**SREEVISHNU**

**DevOps Engineer**

**Mobile: 3179353619**

**Email:** [**svishnu.devops@gmail.com**](mailto:svishnu.devops@gmail.com)

**Professional Summary:**

* Professional experience of **6 years** in IT industry as a Linux Administrator, Build and Release Engineer, **DevOps** and **Cloud Engineer** with major focus on Cloud Resource Utilization, Source Code Management, Infrastructure Automation, Continuous Integration, Continuous Delivery and Continuous Deployment.
* Good understanding of the principles and best practices of **Software Configuration Management** (SCM) in **Agile** (scrum) and Waterfall methodologies.
* Splendid expertise on **AWS** Cloud-Specific services which include IAM, VPC, EC2, RDS, ELB, EMR, ECS, Auto scaling, S3, Cloud Front, Glacier, Elastic Beanstalk, Lambda, Elastic Cache, Route53, Ops Works, Cloud Watch, Cloud Formation, RedShift, DynamoDB, SNS, SQS, SES.
* Experienced in both framework and **Cloud Formation** to automate AWS environment creation along with the ability to deployment on AWS, using build scripts (Boto3 and AWS CLI) and automate solutions using **Shell** and **Python**. Expertise in Shell, Batch, **Python**, **Ruby** and **Perl** Scripting languages.
* Framed Cost Effective, Highly Available and Fault Tolerant AWS systems by the combined effort of Security Groups, **Elastic** **Load Balancer** (**ELB**) and Auto Scaling which allows for automated **Scalability** and Elasticity and **Disaster Recovery.**
* Written **Cloud Formation Templates** to setup **IAM** policies for users created **VPC** from scratch by configuring Internet Gateway, Route Tables, Subnets, Network ACLs, Security groups and used S3 for storage.
* Vigorously worked on **Ansible** playbooks, inventories, created custom playbooks written in **YAML** language, encrypted the data using **Ansible Vault** and maintained role-based access control by using **Ansible Tower**.
* Experienced working on several **Docker** components like **Docker images**, containers, **Docker-Hub, Docker Registry** as well as familiar with advanced technologies like **Docker Compose, Docker Swarm, Docker Weave**.
* Responsible for Continuous Integration **(CI)** and Continuous Delivery **(CD)** process implementation using **Jenkins,** Hudson and Bamboo along with Shell (UNIX) and **Python Scripts** to automate routine Jobs.
* Experience in **branching**, merging, tagging, develop, manage Pre-commit, Post-commit **hook scripts**; maintaining the version across the environments and provide support for parallel development using **SCM** tools like **GIT** (Github and GitLab), Subversion (SVN), Bitbucket.
* Designed **Splunk** Architecture, Queries and created Applications on Splunk to analyze Data.
* Set up and managed **EFK (Elastic Search, FluentD & Kibana)** Stack to collect, search and analyze log files across servers, log monitoring and created geo-mapping visualizations using **Kibana** in integration with **AWS Cloud watch** and **Lambda**.
* Extensively experienced in using build **automation** tools like **Maven** and **ANT** for the building of deployable artifacts such as jar, war and ear from source code to write Pom.xml and Build.xml respectively.
* Experience in installing and configuring the application and **web servers** like **Tomcat**, **Jboss**, WebSphere, Web Logic and deployed several applications on these servers and extensive experience on **bug tracking** tool like **Jira.**
* Experienced in performing installation and configuration of **Windows server 2012 r2** and **Apache** servers and their web development.
* Install, configure, and troubleshoot enterprise-wide **Apache Web Servers** and **Tomcat** application containers in large **Red** **Hat Linux**/**CentOS** environment.
* Degreed Software Developer with skills that include Programming and the ability to use strong technical skills and creativity to develop solutions.
* Flexible fast-learner who adapts quickly to new challenges, works well in a team setting, and can be counted on to attain desired results.

**Technical Skills:**

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| **Operating Systems:** | Linux (Red Hat 6/7, CENTOS), Windows servers [2003, 2008, 2008 R2, 2012, 2012R2], Windows 2000, XP, Windows 7, Ubuntu 12/13/14, Solaris 11/10/9/8. |
| **Cloud Platform:** | Amazon Web Services |
| **Application Servers:** | Web Logic Application Server 9.x, 10.x, Apache Tomcat 2.0.x, JBOSS 4.x/5.x, Red Hat. |
| **Automation Tools**: | Docker, Ansible, Jenkins (Cloudbees). |
| **Virtualization:** | VMware Client, Windows Hyper-V, vSphere 5.x, Datacentre Virtualization, Virtual Box, KVM, Power VM |
| **Volume Manager**: | Logical Volume Manager, Solaris Volume Manager |
| **Version Control Tool:** | Git, SVN. |
| **Database Technologies:** | Oracle, SQL Server, MySQL, NoSQL, DynamoDB.. |
| **Scripting:** | Python, Groovy, Bash Shell scripting, PowerShell, YAML format, JSON format. |
| **Monitoring tools:** | Splunk, EFK, Newrelic, Zabbix and Pagerduty. |
| **Networking Protocol:** | TCP/IP, NIS, NFS, DNS, DHCP, SMTP, FTP/SFTP, HTTP/HTTPS, NDS, Cisco Routers/Switches, WAN, LAN |

**Education:**

Bachelors in Electrical and Electronics Engineering from JNTU-Anantapur, India 2012

Masters in Computer and Information Sciences, Sacred Heart University CT 2017

**Professional Experience:**

**Capitalone, Richmond -VA MAY 2018 – Present**

**Role: Systems Administrator II**

**Responsibilities:**

* Involved in **Architect**, build and maintain Highly Available secure multi-zone AWS cloud infrastructure utilizing **Ansible** and  AWS Cloud Formation and **Jenkins** for continuous integration.
* Created AWS stacks to provide infrastructure for hosting internal application which is used for file monitoring, file tracking and alerting the users upon the file movements.
* Configured **AWS IAM** polices for users, utilizing Multi Factor Authentication (MFA) service and API Keys for login authentication and protects the data at rest using (**KMS**) **Key Management Service** and data at transit using (TLS) Transport Layer Security protocol.
* Configure and deploy **AWS Lambda** service to run codes in response to events and automatically manage resources. Configured NAT Gateway to provide a route to backend servers with higher level of security to download and update software packages.
* Created **S3 buckets** and configured **bucket policies** to allow Jenkins IAM role and automate the process of data transfer to glacier and restoration of data from glacier.
* Experience in writing **Cloud formation templates**. Designed cloud formation templates to configure the instances and by using the launch configuration the application service start is also automated using the user data.
* Managed a cluster of **Docker** nodes as a single virtual system using Clustering and Scheduling Tool.
* Created automated pipelines in AWS Code Pipeline to deploy **docker** containers in **AWS ECS** using services like Cloud Formation, Code Commit, Code Build, and Code Deploy.
* Implemented a **continuous Delivery** Pipeline with **Docker**, **Jenkins** and **Github** and whenever a new Github branches are updated **Jenkins** automatically attempts to build a new Docker container from it.
* Implemented continuous integration **web hooks** and workflows around**Jenkins** to automate the dev test deploy.
* Implemented **Jenkins** Workflow and Plugins for repeatable deployments of multi-tier applications, artifacts and services to **Docker** and **Red Hat**.
* Implemented **Blue/Green** Deployments with zero downtime where the current environment is replicated to latest version with **Jenkins** and **Cloud formation templates** to resolve the bug fixes and redirect the traffic to it once the issues are resolved.
* Automated **builds** using **Maven** and scheduled automated nightly builds using **Jenkins.** Built Jenkins pipe line to drive all **microservices** builds out to the **Docker** registry.
* Deployed the generated build to **Web** and **Application Servers** using the **Continuous Integration** (**CI**) process to all environments and coordinated with different teams to deploy builds to environments on parallel development for multiple projects.
* Implemented the use of **Cloud Watch Alarm**, Zabbix and Newrelic tool for monitoring and analyzing the network loads on the individual machines and worked on bug tracking tools like **Jira** and automated testing of web applications using **Selenium**.
* Integrated Splunk with the application for file monitoring and the experience in writing Splunk search queries
* Involved in process of **Disaster recovery** and **data replication** of S3 over other availability Zones.

**Environment**: AWS, Docker, Linux, Unix, Windows, Git, Maven, Jenkins, Groovy, Python, Apache, Tomcat, Jira.

**Evariant, Farmington -CT NOV 2017 – MAY 2018**

**Role: Program Analyst**

**Responsibilities:**

* Created functional user requirement and system requirement specification documentation to aid users and clients understand the data
* Utilized TIBCO Spotfire to develop analytical dashboards based on stakeholder requirements.
* Prototyped new procedures and reports which were used to train users as well as showcased to clients.
* Managed the data migration, technical development, and training for hardware upgrade of two AS400 systems which provided greater storage capacity and faster processing throughput.
* Built custom tables/views/procedures in Microsoft SQL to capture the necessary data for analysis.
* Conducted Peer Review, QA, and UAT testing to ensure data and reports are correct.
* Attended business requirement meetings and conducted POC demonstrations to clients.
* Designing and documenting software solutions based on requirements.
* Create automated test scripts, maintaining them, and running them routinely  
  -Maintain 200+ DB passwords which must be changed frequently.
* Creates SQL Stored Procedures, and other SQL functionality for existing and new applications

**FireStreamWorldWide, Chennai-India DEC 2014 – March 2016 Role: Software Test Engineer**

**Responsibilities:**

* Create test plans and test cases to test new features and applications Automate test cases
* Debug software products through the use of systematic tests to develop, apply, and maintain quality standards for company products
* Develop an automation roadmap and helps initiate the right framework and maintain the existing automation suite
* Empower the project test teams to do their own automation with the help of right tools and strategies
* Execute manual test cases against applications under test
* Install, configure and operate the product in test and production environments
* Work closely with developers to release quality code on schedule
* Attend design meetings with Developers, Test Automation Engineers and Architects and provide perspective to improve testability
* Triage issues reported in the field by attempting to recreate in local test environment
* Participates in an Agile team environment by understanding the user, estimating stories, organizing a backlog, sprint planning, daily stand ups, creating tested software, and retrospectives
* Responsible for Company’s information security by preserving confidentiality, integrity, and availability of Company’s information assets and customer data in accordance with Company’s Information Security Management System
* Develop, modify, and execute automated scripts and programs for testing
* Maintain documentation of test results to assist in debugging and modification of software