experience in working with Software Automation tools like GIT, JENKINS, MAVEN, and ANSIBLE.
- Implemented AWS Cloud platform and its features which includes EC2, VPC, EBS, AMI, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Cloud Formation AWS Config, Auto scaling, Cloud Front, IAM, S3.
- Expertise in working with Terraform key features such as Infrastructure as a code, Execution plans, Resource Graphs, change automation and extensively used Auto scaling launch configuration templates for launching amazon EC2 instances while deploying microservices.
- Created automated and self-service capabilities for users to onboard into tools such as Jenkins, Artifactory, GitLab, SonarQube, UrbanCode Deploy etc using python, ansible, Jenkins pipelines and rest apis.
- Experience with capacity planning, continuous integration and application deployment using Jenkins, GIT for version control, Maven for Building and Packaging.
- Experience in Automating the Build Infrastructure frameworks for deploying services in dockerized environment using software tools like Jenkins, SonarQube, Maven, Groovy, Job DSL and Splunk.
- Experienced in branching, tagging, and maintaining the version across the environments using SCM tools like GIT, Subversion (SVN) on Linux and windows platforms.
- Worked in an agile methodologies team to deliver an end-to-end continuous integration/continuous delivery product in an open-source environment using tools like ansible and Jenkins.
- Experience in using automation Test frameworks like Junit, Selenium. Working knowledge with Tomcat, JBOSS, Oracle, Web logic, IIS and Web Sphere Application servers for deployments.
- Experience in working with different Enterprise monitoring tools like Nagios, Sonarqube, Splunk and Dynatrace.
- Managed CI/CD infrastructure using Azure DevOps SonarQube, Fortify, and UFT, including patching and security updates on the infrastructure.
- Experience in developing Spark applications using Spark-SQL in Databricks for data extraction and transformation.
- Responsible for estimating the cluster size, monitoring and troubleshooting of the Spark Databricks cluster.
- Expertise in scripting languages like Python, JavaScript, Shell, Bash, and familiar with the Storage, Networking, PowerShell commands and experienced in creating automated PowerShell scripts for web app deployment.
- Excellent communication, leadership, Motivation skills and can proactively learn new tools and advance concepts in IT technologies.

Education:

Bachelor of Technology, Kakatiya University, India
Master's in Engineering, Minnesota State University, Mankato

July 2009 – May 2013
August 2015 – May 2017

Tools and Skillset

Operating Systems:	Windows, Redhat Linux 8, 7, 6.x, UNIX, Centos
Binary Repositories:	Sonatype Nexus, JFrog Artifactory
Programming/Scripting:	Shell scripting, Perl, python, Java, SQL, Ruby, Groovy
Version Control Tools:	GIT, SVN
Build Tools:	Ant, Maven, Gradle
Web Development:	HTML, CSS, XML and JavaScript
Continuous Integration Tools:	Jenkins, TFS, Gitlab
Configuration Management Tools:	Ansible, Ansible Tower, XL-Deploy, IBM UrbanCode Deploy
Bug Tracking:	Rally, JIRA, HPSM, Service Now.
Code Quality:	SonarQube, Veracode, Fortify, Checkstyle
Cloud and Containerization:	AWS, Azure DevOps Docker, Kubernetes, OpenShift
Database:	MySQL, NoSQL, Oracle 10g/11g/12c

Professional Experience

CGI Technologies and Solutions Inc, Lafayette, LA

December 2018 – Present

Role: Senior Cloud Platform Engineer

Responsibilities:

- Hands-on experience in building application CI/CD pipeline using GitLab.
- Automated installation of Jenkins and Urban Code Deploy agent installations on Linux Servers.
- Created multibranch Jenkins pipelines that involves integration of GitHub, Cloudbees, Jfrog and deployed to the various environments via IBM Urban Code Deployment.
- Used terraform to write Infrastructure as code and created Terraform scripts for EC2 instances, Elastic Load balancers and S3 buckets.
- On-boarded and support developers from source control, through build automation, merge resolution, CI, test automation, deployment based on tools usage and policies, standards.
- Adapted and improved the monitoring, alerting, log management, auto-recovery (Prometheus, Splunk, Grafana) to meet our SLA.
- Automated build and deployment process with Jenkins and Maven, eliminating 80% of manual work.
- Experience in developing Groovy/Python Scripts for executing commands on GitLab/Jenkins for build/deploying application.
- Managed Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications, templated Kubernetes manifests, provide a set of configuration parameters to customize the deployment and managed releases of Helm packages.
- Used Docker for packaging applications and designed the entire cycle of application development and used Virtualized Platforms for Deployment of containerization of multiple apps.
- Worked on Container Orchestration tools like Docker & Kubernetes, in-order to build docker image from docker files and run the containers in the docker engine, whereas these clusters are securely managed by Kubernetes.
- Experience in working with application JFrog Binary repository and drove strategy for migrating from Nexus to Artifactory.
- Experience in using Sonar for continuous inspection of application code to detect bugs, code smells, and security vulnerabilities.
- Experience in using Nexus Artifact repository & Component lifecycle management for a given application.
- Administer the DevOps tools such as Cloudbees Jenkins Enterprise, GitLab, Artifactory, Nexus, SonarQube, IBM UrbanCode Deploy and OpenShift.

Environment: Gitlab, GitHub, Jenkins, Azure DevOps, Nexus, Artifactory, UrbanCode Deploy, Docker, Maven, Ant, JIRA, Service Now, SonarQube, Veracode, Fortify, Dynatrace, Splunk, Openshift, Terraform

United Health Group, Eden Prairie, MN

Feb 2018 – December 2018

Role: Senior DevOps Engineer

Responsibilities:

- Supported in building system capacity models, logging and monitoring infrastructure (Dynatrace, Splunk).
- Expertise troubleshooting complex OS, database, network configuration and applications server issues.
- Changing the AWS infrastructure Elastic Beanstalk to Docker with Kubernetes.
- Worked on complete Jenkins plugins and administration using Groovy Scripting, setting up CI for new branches, build automation, plugin management and securing Jenkins and setting up master/slave configurations.
- Deployed and configured Git repositories with branching, forks, tagging, and notifications.
- Written groovy scripts to use multi branch pipeline projects in Jenkins to configure it as per the client's requirements.
- Worked on to setup for the various Jenkins CICD pipeline configurations for all the micro services.
- Built and deployed Docker containers to break up monolithic app into microservices, improving developer workflow, increasing scalability, and optimizing speed.
- Engage continuous improvement of the whole product and platform lifecycle through development design, deployment, operations and refinement.
- Installing, configuring, and administering Jenkins CI tool on Linux machines.
- Developed build and deployment processes for Pre-production environments.
- Implemented the setup for Master slave architecture to improve the Performance of Jenkins.
- Used Jenkins for Continuous Integration and deployment into Tomcat Application Server.
- Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
- Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
- Releasing code to testing regions or staging areas according to the schedule published.
- Participated in all Product Release and Patches.
- Orchestrated XL Deploy for deploying java applications on WebSphere application server.
- Used ServiceNow as ticketing tool for performing day to day incidents and Rally for tracking the workflow.
- Built Pipeline as code for Jenkins Continuous Integration using Groovy.
- Development and consumption of RESTful Web Services using media applications like JSON, HTML, XML.
- Experience with IBM WebSphere Application server, Apache Tomcat web servers for application deployment.
- Participated in Agile ceremonies to include daily scrum, sprint planning, retrospectives and demos.

Environment: GIT, Jenkins, Maven, Docker, XL Deploy, Websphere, Apache, SOAP, ServiceNow, Rally, React Native

Blue Cross Blue Shield, Eden Prairie, MN

July 2017 – Jan 2018

Role: DevOps Engineer

Responsibilities:

- Implementing new project build frameworks using Jenkins & maven as build frameworks tool.
- Implemented AWS solutions using EC2 instances, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups and optimized volumes.
- Coordinate, Reviewed and Supported major releases / technical changes with application owners and middleware organizations.
- Optimized on-call rotations and processes for all supported applications in Service Now Ticketing tool.
- Support and resolve requests and incidents from our customers for the devops tools we support, that come through service now.
- Provide on call production support and troubleshoot during the time of an outage event and resolve the issue.

- Involved in writing parent pom files to establish the code quality tools integration.
- Written chef cookbooks to automate our deployment process.
- Configured openldap-server & openldap-client chef cookbook for centralized login on Ubuntu vms.
- Created monitors, alarms and notifications for EC2 hosts using CloudWatch.
- Automated Linux servers using chef for doing system administration tasks.
- Experienced in Installing, Upgrading, Patching, Configuring and Adminstrating Red Hat Linux.
- Developed front-end content using **React Native**.
- Web tier is developed using **Spring boot** and front-end pages that are developed using HTML5, CSS3.
- Developed client-side validation code using JavaScript and jQuery.
- Troubleshooting and Implementing the resolutions for the technical problems for the Application Servers like memory leak issues, Missing Bea patches on WebLogic server 8.1, WebLogic Server 9.2.
- Managed WebLogic clusters having 14 managed servers on cluster of machines and used the WebLogic Server Administration Console to control production system for specific deployment details.
- Programming in multiple languages on UNIX, LINUX and Windows – Bash, Shell script, Perl Scripts, Python.
- Responsible for setting up cron jobs scripts on pre-production and production systems and ensure production readiness of new technologies/systems.

Environment: GIT, Jenkins, Chef, Maven, AWS, EC2, S3, WebLogic, Putty, Java, Perl Scripts, Python, JIRA, Spring boot

Indi Technology, India
Role: System Admin

May 2013 – July 2015

Responsibilities:

- Provided after-hours on-call support by participating in the on-call rotation.
- Installed new software releases, system upgrades and resolve software-related problems.
- Administered, maintained Red Hat 3.0, 4.0, 5.0, 6.0 AS, ES, Troubleshooting Hardware, Operating System and Network problems and performance issues.
- Deployed latest patches for Linux and Application servers, Performed Red Hat Linux Kernel Tuning.
- Experience in implementing and configuring network services such as HTTP, DHCP, and TFTP.
- Install and configure DHCP, DNS (BIND, MS), web (Apache, IIS), mail (SMTP, IMAP, POP3), and file servers on Linux servers.
- Migrated database applications from Windows 2000 Server to Linux server.
- Linux kernel, memory upgrades and swaps area. Red hat Linux Kickstart Installation and software setup.
- Created users, manage user permissions, maintain User & File System quota on Redhat Linux.
- Created logical volumes and increased the file system in Linux servers.
- Assisted in the preparation, testing, design, and editing of various computer programs.
- Experienced in managing disk quotas and applying RHEL Hardening Standards.
- Managed operating systems using the Nagios Monitoring tool.
- Writing Shell scripts for automation of jobs, system monitoring and error reporting.
- Setup and configured network TCP/IP on Linux environment.
- Carried Deployments and builds on various environments using Jenkins Automation tool.
- Coordinated all the IT projects successfully by resolving release interdependencies and planning release.
- Used Maven dependency management system to deploy snapshot and release artifacts to Nexus to share artifacts across projects.
- Configured and maintained Jenkins to implement the CI process and integrated the tool with Ant and Maven to schedule the builds.
- Worked with Jira, a tool that handles DCR (defect Change Request) MR (Maintenance Request).
- Researched and implemented code coverage and unit testing plug-ins with Maven/Jenkins.
- Maintained build related scripts developed in ANT, Python and shell.
- Performed User Acceptance Testing (UAT) to all the test scenarios before intimating to the business.

Environment: Red Hat Linux 3.0,4.0,5.0, HP-DL585, Oracle 9i/10g, VMware Tomcat 4.x,5.x, Apache Server 2.x, Bash