Veera Yerajerla

DevOps/Automation Engineer - Cisco

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• With 8+ Years of Expertise working as DevOps Engineer & Build/Release Engineer in the areas of Continuous Integration (CI), Continuous Delivery (CD), Configuration Management and Application Deployment management.
• 4+ years of experience with DevOps methodologies in Server provisioning, middleware management, build and deployment automation through tools like AWS, Docker, Jenkins, Rundeck, Chef, GIT etc.
• Strong believer of DevOps Methodologies and working towards as a DevOps engineer position, who can bring an end to end work flow of Continuous Integration, Continuous Delivery and Continuous Deployment process for an organization.
• I have designed and implemented CI / CD pipelines for many java-based applications helping project teams develop, test and deliver software packages fast & reliably.
• Worked with project development teams following Agile & Waterfall methodologies and can design source code branching, release life cycles and CI/CD pipelines based on pace & project deliverables.
• Experience maintaining Jenkins Master, configuring, securing and plugin management areas in Jenkins.
• Capable of writing Chef Recipes to automate operational & Deployment activities, written Docker files, Integrated Chef & Jenkins with Rundeck to provide an end to end cycle of instance provisioning to Application Deployment.
• Written Chef cookbooks and recipes to Provision Several pre-prod environments consisting of Deployment automation, AWS EC2 instance mirroring, Weblogic domain creations, Lambda framework and several proprietary middleware installations.
• Used Terraform and did "Infrastructure as code" and modifying terraform scripts as and when configuration changes happens.
• Certified in AWS Developer - Associate.
• Experience with multiple integration techniques based on service oriented architecture such as java, SOA, Web services like (REST APIs, SOAP) and other communication interfaces like HTTP, HTTPS, and TCP.

Willing to relocate: Anywhere

Work Experience

DevOps/Automation Engineer

Cisco - San Jose, CA
February 2017 to Present

Responsibilities:
• Developed automation Script in Bash and Python that can be used to create a release branches for every microservice components product.
• Setup various jobs in the Jenkins for the commit based builds as well as nightly builds.
• Hands-on Experience in writing Bash script for building deployment pipelines.

• Developed BASH scripts to redact sensitive data from Apache access and error logs using a SED expression, deploy WAR files to environments in parallel.
• Experience in Deploying Apache Tomcat web server, IIS Server, Oracle web logic.
• Responsible for setting up from scratch and maintaining automated (CI/CD) Pipelines for multiple apps.
• Integration of Automated Build with Deployment Pipeline.
• Wrote a Playbooks to install node, git, docker, java, sonar qube, Awscli on Jenkins slave for building the application part of CI/CD.
• Expertise in using build tools like MAVEN, ANT and GNU Make.
• Wrote edited and maintained Make files and shell script support for multiple software teams.
• Written chef recipes to perform middleware binary Installation and Configuration tasks involving jdk, Tomcat, WebLogic binaries installation.
• Working on Deployment of all Microservices in AWS and Open Stack.
• Developed a automation scripting in Shell and python that can create a release branches by using Jenkins enterprise.
• Worked with various custom resources, created roles & environments and using chef handlers for various auto kickoff requirement jobs.
• Written Several Chef cookbooks from scratch consisting of recipes that can Provision several pre-prod environments consisting of Weblogic domain creation, Deployment automation, instance mirroring, and several proprietary middleware installations.
• Written Unit test cases for chef recipe testing using test kitchen, foodcritic etc.
• Setting up chef repo's (local & remote) working with both hosted and standalone server versions.
• Performed tasks like bootstrapping nodes to executing run lists to mirror the new nodes to web or application servers and to run deployments against newly added nodes to the clusters.
• Written several Docker files to create tomcat along with required version of jdk container images.
• Worked with Docker Trusted Registry as repository for our docker images and worked with Docker container networks.
• Implementing new projects builds framework using Jenkins & maven as build framework tools.
• Designed and Developed server monitoring with CloudWatch and automated log archiving to S3.
• Experience with CloudFront, Glacier, Route53, SNS, RDS, AWS Config, LAMBDA, Cloud Formation.
• Cost cutting techniques applied with own written CloudFormation Stacks by using AWS, Auto Scaling Scheduled Actions and Lambda for shutting-down and starting-up the instances based on the requirement or need.
• Used security groups, network ACLs, Internet Gateways, NAT instances and Route tables to ensure a secure zone for organizations in AWS public cloud.
• Created Wiki pages and educated the team about the automation and branching strategies to be followed.
• Used Jfrog Artifactory as Artifact Repository manager to upload the artifacts after build is success.
• Extensive Knowledge of puppet as Configuration management tool, to automate repetitive tasks, quickly deploy critical applications, and proactively manage change.
• Good exposure to the APM tool like Datadog.
• Migrated applications to the AWS cloud.

Sr. DevOps Engineer
Walmartlabs - Sunnyvale, CA
January 2016 to February 2017

Responsibilities:

• Written Several Chef cookbooks from scratch consisting of recipes that can Provision several pre-prod environments consisting of Weblogic domain creation, Deployment automation, instance mirroring, and several proprietary middleware installations.
• Written chef recipes to perform middleware binary Installation and Configuration tasks involving jdk, Tomcat, WebLogic binaries installation.
• Install and configure Thingworx on ubuntu server with chef cookbook to provide dashboards for end users.
• Open shift virtualized PaaS provider - useful in automating the provisioning of commodity computing resources for cost and performance efficiency.
• Responsible for configuring and maintaining all pre-prod environments consisting of complex middleware environments with several variations of Tomcat installations consisting of several instances in each installation.
• Giving support for JBoss Compute servers in One Ops cloud.
• Worked with various custom resources, created roles & environments and using chef handlers for various auto kickoff requirement jobs.
• Written Unit test cases for chef recipe testing using test kitchen, foodcritic etc.
• Setting up chef repo's (local & remote) working with both hosted and standalone server versions.
• Performed tasks like bootstrapping nodes to executing runlists to mirror the new nodes to web or application servers and to run deployments against newly added nodes to the clusters.
• Written several Docker files to create tomcat along with required version of jdk container images.
• Worked with Docker Trusted Registry as repository for our docker images and worked with Docker container networks.
• Good hands on with container orchestration tools like Kubernetes, experience with Red Hat open shift enterprise Platform as a Service product.
• Analyzing in working with Ansible, wrote many playbooks to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
• Worked on Ansible and Ansible Tower to automate repetitive tasks, to deploy critical applications quickly, and proactively manage the changes.
• Experience in creating network policies for Docker containers using Docker Weave. Worked on container orchestration tools such as Docker swarm, Mesos, and Kubernetes.
• Setup a test environment of cutting edge container technologies including Docker, Apache mesos, Marathon and Prometheus for monitoring.
• Dockerized several services like SSH daemon service and familiar with several docker command line utilities.
• Utilizes Several Docker best practices to create base images from scratch and to create clear, readable and maintainable clean docker files.
• Used Kubernetes - an open-source platform for automating deployment, scaling, and operations of application containers across clusters of hosts, providing container-centric infrastructure.
• With Kubernetes, we could quickly and efficiently respond to changes on demand. Deployed our applications quickly and predictably.
• Worked with several AWS services like Lambda framework, EC2, EBS, S3, VPC, Cloud Formation and Cloud Watch.
• Responsible for creating on-demand EC2 instances.
• Developed different environments of different applications on Google cloud by provisioning Kubernetes clusters on GCE instances and GKE using Docker, Ruby/Bash, Python.
• Creating Custom AMI's and AMI tags, modified AMI permissions.
• Working with Security Groups, configuring Inbound /Outbound rules, creating and importing Key Pairs.

• Used AWS S3 service as Build Artifact repository to created release based buckets to store various modules/branch based artifact storage.
• Used Amazon S3 to backup database instances periodically to save snapshots of data.
• Used Amazon Route53 to manage DNS zones and give public DNS names to elastic load balancers and IP's.
• Created Python Scripts to Automate AWS services which include web servers, ELB, Cloud front Distribution, database, EC2 and database security groups, S3 bucket and application configuration, this Script creates stacks, single servers or joins web servers to stacks.
• Used Cloud Watch logs to move application logs to S3 and create alarms raised by applications.
• Managing Linux, VMware and AWS/VM's.
• Configured AWS Identity and Access Management (IAM) Groups and Users for improved log authentication.
• Ability to create scripts using Azure PowerShell during for automation and build process.
• Good working experience in azure Logic apps, Service Bus, Document DB and SQL Database, Data warehouse.
• Working on 'proprietary containerization tool system to automate deployment, scaling and management of mobile and web containerized applications.
• Setup various jobs in the Jenkins for the commit based builds as well as nightly builds.
• Created Wiki pages and educated the team about the automation and branching strategies to be followed.
• Implemented code review tools like Gerrit and Emma. Set up cronjobs for automating the logs archiving and disc cleanup.
• Implementing new projects builds framework using Jenkins & maven as build framework tools.
• Implementing a Continuous Delivery framework using Jenkins, Chef, Maven and Nexus in Linux environment.
• Used Jfrog Artifactory as Artifact Repository manager to upload the artifacts after build is successful.
• Backup files and archive files in Glacier.
Environment: Git, Jenkins, Chef, Maven, Nexus, WebSphere, Ant, Putty, Confluence, Gerrit, Emma, Jira Unix/Linux, Windows, Oracle Database.

DevOps & Release Engineer
Infrostretch Corporation - Santa Clara, CA
January 2014 to December 2015

Responsibilities:
• Responsible for versioning the source code, releasing binary files, creating and applying labels on source files and release files.
• Directed and configured Jenkins for overseeing regular build, test and Deploy chain, SVN/GIT with DevOps testing production team for every week releases.
• Led Hudson continuous integration server installation and configuration for all GIT Repositories
• Automated application packaging and deployment
• Managed Ubuntu 8.10 staging environments
• Managed 190 GIT repositories with a version control wrapper tool REPO.
• Established coding standards and enforced them through automated tools
• Configured multiple Windows and Linux slaves for Hudson master to distribute the load across a Farm of machines
• Applied the test driven development methodology while developing which yielded cohesive, loosely coupled and tested code

• Educated team about continuous integration and automated testing practices and supported them throughout development
• Configured Hudson to Implement Nightly builds on daily basis and generate change log that includes changes happened from last 24 hours.
• Integrated Testing Tools like Junit, Emma and Coverity in Hudson which provide unit testing and Code coverage with detailed graphical reports
• Connected continuous integration system with GIT version control repository and Continually build as the check-in's come from the developer
• Good Knowledge with mobile telecommunication technologies and have hands-on experience with wireless mobile device operating systems: Android, WinMobile
• Resolved dependency issues between different modules in android build system by configuring make files.
• Experience in and demonstrated understanding of source control management concepts such as Branching, Merging, Labeling/Tagging and Integration.
• Worked on build tasks using Maven, Ant, Gradle and GNU Make files and worked with development team to migrate Ant scripts to Maven.
• Good understanding of the principles and best practices of Software Configuration Management (SCM) in Agile, scrum, and Waterfall methodologies.
• Created Multiple ANT and Shell (bash) scripts for build automation and deployment.
• Defined branching and merging strategies
• Strong in C and working with Gcc and cross compiler tool chains.
• Documented the SCM process and policies of the company and recommended some process changes.
• Enabling the build process by using the Visual studio, specifying the maximum number of builds running on the TFS.
• Responsible for writing the Release Notes, documenting all useful info about the release: software versions, changes implemented in the release, Defects fixed, Labels applied etc
• Deployed and configured Tomcat application server to host the wiki website.
• Coordinated software development teams and QA teams on issues and solved the problems.
• Developed Unified Automation Framework to have code reusability across different teams and applications.
• Mentored junior Java developers through Eclipse, ANT, GIT, and general Java issues and documented knowledge in several in-house wiki pages.

Build and Release Engineer
Sun Power Systems - Richmond, CA
June 2012 to December 2013

Responsibilities:
• Used SVN as version Control
• Supported Java Project code base and used Maven as Build tool.
• Used Ansible for communication with the machine through a JSON protocol.
• Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using Subversion (SVN) source control
• Migrated Ant build.xml files to Maven POM.xml
• Used Bash as scripts language for Build Automation.
• Performed software configuration/release management activities for three different java applications.
• Experience in working with Selenium IDE and Selenium Web Driver using testing.

• Have very good exposure and experience on web development experience using tools and automation testing.
• Experience working with production servers at multiple data centers.
• Monitor progression of releases and keep them on track for delivery on planned release date.
• Maintained Ubuntu build machines and always keep them updated with latest security fixes.
• Managed Disk space and rebooted builds slaves as regular schedule to keep the health of build slaves
• Used Jenkins as CI tool and added 20 Build slaves. Labeled Slaves so that load can divided and branches get their own priority.
• Managing Amazon Web Services (AWS) infrastructure with automation and configuration.
• Set up Elastic Load Balancers for different applications to ensure high availability of
• Applications.
• Built Jenkins jobs to create AWS infrastructure from GitHub repos containing code.
• Migrated VMWARE VMs to AWS and Managed Services like EC2, S3 Bucket, Route53, ELB, EBS Etc with Chef Cookbooks/Recipes.
• Installed Nagios to keep track of the system status like uptime, system load, disk usage and send notifications to team when necessary.
• Worked on the .NET framework application by using the Internet Information Services IIS and deploying the files in the framework applications.
• Created branches and tags in Version control
• Merged and resolved conflicts using SVN and helped developers to work with version control tools
• Documented all the process and to do list for improvements
• Worked with Team and supported on-call rotation for pushing the releases in timely manner

Linux/ System Analyst

IBM - Hyderabad, Telangana
June 2008 to December 2011

Responsibilities:
• Installation and Configuration of RedHat Linux OS, CentOS, Fedora, Ubuntu and performed tasks like, troubleshooting connectivity, disk space, CPU memory consuming and application status.
• Responsible for Connectivity issues among various Servers and various software components.
• Troubleshooting system OS, hardware, software and networks.
• Worked on installation and configuring VMware/ESX Servers for virtualization.
• Installing and Managing ESX and ESXi Servers on HP&CISCO hardware.
• Regular updates of drivers and firmware's on all ESXi hosts.
• Configuring network services like NFS, DHCP, DNS, SAMBA, FTP, HTTP, TCP/IP, SSH and Firewall that runs on Red Hat Linux, SunSolaris, AIX.
• Software Product Developer in Linux kernel IP Failover product in a Cluster environment (Apache/ NFS).
• OS Kernal Software Developer on UNIX Clustering UnixWare 7.x (Compaq Nonstop Cluster).
• Developed a Linux performance tool "netstar" (C) that monitors TCP/IP IEEE 802.x network activity at a per-process level for system and support analysts.
• UNIX generalist in many parts of the kernal (platform specific subsystems, TCP/IP, IEEE 802.x, UDP, DNS, DHCP, VM, streams, IPC, process management, device driver changes for SCSI-2, dual SCSI, tape and disk devices, and asynchronous controllers), commands, scripts, Veritas VxFS, Veritas, volume manager, libraries, porting activities, product builds and packaging. Gcc, compiler, assembler skills.
• Worked with LVM for the management of Volumes including creation of physical and logical volumes on Linux.

- Configured and administered Tomcat and FTP for Production servers.
- Supported Unix/Linux servers running Oracle and MySQL databases.
- Responsible in setting up of user and group login ID, printing parameters, network configuration & password.
- Developed Shell scripts for acquiring information about various Linux servers
- Troubleshooting TCP/IP network problems for the clients.
- Involved in performing backup repository, creating folder and granting user access privileges.
- Administration and configuration of SSL and Apache WebServer.
- Worked on the configuration of server monitoring tool like Nagios.
- Monitored system log files and messages for errors of the hardware and software failure.
- Monitored Network traffic using packet analyzer tools such as TCP/IP dump, Wireshark
- Assisted networking team to assign the IP address for new physical and virtual servers.
- Installation, configuration of LAMP server on Debian and Centos.

Education

Bachelors in Electronics and Communication Engineering in Electronics and Communication Engineering
JNTU

Skills

JENKINS, ANT, MAVEN, TOMCAT, LINUX

Additional Information

TECHNICAL SKILLS:

CI Tools: Jenkins ,Ansible, Bamboo
Core quality Tool: Sonarqube
Build Systems: Maven, Ant, gradle.
Networking: TCP/IP, NFS, Telnet, FTP, DNS, DHCP, NAT, HTTP.
Bug Tracking Tool: JIRA, Rally.
Version Control: Git, SVN, Perforce
Application & Web Servers: Weblogic, Apache Tomcat, Jboss, Apache, IIS
Configuration Management: Chef, Puppet
Cloud Services: AWS,GCE, OpenStack
Containerization Tools: Docker
Virtualization Platforms: Vagrant, Virtual Box, Bitbucket ,VMware.
Scripting Languages: C, Java, Shell, Ruby, Python.
Monitoring Tools: AWS, CloudWatch, ELK Stack.
Logging: Logstash, Splunk
Operating Systems: Linux, Unix, CentOS, Ubuntu, Windows.