**Achyuth Kumar**

 **Email: achyuthdevops01@gmail.com**

 **Phone: +1 980-484-0233**

 **|| AWS/ DevOps/ Build & Release Engineer/ Linux Engineer ||**

**PROFESSIONAL SUMMARY:**

* Over **8+ years** of work experience comprising Software Configuration Management (SCM), DevOps **Build/Release Management**, Systems Administration, Change/Incident Management, and **Cloud Management**.

● Expertise in Amazon Cloud Services and its features **AWS EC2**, **VPC, EBS, AMI, snapshots, Autoscaling, Cloud Formation, Lambda, CloudWatch, S3, etc**.
● Handled operations and maintenance support for **AWS cloud resources** which includes launching, maintaining, and troubleshooting **EC2 instances**, **S3 buckets**, **Virtual Private Clouds** (VPC**), and Elastic Load Balancers** (ELB).
● Managed **GIT repository**, **code merging**, and production deployments. Responsible for merging, tagging, and conflict resolution in GIT and administered GIT Source Code Tool. Written pre-commit, post-commit, and post-receive hooks in GIT.
● Strong knowledge/experience in creating **Jenkins** CI pipelines. Experience with **Jenkins** server - Includes setup **of Jenkins Masters**, configure builds, and deployment automation.
● Experience in approaches and tooling for automated build, delivery, and release of the software.
● Management and design of integrated build pipelines using continuous integration workflows such as **Jira, Git, Jenkins, Docker, and Artifactory.**
● Worked on Configuration management tool **Ansible** for continuous delivery. Configured servers using **Ansible** playbooks.
● Experience with **Docker** Containerization. Collaborated with development support teams to set up a continuous delivery environment with the use of **Docker**. Used Debian-based Linux servers to install Docker-based services, and monitor and debug the services.
● Installed, monitored, and supported Web and **Application Servers** on **Linux environments.**

● Used Aws SSM service to patch the Linux servers to remediate vulnerability (CVES)
● Maintained **BitBucket repositories** for DevOps environment: **automation code** and **configuration.**
● Experience in managing the release processes, application health check analysis, and keeping track of production metrics.

**PROFESSIONAL EXPERIENCE:**

**DevOps Engineer December 2022 to Present**

**Bank Of America – Pennington, NJ**

**Responsibilities:**

* Performing a daily deployment by using an automation tool **XLR** and **Ansible Tower.**
* Implemented **CI/CD pipelines** using **Jenkins, and Ansible in a Linux environment**.
* As a member of the release engineering group, redefined processes and implemented tools for software builds, patch creation, source control, release tracking, and reporting on the **UNIX** platform.
* Installed and configured Jenkins for Automating Deployment and provided an automation solution.
* **Troubleshooting** the automation job errors.
* Experience in supporting issues that arise in System Builds, **Server Builds, Installs, Upgrades, Patches, Migration**, **Troubleshooting**, Security, Backup, Disaster Recovery, Performance Monitoring, and Fine-tuning on UNIX.
* Creating release train templates in **XLR** and configuring them with **Bit Bucket.**

**Environment:** Linux, RHEL, Json, JBoss, Apache Tomcat, Bitbucket, Jenkins, Ansible Tower, XL Deploy, XL Release

**Aws/DevOps Engineer June 2021 to November 2022**

**CalSAWS – Los Angeles, CA**

**Responsibilities:**

* Performed patching and **OS** upgrades (rebuilds) and associated hardware break/fix, triage, and software Installations related to the patching Vulnerability and **OS** upgrade activities.
* Provisioned **Red Hat Linux** 6.1, 7.0, and 8.0 virtual machines on AWS by acting as Cloud/ DevOps/Linux administrator & day-to-day Operations, **Vulnerability** analysis, installing software, applying patches, managing file systems, monitoring performance, and troubleshooting alerts.
* Analyzing **vulnerability** by using **Qualys** vulnerability management tool and preparing remediation steps **patching** process.
* Conducted in-depth analysis of Common **Vulnerabilities** and Exposures (CVEs) to understand their potential impact on **AWS Linux instances** and prioritize **patching** efforts.
* Experience in supporting issues that arise in System Builds, **Server Builds, Installs, Upgrades, Patches, vulnerability, Troubleshooting**, Security, Backup, Performance Monitoring, and Fine-tuning on UNIX.
* Identifying, analyzing, and resolving infrastructure **vulnerabilities** and application deployment issues.
* Launching **Amazon EC2** Cloud Instances using Amazon Web Services and configuring launched instances concerning specific applications.
* Created snapshots **and Amazon Machine Images (AMI)** of the instance for backup and created Access Management (IAM) policies for delegated administration within **AWS**.
* Managed Amazon instances by taking **AMIs** and performing monitoring of the Amazon instances like **EC2** using Amazon **CloudWatch**
* Configure **ELK** stack in conjunction with **AWS** and use Log Stash to output data to **AWS S3**
* Working on Multiple **AWS instances**, setting the security groups, **AMI**s, and Autoscaling to design cost-effective, and highly available systems.
* Working with technical and non-technical teams across **Amazon (AWS).**
* Performed the automation deployments using AWS by creating the IAMs used the code pipeline plugin to integrate Jenkins with **AWS** and created the **EC2** instances to provide the virtual servers.
* Performed the automation deployments using AWS by creating the IAMs used the code pipeline plugin to integrate Jenkins with **AWS** and created the **EC2** instances to provide the virtual servers.

**Environment:** Aws, SSM, Patch Management, RedHat, Amazon Linux, AMI, Snapshots, vulnerability, Qualys.

**DevOps Engineer January 2020 to June 2021**

**Bank of America – Charlotte, NC**

**Responsibilities:**

* Experienced in all phases of the **software development life cycle (SDLC)** with a specific focus on building and releasing quality software. Experienced in Waterfall, Agile/Scrum, and most recently **Continuous Integration (CI) and Continuous Deployment (CD)** practices.
* Implemented **CI/CD pipelines** using **Jenkins, and Ansible Tower in a Linux environment**.
* Installed and configured Jenkins for Automating Deployment and provided an automation solution.
* Used **CloudBees Jenkins** for automating Builds and Automating Deployments.
* Creating and maintained High- availability on **CloudBees Jenkins**.
* Maintain and track inventory using **Jenkins** Controllers and set alerts when the server is full and needs attention.
* Continuously deployed and administered **Linux** services using **Ansible Tower** and automated product installation and configuration.
* Worked on **Linux** systems including hardware, software, and applications.
* Installed, configured, and Administered **Jenkins** continuous Integration Tool.
* Created Jobs in Jenkins & set up permissions and scheduled jobs in pole **SCM.**
* Configured multiple **Windows** and **Linux Slaves/controllers** for **Jenkins** Master to distribute the load across all the machines.
* Experience in configuring **XL Deploy and XL Release** Tools from scratch to the applications.
* Build and Deploy releases using Tomcat, Git, Bitbucket, **XL Deploy, XL Release**
* Installed the Ear, war files using **XL Deploy and XL Release** and integrated Jenkins with **XL Deploy and XL Release.**
* Used **XL Release Orchestration** tools for continuous integration & management of several tasks in the deployment process.
* Experience with Configuration Management automation tool Ansible and has worked on integrating **Ansible YAML Scripts**.
* Configuration setup towards continuous integration and continuous delivery using **Jenkins and Ansible.**

**Environment:** Linux, RHEL, JSon, JBoss, Apache Tomcat, Bitbucket, Jenkins, Ansible Tower, XL Deploy, XL Release.

**AWS/ DevOps Engineer October 2018 to November 2019**

**Verizon - Atlanta, GA**

**Responsibilities:**

• Contribute to the development and maintenance of **automation tools** used in the management of our infrastructure.
• Redefined processes and implemented tools for software builds, patch creation, **source control**, and **release tracking** and reporting, on **the Unix** platform.
• **Build**, administer, and troubleshoot all mission-critical environments (**Production, Stage, Dev, Test, QA**)
• Coordinate changes with application owners to ensure coordination and minimal user impact.
• Created and maintained a highly scalable and multi-tier AWS environment spanning multiple availability zones using **Terraform** and **CloudFormation.**

 • Provisioned AWS resources using **Terraform**
• Automate Continuous Build and Deploy Scripts for the **Hudson/Jenkins** **Continuous Integration tool**
• Maintained the **monitoring** and alerting of production and corporate servers using the **Cloud Watch service**.

• Configured their Kubernetes cluster and supported it running on top of the CoreOS
• Created **AWS S3 buckets**, performed folder management in each bucket, and managed cloud trail logs and objects within each bucket.
• Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI/CD** system to **build, and test deploy**.

**Environment:** AWS, Docker, Git, Jenkins, Virtualization, Ansible, New Relic, ELK stack, F5, PCF, Linux, Python, Ruby, Chef, Splunk, Jira

**DevOps Engineer January 2015 to December 2016**

**Aeries Technology – Hyderabad, IN**

**Responsibilities:**

• Focus on continuous integration and deployment, promoting Enterprise Solutions to target environments.
• Implementation of **Docker** and various **Docker** orchestration tools such as docker-compose, **docker swarm,** and various other **management tools.**
• Automate provisioning and other repetitive tasks using **Terraform and Python.**
• Perform application server builds in an **EC2** environment and monitor them using cloud watch.
• Design roles and groups using **AWS identity and access management (IAM)**
• Jenkins implementation and configuration resulting in full **CI/CD** to integration environment on commit.
• **Jenkins**, job setup, maintenance used for build, test, compile, package, **deploy pipeline.**
• Created multiple **Terraform** modules to manage configurations, applications, services, and installation processes for **Web Server** and **AWS instances**.

**Environment:** AWS EC2, VPC, Autoscaling, RHEL 5,6,7, Docker, Terraform, Kubernetes, Python, Zones, Active Directory.

**Linux System Engineer January 2014 to December 2014**

**Avon Technologies – Hyderabad, IN**

**Responsibilities:**

• Developed **shell script** to build parameterized **Jenkins** jobs from **Windows CLI.**
• Developed custom scripts to check website access and port access on the servers used for the application.
• Implemented master-slave architecture on **Jenkins** to automate builds for the team.

• Monitored system performance of virtual memory, swap space management, disk, and CPU utilization using the **Nagios tool.**
• Upgradation and update of OS and Kernel patching of **Red Hat** Enterprise and **CentOS Linux** servers using the local repository and **Red Hat** satellite servers.
• Administration and monitoring of application servers like **Jenkins**, and **Web servers** (**Apache**, **Nginx**).
• Managed backups and **Jenkins** jobs and administered the Master-slave architecture of **Jenkins**.
• User account management in Red Hat Linux servers.
• Configuration, and maintenance of **Red Hat** and **CentOS** Virtual machines.

**Environment:** Git, Jenkins, Java, Scripting, Apache, Tomcat Server, Red Hat Linux, CentOS, VMWare, AWS**.**

**Education:**

**Master’s Degree in Computer Information Systems from New England College**