Sai Sravya

**DevOps Engineer / Cloud Engineer / Build & Release Engineer**

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**PROFESSIONAL SUMMARY**

* AWS certified Associate with around 8+ years of experience working as Cloud/DevOps Engineer and Linux Administrator within environments like Linux/Unix and Windows to provide solutions to the complex issues using Virtualization, Integration, and configuration Management tool.
* Experience in all Phases of Software Life Cycle with emphasis on Designing, Developing, Implementation, Deployment and Support of Distributed Enterprise Scalable, Secure and Transactional Applications.
* Worked in Software Development Lifecycle (SDLC) from concept of implementation, using Agile, scrum, and Waterfall methodologies.
* Proficient in Build & Release automation framework designing, Continuous Integration and Continuous Delivery, Build & release planning, procedures, scripting & automation. Experienced at documenting and implementing procedures related to build, deployment, and release.
* Expertise in automation tools like Git, Subversion, Maven, Jenkins, Chef, Puppet, Ansible, Terraform, Docker, Kubernetes, and Nagios.
* Extensive working experience with AWS IaC (Infrastructure as Code) with broad range of AWS Cloud Services like

EC2, ELB, Auto Scaling, VPC, Route53, RDS, S3, IAM, SNS, SQS, Dynamo DB, Elastic search, and Cloud Watch.

* Implemented and maintained central repositories and implemented Atlassian stash along with GIT to host GIT central repositories for source code across products, facilitate code reviews and log audits for security compliance.
* Worked on Power Shell scripts to automate the Azure Cloud system creation of Resource groups, Web Applications, Azure Storage Blobs & Tables, firewall rules.
* Automated several processes by developing utilities in Shell and Python scripting.
* Designed Puppet Modules to manage configurations and automate installation process and developed automation scripting in Python using Puppet to deploy and manage Java applications across Linux servers.
* Experience in deploying custom chef cookbooks, Puppet manifests and Ansible playbooks, to configure the machines in different environments with appropriate package/services and versions.
* Experience in using Ansible to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points, and Packages. Also, worked on integrating Ansible YAML Scripts.
* Ability to write and debug scripting like Shell, Python, Ruby, Perl, JavaScript and Applied servers like Tomcat, WebLogic, WebSphere, JBOSS to deploy code Implementation.
* Extensive experience using MAVEN and ANT as build tools for the building of deployable artifacts (jar, war & ear) from source code.
* Familiarity working with Kubernetes to automate deployment, scaling and management of web Containerized applications on Google Cloud Platform.
* Expertise in the web server technologies such as Apache, Nginx, SSH, SFTP.
* Strong technical knowledge includes WebSphere Application server implementation, support, workload management and performance tuning. Web server setup, including complex secure sockets layer (SSL) configuration on IBM HTTP Server.
* Sound Knowledge in automating Application Configuration and Deployment for IBM WebSphere Application Server, Using Wsadmin Scripting (WebSphere).
* Experience in integrating Jenkins with various tools like Maven (Build tool), Git (Repository), SonarQube (code verification), Nexus (Artifactory) and implementing CI/CD automation for creating Jenkins pipelines programmatically architecting Jenkins Clusters.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform and Managed AWS and Azure infrastructure code using Terraform.
* Participated in the release cycle of the product which involved environments like Development, QA, UAT and Production.
* Expertise in using Docker including Docker Hub, Docker Engine, Docker images, compose, swarm, and Docker Registry and used containerization to make our applications platform to be consistent flexible when they are moved into different environments.
* Configured and administered monitoring tools like Nagios, Splunk.
* Extensive experience in implementing DevOps tools and pipelines using Jenkins, Nexus Artifactory, Chef, Puppet, Docker, etc. for continuous integration and delivery.
* Built and Deployed Java/J2EE to a web application server in an Agile continuous integration environment and automated the whole process.
* Experience in Deploying to and administering the use of JBoss, Tomcat, WebLogic, and IBM WebSphere.
* Develop metrics and reports using JIRA to help the team understand its health and progress and to set goals.
* Closely worked with development, QA, and other teams to ensure automated test efforts are tightly integrated with the build system and in fixing the error while doing the deployment and building.
* Experienced in writing Ansible playbooks to automate our build/deployment process and do an overall process improvement to any manual processes and managed servers on cloud platform AWS.
* Hands-on experience in using Process Management and Defect Management tools like JIRA, HP Quality Center, ServiceNow, Rally, and Clear Quest.
* Written Templates for AWS infrastructure as code using Terraform to build staging and production environments.
* Efficient in working closely with teams to ensure high quality and timely delivery of build and releases.
* Setup and build AWS infrastructure using various resources, VPC EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS and RDS in Cloud Formation JSON templates, Route53, Lambda.
* Excellent communicative, interpersonal, analysis and leadership skills with ability to work effectively in both independent and teamwork environments.
* Awarded Top performer award from project managers for excellent performance, on time deliverables and flexibility.

**TECHNICAL SKILLS**

* **Version Control Tools:** Git, SVN, Team Foundation Server, CVS.
* **CI/CD Tools:** Jenkins, Travis CI, Hudson, Bamboo, Ansible, Puppet, Chef.
* **Build Tools:** Ant, Maven, Gradle.
* **Programming Languages:** Java, CSS, HTML, PHP, Python, JSON.
* **Databases:** Oracle, SQL SERVER, MY SQL, PostgreSQL.
* **Scripting:** Shell/Bash Scripting, Python, Groovy, Ruby.
* **Networking:** TCP/IP, NIS, DNS, DHCP, WAN, SMTP, LAN, FTP/TFTP, TELNET, Firewalls.
* **SDLC:** Agile, SAFe, Scrum and Waterfall.
* **Monitoring Tools:** Data log, New Relic, Cloud Watch, Nagios and Splunk.
* **DevOps Tools:** Docker, Kubernetes, IBM Urban Code Deploy, Ansible, Chef, Puppet, Terraform, AWS (EC2,S3, VPC, ELB, Glacier, SQS, SNS, Cloud Watch, AWS Lambda, RDS, Route53), Azure, Pivotal Cloud Foundry, BMC Remedy, Heroku.
* **Bug Tracking Tools:** Jira, HP Quality Center, IBM Clear Quest, Selenium, Cucumber.
* **Web/Application Servers:** WebLogic, IBM WebSphere liberty, Apache Tomcat, JBoss, IIS.
* **Operating Systems:** Red hat Linux, Windows, Ubuntu 16.0.4/18.0.4, UNIX.

**CERTIFICATIONS**

* AWS Certified Solutions Architect Professional.
* Docker and Kubernetes: The Complete Guide.

**EDUCATION**

* Bachelor of Technology, Information Technology, SRM University, Chennai, India.

**EXPERIENCE**

**Cloud Engineer | CVS Healthcare, Woonsocket, RI**

**May 2018 - Present**

* Involved in building S3 buckets and managing the access permissions using bucket policies and access control lists (ACL) and dealt with object life cycle management and versioning to automate the object archival.
* Managed multiple AWS accounts with multiple VPC’s for both production and non-prod where primary objectives included automation, build out, integration and cost control.
* Setting up Auto scaling for EC2 instances and creating Cloud watch alerts, monitoring for instances, and using them in Auto-scaling launch configurations.
* Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Setup and build AWS infrastructure various resources, VPC, EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Develop and Maintain business logic in backend using Oracle SQL PLSQL Views Materialized Views Procedures Packages Triggers and Functions.
* Automated NGINX/PHP/MySQL Setup and Monitor.
* Build Data migration and integration processes using Oracle and Informatica Power Center to load into a single data warehouse repository.
* Installed and configured IBM Http Server, WebSphere Application Server Network Deployment (ND), 6.0/6.1/7.0
* Involved in troubleshooting of IBM HTTP server version 6.0 and 6.1.
* Implemented and maintained the monitoring and alerting of corporate servers/storage using AWS CloudWatch to ensure reliability of applications, deployed stacks using AWS Cloud Formation templates.
* Environment provisioning solution using Docker and Kubernetes.
* Experience in working with several Docker components like Docker Engine, Hub, Compose, and Docker Registry for storing Docker images and files, running multiple containers in staging and production environments.
* Worked on Kubernetes to manage containerized applications using its nodes, ConfigMaps, selector services and deployed application containers as Pods.
* Developed new RESTful API services that work as a middleware between our application and third-party APIs that we will used using Golang.
* Analyzed the sql scripts and designed it by using PySpark SQL for faster performance.
* Used Ansible as the configuration management tool and orchestrating the interaction of multiple configurations so that they work efficiently as the whole unit.
* Responsible for implementing monitoring solutions in Ansible, Terraform, Docker, and Jenkins.
* Wrote the Ansible playbooks which is the entry point for Ansible provisioning, where the automation is defined through tasks using YAML format. Run Ansible scripts to provision dev servers.
* Create and maintain highly scalable and fault tolerant multi-tier AWS environment spanning across multiple availability zones using Terraform and CloudFormation.
* Implemented Spring boot microservices to process the messages into the Kafka cluster setup.
* Closely worked with Kafka Admin team to set up Kafka cluster setup on the QA and Production environments.
* Developed Terraform templates to create load balancers (ELB), EC2 instances with auto-scaling, monitoring on the fly for different environments such as QA, SIT stage which will run on different VPCs.
* Used App Dynamics for continuously analyze monitoring logs, measuring performance Bottlenecks.
* Develop framework for converting existing PowerCenter mappings and to PySpark (Python and Spark) Jobs.
* Used Jenkins and Ansible for Continuous Integration and continuous deployment in multiple environments.
* Managed the security and compliance of all the users of Ansible and taken care of the application deployment.
* Configured Ansible to manage AWS environments and automate the build process for core AMIs used by all application deployments including Auto scaling and Cloud formation scripts.
* Experience with Jenkins for Continuous Integration and deployment into Tomcat Servers. And worked in setting up Jenkin slaves for end to end automation.
* Management and design of integrated build pipelines using continuous integration workflows and deployed the artefacts into Nexus.
* Provide guidance in Agile, Scrum, and SAFe and leads Agile delivery teams consisting of a mix of organization and possibly contractor/vendor staff.
* Experience with SAFe DevOps practices including continuous integration and continuous delivery.
* Able to create scripts for system administration and AWS using languages such as BASH and Python.
* Worked with JIRA for bug tracking and sending notifications to admin to resolve the issues.
* Developed Docker images to support Development and Testing Teams and their pipelines and distributed images like Jenkins, Selenium, JMeter and Elasticsearch, Kibana and Logstash (ELK) and handled the containerized deployment using Kubernetes.
* Worked in a group running Jenkins in a Docker container with EC2 slaves in Amazon AWS cloud configuration. Also gain familiarity with surrounding technologies such as Kubernetes.
* Had experience in monitoring System/Application Logs of server using Splunk to detect production issues.
* Created Jenkins CI, CD pipelines for continuous build & deployment and integrated Junit and SonarQube plugins in Jenkins for automated testing and for Code quality check.
* Created the naming strategy for branches and labels and involved continuous integration (CI) system with GIT version control repository and continually build as the check-in’s come from the developer and integrating with

Maven and Jenkins for continuous delivery.

* Installed Jenkins Plugins, setup SCM Polling for immediate build with Maven and maven repository (Nexus) and implemented CI jobs to schedule the builds.
* Troubleshooting host and application workloads running on AWS infrastructure with Splunk, Kibana (ELK), Nagios and Prometheus.
* Worked with development teams and business areas to plan future capacity requirements and hold regular meetings to review usage as well as create, revise, and report any new measurements required to manage mainframe or distributed environments.
* Coordinated effectively with testers, developers, technical support engineers and all the concerned people in trying to achieve overall enhancement of software product quality.
* Supported the application in production and provided 24/7 support for all the environments.

**DevOps Engineer | Amex, Phoenix, AZ**

**Mar 2015 – April 2018**

* Deployed and configured GIT repositories with branching, forks, tagging, merge requests, and notifications.
* Designed and implemented complete CI process with Jenkins and Nexus and reduced build time by 70%.
* Expertise in Amazon AWS Cloud Administration which includes services: EC2, S3, EBS, VPC, ELB, Route 53, Auto scaling, Security Groups, Redshift, and Cloud Formation.
* Installed the application on AWS EC2 AMI Instances and configured the storage on S3 Buckets.
* Implemented and designed AWS virtual servers by Ansible to ensure deployment of web applications.
* Automate Deployment using Ansible to provision amazon AWS Instances to enable continuous deployments.
* Configured local Maven repositories with Nexus repositories and scheduled projects in Jenkins for continuous integration.
* Configured the Ansible playbooks with Ansible Tower and wrote playbooks using YAML.
* Refined automation components with scripting and configuration management using Ansible.
* Have written playbooks for installing several applications on the server using Ansible.
* Established Queuing mechanism using AWS SQS with SNS and Cloud Watch.
* Used bug-tracking software like Jira to find, record, report, manage and track bugs.
* Responsible for encryption and decryption of configuration files using AWS KMS.
* Deployed AWS Elastic beanstalk applications developed with Java (Spring boot framework), PHP, Node.js, Python, Ruby, and Docker on Apache and IIS.
* Configured Maven POMs to automate the build procedures and added plugins by referring them in the xml.
* Worked on Microsoft Azure (Public) Cloud to provide IaaS support to client. Create Virtual Machines through Power Shell Script and Azure Portal.
* Worked on various Azure services like Compute (Web Roles, Worker Roles), Azure Websites, Caching, SQL Azure, NoSQL, Storage, Network services, Service Bus, Functions, App Service, Azure Active Directory, API Management, Scheduling, Auto Scaling, and PowerShell Automation.
* Used Angular JS to create maintainable and testable single page application.
* Capture an image of a Virtual Machine. Attaching a Disk to a Virtual Machine. Manage and create Virtual Network and End Points in Azure Portal.
* Experience in using Azure Vault keys to encrypt keys and small passwords.
* Regular backups are configured for the Virtual machines using backup agent to backup vaults.
* Configured Azure Active Directory and managed users and groups.
* Worked on Configuration of Internal load balancer, load balanced sets and Azure Traffic manager.
* Designed, configured and deployed Microsoft Azure for a multitude of applications utilizing the Azure(Including Compute, Web & Mobile, Blobs, ADF, Resource Groups, HD Insight Clusters, Azure SQL, Cloud Services, and ARM), focusing on high-availability, fault tolerance, and auto-scaling.
* Worked on DynamoDB NoSQL database using boto3, which included creation of tables, items and automating the tasks.
* Created PostgreSQL and Oracle databases on AWS and worked on modifying their settings like backup retention period etc.
* Created monitors, alarms, and notifications for AWS EC2 hosts using Cloud Watch.
* Integrate Splunk with AWS deployment using Ansible to collect data from all EC2 systems into Splunk.
* Automated RDS, S3, VPC, Elastic beanstalk, EC2 using python (boto3) and bash (AWScli).
* Monitored and tracked the environment maintenance activities and communicate issues/risks/status to project stakeholders.
* Supported production systems outside of standard working hours by periodically volunteering to be on call 24/7 to help with issues.
* Coordinated with multiple teams on Environment set up activities like Load Balancer set up, NAS, SMTP, SiteMinder and Firewall rules implementation and provided required support for application end to end testing from DEV to PROD.
* Worked closely with developers, QA teams, product owners and other stakeholders to deliver software through the build and deployment.

**DevOps Engineer | Cisco, Chennai, India**

**Sept 2013 - Feb 2015**

* Implemented and maintained the branching and build/release strategies using GIT.
* Managed Code Repository in GIT and Merged code depending on needs of development team.
* Developed Shell/Perl Scripts for automation purpose.
* Automated build using Jenkins for Continuous Integration and improved software quality through reduction of build time.
* Involved in the release cycle of the product which involves environments like development, QA, UAT and Production.
* Responsible for automated Scheduled Builds and Release using ANT scripts for Enterprise application (J2EE).
* Provided required support for application end to end testing from DEV to PROD.
* Overseeing the continuous build, integration & testing for Java related code running on Cruise Control Mechanism (Unit and Integration Tests).
* Scripting in multiple languages on UNIX, LINUX, and Windows - Batch, Shell script etc.
* Resolved system issues and inconsistencies in coordination with quality assurance and engineering teams.
* Making sure all the SLA’s are met with respect to Incident Management.
* Performed day-to-day jobs such as monitoring log files, writing, and running the scripts to automatically watch the resources, CPU, memory.
* Performed configuration and troubleshooting of standard Linux and network services like NFS, DHCP, SNMP, HTTP, Web servers (Apache), SMTP.
* Implemented multi-tier application provisioning in OpenStack cloud, integrating it with Chef/Puppet.
* Designing and implementing fully automated server build management, monitoring and deployment By Using Technologies like Chef.
* Provided 24\*7 phone support to customers.
* Improved the performance of SQL scripts by using ORM methodology.
* Installed and Configured the Nexus repository manager for sharing the artifacts within the company.
* Involved in setting up JIRA as defect tracking system and configured various workflows, customizations, and plugins for the JIRA bug/issue tracker.
* Created and maintained documentation of build and release processes and application configuration to comply

with audit requirements and industry best practices.

* Involved in Research of the project application architecture to support/resolve build, compile, and test issues/problems.

**Build and Release Engineer | Accenture, India**

**Jan 2012 - Aug 2013**

* Involved in the product release activities, including Change Control Management, Release Management and

Version Management using SVN tool.

* Created the branches in Subversion (SVN) to implement the parallel development process.
* Maintained build related scripts developed in ANT, Python, and shell. Modified build configuration files including Ant’s build.xml.
* Configured and maintained Jenkins to implement the CI/CD process and integrated the tool with ANT and Maven to schedule the builds.
* Merged release branches to the trunk after the production release and resolved the conflicts rose during the

merge in both CVS and Subversion (SVN).

* Developed build and deployment scripts using ANT and Apache MAVEN as build tools in Jenkins to release and

build jobs.

* Built and Deployed Java/J2EE to Tomcat Application servers in an agile continuous integration process and automated the whole process.
* Deployed Applications into PROD and Pre-Prod environments with various Application server technologies like WebLogic, Apache, and Tomcat.
* Production support of Apache and Tomcat including installation, configuration, management, and troubleshooting.
* Worked closely with Development team and QA team for product releases.
* Researched and implemented code coverage and unit test plug-ins with Maven/Jenkins.
* Used Shell/Perl scripts to automate the deployment process.
* Created deployment request tickets in BMC Remedy for deploying the code to Production.
* Experience in implementing and configuring network services such as TCP/IP, HTTP, DHCP, and TFTP.
* Involved in creating new users, groups, and setup their home directories and appropriate access restrictions to software and directories.
* Collaborate reports and communicate effectively with peers, management, external vendors, and other interested parties to meet business goal.