**Summary:**

* With 8+ Years of Expertise working as DevOps Engineer, Build and Release engineer and System Analyst in the areas of Continuous Integration (CI), Continuous Delivery (CD), Configuration Management ,Server Configuration, troubleshooting 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, Ansible, Jenkins(CI CD), kubernetes, Chef, Openstack, GIT etc.**
* Strong believer of DevOps Methodologies and working towards a core 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, deploy, 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.
* Experience in writing the script in Bash and python for Automation process of release branches of Components.
* Wrote a Playbooks in YAML files to install the respective softwares on Jenkins slave.
* Deploy Applications and products in AWS and Openstack.
* Capable of writing **Chef** Recipes to automate operational & Deployment activities, written **Docker** files, Integrated **Chef** & **Jenkins** with Rundeckto 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 and several proprietary middleware installations.
* Certified in AWS Developer Associate.
* Experience with multiple integration techniques based on service oriented architecture such as **SOA**, Web services (**REST APIs, SOAP**) and other communication interfaces like **HTTP**, **HTTPS**, and **TCP**.

**TECHNICAL SKILLS:**

CI Tools : Jenkins , Ansible.

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.

Application & Web Servers : Weblogic, Apache Tomcat, Jboss, Apache, IIS

Configuration Management : Chef, Puppet, Ansible

Cloud Services : AWS,GCE, OpenStack, Azure.

Containerization Tools : Docker, Kubernetes.

Virtualization Platforms : Vagrant, Virtual Box, VMware.

Scripting Languages : Groovy,powershell, Shell,l,Ruby, Bash,Python.

Monitoring Tools : AWS, CloudWatch,Pagerduty, ELK Stack.

Application monitoring tool : Datadog

Logging : Logstash.

Languages : C, C++ and Java, python

Operating Systems : Linux, Unix, CentOS, Ubuntu, Windows.

PROFESSIONAL EXPERIENCE

**Cisco, San jose, CA Nov’16- Current**

## DevOps/Automation Engineer

**Responsibilities:**

* Developed automation that can be used to create a release branches for every 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.
* Installed VMware vSphere 4 and created virtual machines on ESX 4.0 Servers. Created standard images and deployed servers from the images.
* Used Vagrant, Oracle Virtual Box, VCloud, VMware ESXi, Ansible for deployment automation and build release.
* Developed automation scripting in Python and Shell using Ansible to deploy and manage Java applications across Linux servers With Kubernetes, I could quickly and efficiently respond to the changes on demand. Deployed our applications quickly and predictably.
* Integrated SonarQube with the Jenkins in the automated setup.
* Has successfully lead the efforts to introduce and evangelize the new Microservices.
* Implemented new plugins like Blue Ocean for more effective usage of Jenkins to monitor the stages from development to live.
* Build totally automated Jenkins Architecture as IAC (Infrastructure as Code) with SonarQube, Maven, Docker build process.
* Integrated SonarQube with the Jenkins in the automated setup.
* Integrated Jenkins with different code quality analysis and Review tools like Sonarqube, Cobertura, Jacoco.
* Experience working on Clusterization and Containerization with PaaS, SaaS and cloud platforms. Analyze AWS based product for defects and enhance automated testing to prevent regression
* Developed different environments of different applications on AWS and openstack by provisioning Kubernetes clusters on GCE instances and GKE using Docker, Ruby/Bash, Python.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform). Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Developed Python scripts for patch management of servers, also for deploying the code manually to different environments and updating the team after the completion of build successfully.
* Experienced in Provisioning of PAAS &SAAS Virtual Machines and Web\Worker roles on Microsoft Azure Classic
* 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.
* Created and modified HTML, PHP, JQuery, JavaScript, web pages, also Writing restful APIs and Http Server in Node.js.
* Deployed AWS Elastic beanstalk applications developed with Java, PHP, Node.js, Python, Ruby, and Docker on Apache and IIS.
* Deploy Virtual managed services on AWS and Openstack.
* Debug and resolve Pre-Post OpenStack deployment failure.
* Created playbooks for OpenStack deployments and bug fixes with Ansible.
* Worked on installing, configuring and deploying Openstack solutions
* Worked with several **AWS** services like EC2, EBS, S3, VPC, Cloud Formation and Cloud Watch.
* Responsible for creating on-demand **EC2** instances.
* 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 repository to created release based buckets to store various modules/branch based artifact storage.
* Created a Continuous Integration workflow pipeline, delivering entire application VPC’s using Terraform.
* Designed AWS CloudFormation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications. Used Cloud Front to deliver content from AWS edge locations to users, allowing for further reduction of load on front-end servers. Managed and analyzed the petabyte-scalable data using AWS Redshift cluster.
* Expertise in Amazon AWS Cloud Administration which includes services: EC2, S3, EBS, VPC, ELB, Route 53, Auto scaling, Security Groups, Redshift, and Cloud Formation.
* Created a Continuous Integration workflow pipeline, delivering entire application VPC’s using Terraform with preloaded and preconfigured service layers such as Rancher, Kubernetes, and Puppet Enterprise.
* Implement Infrastructure as Code utilizing Terraform for AWS resource provisioning and management (based on immutable compute resources).
* 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, AutoScaling 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.
* Extensive Knowledge of puppet as Configuration management tool, to automate repetitive tasks, quickly deploy critical applications, and proactively manage change.
* Implementing new projects builds framework using **Jenkins & maven** as build framework tools.
* Implementing a Continuous Delivery framework using Jenkins, Chef, Maven andNexus in Linux environment.
* Responsible for monitoring and building tools to help the team to debug issues using Grafana, Kibana and PagerDuty.
* Involved in the development of microservices for all the 4 models using combination of Python.
* Also Used Artifactory Repository managers for Maven Builds.
* Good exposure to the APM tool like Datadog.
* Migrated applications to the **AWS** cloud.

Environment: Git, Jenkins Enterprise, Chef, Maven, Nexus, AWS, Openstack, WebSphere, Ant, Ansible, Jira, Rally,Unix/Linux.

**Walmartlabs, Sunnyvale, CA**. **August’14- Oct’16**

## DevOps/Build & Release Engineer

**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.
* Supporting the application to Migrate to Open shift by provisioning various open source dB's like orient DB, Mongo DM and Redis.
* Supporting on PHP based application running on Drupal Content management system.
* implemented Jenkins continuous integration instances, saving countless hours of manual effort while assuring repeatable, auditable, and tested delivery of high-quality software.
* Jenkins automations for Middleware, ERM, CRM, Data Warehousing, and other business applications, including: TIBCO, SAP, Salesforce, Siebel, Informatica, QlikView, Java, Node.js, Python, and Ruby applications.
* Automated application packaging and deployment.
* Implemented continuous Integration with Golang micro-service, SonarQube and hooked it to a Jenkins pipeline script.
* Documented the entire build and release engineering process and provided on call support.
* Managed Ubuntu 8.10 staging environments.
* Experience in using Ansible to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Worked on Team Foundation Software (TFS), Visual Source Safe (VSS) for maintaining the integrity of the project and the code synchronization.
* Developed PowerShell scripts to automate the project creation, setting permissions for users, groups in TFS
* Configured various jobs in Jenkins for deployment of Java based applications and running test suites in Cucumber and checking coding standards in SonarQube.
* Developed strategy to move test cases Cucumber for existing and new test cases.
* Worked on Code Quality Control tools like Sonar, HP Fortify and testing tools like Selenium, Cucumber and dealt with testing frameworks like JUNIT, Cobertura, Jacoco.
* Performed functional testing to identify various critical points in the application and automated it by using Selenium web drive.
* Developed new Automation test cases using selenium WebDriver and TestNG.
* Implemented packer based scripts for continuous integration with the Jenkins server and deployed packer based scripts on to the Amazon ec2 instances.
* Managed 90 GIT repositories with a version control wrapper tool **REPO**.
* Automate the release process and jobs by using shell and python scripts.
* Build the regressions and create the pipe line.
* 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.
* Implemented SonarQube tool for source code metrics as part of build and release processes.
* Giving support for JBoss Compute servers in One Ops cloud.
* Automated application configuration and deployment for both WebSphere and tomcat – vmware, TCServer Application Servers.
* Support for implementing redundant monitoring hosts using Nagios, tools like Splunk or Gomez for log management.
* Used Nagios for monitoring the backend servers.
* Installed, tested and deployed monitoring solutions with Splunk services.
* CICD tools like Jenkins/Bamboo to create jobs for builds and deployments, installing plugins for new enhancements, creating pipelines, working on groovy scripts, using extended choice parameters for multiple selection options, scheduling tasks. Administration activities like installing, configuring, access provisioning, LDAP configuration, Jenkins slave configuration, blue ocean.
* Manage the configurations of all the servers using Chef; configured Jenkins builds for continuous integration and delivery (CI/CD). Automated web server content deployments via shell scripts.
* Worked in DevOps group running Jenkins in a Docker container with EC2 slaves in Amazon AWS cloud configuration. Also gain familiarity with surrounding technologies such as Mesos (Mesosphere) and Kubernetes.
* Used Apigee to manage API proxies and provision backend services to the developers.
* Currently installed Chef Server and clients to pick up the Build from Jenkins repository and deploy in target environments (Integration, QA, and Production).
* Applied the test driven development methodology while developing which yielded cohesive, loosely coupled and tested code.
* Improved the performance of SQL scripts by using ORM methodology.
* Educated team about continuous integration and automated testing practices and supported them throughout development.
* Using UFT (Unified Functional Testing) and/or Selenium Web driver, TestNG and JUnit for most of the regression automation test suites.
* Integrated Testing Tools like **Junit, Emma and Coverity in Hudson** which provide unit testing and Code coverage with detailed graphical reports.
* Implemented unit testing framework driven using JUnit and Cucumber Set up Jenkins master/slave to distribute builds on slave nodes.
* Connected continuous integration system with GIT version control repository and Continually build as the check-in’s come from the developer.
* Ability to create scripts using Azure Shell during for automation and build process.
* Implement deploy and configure Azure websites, configure diagnostics, monitoring and analytics on Azure Platform along with scale and resilience for Azure Web sites.
* Designed VNets and subscriptions to confirm to Azure Network Limits.
* 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.
* Migrating application into OneOps cloud.
* Created Multiple **ANT and Shell (bash)** scripts for build automation and deployment.
* Worked on creating the Python scripts for the GIT Pre-push and SVN Commit hooks.
* Hands on Experience in Scripting using Python and Bash.
* Defined branching and merging strategies
* 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.**
* Excellent understanding on ESX Architecture, guest OS installation, setting up of VM priorities, Cloning and Snapshots, Virtual Network, ESX Server, ESXi Server & Virtual Machines, Templates from VMs and deploying VMs from Templates.
* Worked on setting up CI/CD pipelines using Jenkins and Concourse with Pivotal Cloud Foundry(PCF) for Continuous Automated Deployment (CAD).
* Installed Pivotal Cloud Foundry (PCF) on EC2 to manage the containers created by PCF, Used Docker to virtualize deployment containers and push the code to EC2 cloud using PCF.
* Worked on deployment automation of all the microservices to pull image from the private docker registry and deploy to docker swarm cluster using Ansible.
* Scripting done in administrative and management tasks using shell, Bash, Python for automated administrative jobs and experience on Bourne, Ruby, Perl and C-shell.
* 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
* Monitoring Openshift/Kubernetes with Prometheus and Grafan.
* Added Sensu monitoring, while integrating it with chef and set up alerts/notifications and service checks accordingly.
* Deployed and configured **Tomcat application server** to host the wiki website.
* Coordinated software development teams and QA teams on issues and solved the problems.
* Mentored junior Java developers through Eclipse, ANT, GIT, and general Java issues and documented knowledge in several in-house wiki pages.

**Sun Power Systems, Richmond, CA Jun ‘13 – July’14**

**Build and Release Engineer**

##### Responsibilities:

* Used **SVN** as version Control
* Supported Java Project code base and used **Maven** as Build tool.
* Migrated **Ant build.xml** files to **Maven POM.xml**
* Used Bash as scripts language for Build Automation.
* 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.
* Integration of Automated Build with Deployment Pipeline.
* Expertise in setting up and managing the SCM processes and automated tools for OEM embedded system projects
* Build the regressions and create the pipeline.
* Integration of Automated Build with Deployment Pipeline.
* Working on Release branching process and build the regression jobs.
* Deploy Java Based applications on AWS.
* Used Cloudbee **Jenkins** as **CI** tool and added 20 Build slaves. Labeled Slaves so that load can divided and branches get their own priority.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python.
* Created and maintained the Python deployment scripts for Web Sphere web application server.
* Created JUNIT TestCases, TestSuites using JUnit for **Java.**
* Good working knowledge of Ant/Maven for project build/test/deployment, Log4j for error logging and Debugging, Junit for unit and integration testing and XMLSpy for XML validation.
* 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.
* Implemented build stage- to build the microservice and push the docker container image to the private docker registry.
* Experience in automating day-to-day activities by using Windows PowerShell and Azure CLI 2.0.
* 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

**IBM, Hyderabad, India Jun’ 09 – Nov ‘12**

**Linux/ System Analyst**

**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.
* Troubleshooting hardware issues like, RAM, HDD, CPU, Blue screen on all server hardware.
* Configuring network services like NFS, DHCP, DNS, SAMBA, FTP, HTTP, TCP/IP, SSH and Firewall that runs on Red Hat Linux, Sun Solaris, AIX.
* Managed packages using RPM/YUM on Redhat Linux and maintaining patching on Solaris servers.
* 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, JNTU, India – 2009
* Masters in EE - 2014