

**Akhilesh**

**PROFESSIONAL SUMMARY:**

7+ years of experience in IT industry comprising of Development, Systems Administration and Software Configuration Management (SCM). Expertise in all areas of software development life cycle and post-production analysis of the project.

* Extensively worked on designing, building, and improving cloud environments on **Amazon Web Services.**
* Experience with the **Cloud** and **Monitoring** processes as well as **DevOps** development in Windows, Mac and Linux systems.
* Managed Amazon Web Services like **EC2, S3 bucket, RDS, EBS, ELB**, **Auto-Scaling, AMI, IAM** through AWS Console and API Integration with **Puppet** Code.
* Created **cloud formationtemplates** in AWS. Built clouds with **AWS CLI**.
* Skilled at **Software Development Life Cycles** and **Agile Programming Methodologies.**
* Experience in software build tools like **Apache Maven, Apache Ant** to write **Pom.xml** and **Build.xml** respectively.
* In-depth understanding of the principles and best practices of Software Configuration Management (**SCM**) processes, which include **compiling, packaging, deploying** and **Application configurations**.
* Experience in working on source control tools like **Tortoise SVN**, **CVS**, **IBM Clear case**, **Perforce** and **GIT**
* Strong knowledge on **Linux, Automation Tools (Chef or Puppet), AWS Services (EC2, Network, S3/EBS).**
* Develop automation code using **Chef** and **Python** to build **AWS** environments autonomously.
* Experience in integrating **Unit Tests** and Code Quality Analysis Tools like **JUnit, Cobertura, PMD, Findbugs** and **Checkstyle.**
* Extensively worked on **Hudson, Jenkins, and Puppet** for continuous integration and for End-to-End automation for all build and deployments in **Agile** environment.
* Implemented **Puppet** modules to automate configuration of a broad range of services
* Using **Jenkins** as an Amazon Web Services (AWS) Code Deploy plugin to deploy to AWS.
* Ability to build deployment, build scripts and automated solutions (using scripting languages such as **Shell, Perl, Python.**
* Experience in using **Nexus and Art factory**Repository Managers for **Maven** builds.
* Worked on Linux in Cloud Computing environments using **AWS.**
* Research and development on scalable Linux deployments on AWS via CoreOS and **Docker**.
* Expert in deploying the code through web application servers like **Web Sphere/Web Logic/ Apache Tomcat/JBOSS/Jetty.**
* Solid understanding of Operating Systems like **Linux, UNIX, Windows and Mac OSX.**
* Expertise in Querying **RDBMS** such as **Oracle, MY SQL and SQL Server** by using **SQL** for data integrity.
* Closely worked with Developers and Analysts to address project requirements. Able to effectively manage time and prioritize multiple projects.
* Ability to work closely with teams, in order to ensure high quality and timely delivery of builds and releases.
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.

**Technical skills:**

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| **Programming Languages** | C, C++, Java, HTML, XML, Python |
| **Scripting Languages** | Ruby, Perl, Shell, Batch, JavaScript |
| **Operating Systems** | Windows 8/7/Vista/XP/2003/2000/NT/98/95, Sun Solaris 2.x, HP-Unix, RHEL5/6/7 |
| **Databases** | Oracle 11g/10g/9i/8i, MYSQL, PostgreSQL |
| **Build Tools** | ANT, MAVEN. |
| **CI Tools** | Jenkins, Hudson, Build Forge, Chef, Puppet |
| **Application Servers** | Apache Tomcat, Web Logic, Web Sphere |
| **Version Control System** | Subversion (SVN), GIT, IBM Rational Clear Case, CVS |

**Professional Experience:**

**Client: Citi Group, Dallas, TX July 2015 – Present Role: Cloud Automation Engineer/DevOps**

**Responsibilities:**

* Installing and configuring **EC2 CLI** tools and **AWS CLI** tools on **Linux** Machine.
* Designing and launching EC2 instances using CLI toolset to support high availability and security features for application.
* Created **IAM** roles and usage policies by assigning permissions to roles and used custom **JSON** templates for management.
* Involved in creation and configuration of **Amazon S3 buckets** using CLI tools.
* Involved in creation, configuration and networking of **Virtual Private Clouds**.
* Deploy the application on created EC2 instances and usage of S3 buckets and Glaciers by managing created usage policies, for storage and backup of data on AWS.
* Implemented Auto-scaling of instances by creating **Cloud Watch** alerts, for monitoring and alerting of production and corporate servers.
* Developed Cloud Formation scripts and utilized Cloud Formation Templates, to automate launch of EC2 instances and deploying AWS resources using those templates.
* Workstation installation, bootstrapping nodes/instances using **Chef Recipes** and **Cookbooks**.
* Created Chef Cookbooks for integrating with auto-scaling, and create Chef **Automation** tools and builds for an overall process improvement.
* Manage multiple configurations of servers, **DB configurations** to optimize end product configuration using Chef.
* Deployment to AWS by using **Jenkins** AWS Code Deploy plugin.
* **Continuous integration** through Jenkins and GIT as a part of **DevOps** team.
* Usage of **GIT** and **SVN** for branching, tagging and version control activities.
* Deployment of JAVA applications through web application servers like Apache Tomcat application server.
* Involved in server’s virtualization using **Docker** for test environments and work with product development team to resolve their needs in build-related issues.
* Written various scripts in **Bash** and **Python** for build activities, staging and production environments.
* Involved in the managing the integration of projects in to the build environment.
* Involved in User management, regular maintenance, and consistent incremental backups for recovery.
* Troubleshooting various production related outages and coordination with Offshore and Onshore teams for product releases.

**Environment:** Red Hat Linux, AWS EC2, AWS S3, AMI, IAM, AWS Cloud Watch, GIT, Chef, Jenkins, Docker, Apache Tomcat, Python, Bash.

**Western Governors University, Salt Lake City, UT. Jul 2013- Jun 2015**

**Role: DevOps Engineer**

**Responsibilities:**

* Integrating **AWS cloud Formation** with **Chef** for configuring and patching applications.
* Worked on **S3** buckets creation in **AWS** using **CLI** and **Console**.
* Used **SVN** for branching, tagging, and merging.
* Participated in the release cycle of the product, which involves environments like **Development, QA, UAT** and **Production.**
* Perform biweekly build cycle and testing processes.
* Used **Ant** Scripts to automate the build process.
* Creating **Puppet**manifests for Proof of Concept.
* Worked on content management for configuration management using **Puppet**, created **modules** to define the **Application configuration**.
* Configured**Puppet master** and **agents** to deploy consistent infrastructure code across multiple environments.
* Managed repository, folder, and user/group privileges in **Informatica Power Center 8.6** environments.
* Developed **UNIX** and **Perl Scripts** for the purpose of manual deployment of the code to the different environments and E-mail the team when the build is completed.
* Managed and performed the environment related configuration changes as a part of deployment.
* **Coordinated Release** effort amongst various teams (**Integration, QA, Testing, and Business Analysis**) in geographically separated environment.
* Export/Import Informatica objects such as mappings, sessions and workflows between repositories.
* Served as a partial administrator for **UNIX** machines.
* Java web applications deployment on **Jetty**.
* Attended the **Minor/Major Event change control** meetings to get necessary approvals for the deployment request.
* Used **Perl/Shel**l to automate build and deployment Process.
* Coordinated with developers, Business Analyst and Mangers to make sure that code is deployed in the Production environment.
* Executed the DB Scripts (**DML**), which has dependencies on the code on **Oracle DB**.
* Documented the deployment process (Migration Doc) of code to production.
* Used **Remedy** as deployment issue tracking tool.

**Environment: ANT, Shell Scripts, XML, UNIX, Business Objects, and Oracle.**

**Client: Cabela’sInc.,Lincoln, NE** June2012 - May 2013

**Role: DevOps Engineer**

**Responsibilities:**

* Primary responsibilities include Build and Deployment of the java applications into different environments like **Dev, INT**and**QA**.
* Installed **Jenkins**on a Linux machine and created a master and slave configuration through a build farm for implementation of multiple parallel builds.
* Use of **Chef** to implement the continuous integration process.
* Generated scripts in **Maven** and**Perl**for build activities in QA, Staging and Production environments.
* Repository management in **Maven** to share snapshots and releases of internal projects using **Nexus** tool.
* Branches creation in Subversion (SVN) to implement the parallel development process.
* Merged release branches to the trunk after the production release and resolved the conflicts raised during the merge in both Subversion
* Proposed branching strategies and implemented it.
* Management of Users and Groups in Subversion (SVN) and troubleshoot client spec issues and user issues.
* Automation of deployment and server bounce process by creating scripts using **WebLogic Scripting Tool** (**WLST**).
* Deployment of build artifacts like wars and ears into a **WebLogic** app server by integrating the **WLST** scripts to Shell Scripts.
* Maintained all the Linux environments for deployments.
* Implemented Configuration Management, Change Management policies and procedures.
* Use of the ticketing tool**JIRA**.
* Automate provisioning of **Amazon AWS** instances
* Directed the Release Management Calls to synchronize with the Developers, Testers and DBA teams for successful Release.
* Presented reports to the Project manager about the progress and issues tracking key project Milestones, plans and resources.

**Environment: SVN, Maven, Chef, Shell, Perl, JIRA,WebLogic**and **Nexus**.

**T-Mobile, Bellevue, WA** Dec 2011 - Apr 2012

**Role: Build & Release Engineer**

**Responsibilities:**

* Participated in the release cycle of the product, which involves environments like Development, **QA**, **UAT** and Production.
* Used Subversion for the purpose of Software Configuration management and maintaining the versions.
* Performed Branching and Merging as per the schedule.
* Configured the **AWS** Load Balancers and **VPC** with Public and private subnets.
* Performed Branching and Merging as per the schedule.
* Performed Amazon S3 buckets creation, policies and also on the **IAM** Role based polices and customizing the **JSON** template.
* Created the **AWS VPC** network for the Installed Instances and configured the Security Groups and Elastic IP's accordingly.
* Configured the Route 53 **DNS** and load Balancers for the **VPC** and the **NACL** with inbound and outbound Rules.
* Created Cloud Formation template for **ELK** stack template.
* Managed repository, folder, and user/group privileges different environments.
* Documented the Build and Deployment Process which could be used by the team if found any issues at the time of build and deployment of different applications to different environments.
* Responsible for User Management and Plug-in Management for **Jenkins**.
* Created the Master/Slave pattern for Jenkins to distribute the load and builds around the build farm.
* Developed Bash and python Scripts for the purpose of manual deployment of the code to the different environments and E-mail the team when the build is completed.
* Involved in the installation and configuration of **Nginx** as a Load Balancer.
* Managed and performed the environment related configuration changes as a part of deployment.
* Coordinated Release effort amongst various teams in geographically separated environment.
* Served as a partial administrator for Linux machines.
* Installed the application on **AWS EC2 AMI** Instances and also configured the storage on S3 Buckets.
* Attended the Minor/Major Event change control meetings to get necessary approvals for the deployment request.
* Used **Perl/Shell** to automate build and deployment Process.
* Configuration management and Server application management using Chef and SaltStack.
* Most of the admin tasks are done using Chef tools instead of doing manually.
* Maintained user account across the network using Chef.
* Installed and maintained Chef on different environment like Linux distribution, windows (agents), MAC
* Coordinated with developers, Business Analyst and Managers to make sure that code is deployed in the Production environment.
* Documented the deployment process (Migration Doc) of code to production.
* Used **JIRA** tool to track all the defects and changes released to all environments.

**Environment**: **Amazon AWS Services, Subversion (SVN), Chef, ANT, Shell Scripts, XML, Linux, Apache,MySQL, JIRA, ElasticSearch.**

**Client: SoftSol, Hyderabad, India**Sep 2010 – Nov 2011 **Role: Build and Release Engineer.**

**Responsibilities:**

* Designed and implemented Subversion and GIT metadata including elements, labels, attributes, triggers and hyperlinks.
* Collaborating with the cross product engineering teams to provide release engineering services
* Implemented & maintained the branching and build/release strategies utilizing Subversion /GIT.
* Performed all necessary day-to-day **Subversion/GIT** support for different projects.
* Responsible for design and maintenance of the Subversion/GIT Repositories, views, and the access control strategies.
* Involved in periodic archiving and storage of the source code for disaster recovery.
* Experienced in Software Development Life-Cycle, Incident, Problem, Change, and Release Management practices.
* Worked closely with developers to pinpoint and provide early warnings of common build failures.
* Used **ANT** and **MAVEN** as build tools on Java projects for the development of build artifacts on
* Designed and implemented Subversion and **GIT** metadata including elements, labels, attributes,
  + the source code.
* Automated the build and release management process using Jenkins including monitoring changes between releases.
* Executed user administration and maintenance tasks including creating users and groups, reports and queries.
* Amazon Elastic cloud instances and web security, Mule **ESB** (EAI)/Service mix, Web services /Rest, **Amazon AWS** and **Chef**.
* Hosting applications with the **AWS Cloud**.
* Experience in creating life cycle process in **AWS**.
* Worked as a system administrator for the build and deployments process on the enterprise server.
* Documented project's software release management procedures with input decisions.
* Developed, maintained, and distributed release notes for each scheduled release.
* Provided periodic feedback of status and scheduling issues to the management.
* Kept track of all the releases and request of the developers through Infrastructure management tool.

**Environment: Subversion/GIT, ANT** and **MAVEN, JBOSS, AWS and CHEF**

**Ness Technologies India Pvt Ltd, Hyderabad, India** July 2009-June 2010

**Role: Linux Administrator**

**Responsibilities:**

* Managed and administrated of all **UNIX** servers, includes Linux operating systems by applying relative patches and packages at regular maintenance periods using Red Hat Satellite server, YUM, RPM tools.
* Prepare specs for new infrastructure and **VMware servers, disk storage**, and network switches, routers, firewalls, and VPN's.
* Planned and performed the upgrades to **Linux (RHEL 5x, 6x, SUSE 10, 11, CENTOS 5, 6,** operating systems and hardware maintenance like changing memory modules, replacing disk drives.
* Handling **NFS, Auto Mount, DNS, LDAP** related issues. Install and configure **DHCP**, **DNS (BIND, MS), web (Apache, IIS), mail (SMTP, IMAP, POP3),** and file servers on Linux servers.
* Monitoring CPU, memory, physical disk, Hardware and Software RAID, multipath, file systems, network using the tools **NAGIOS 4.0** monitoring.
* Deployment and Configuration of application server **Tomcat** deploying **Java** and **Web Application**.
* Writing Shell scripts for automation of daily tasks, documenting the changes that happen in the environment and in each server, analyzing the error logs, analyzing the User logs, analyzing the /var/log/messages.
* Design, build, and maintain production servers and **RAID** storage system.
* Performing kernel and database configuration optimization such that it limits I/O resource utilization on disks.
* Diagnosed hardware and software problems and provided solution to them.
* Worked with DBAs on installation of RDBMS database, restoration and log generation.
* Produced automated software builds using variety of open source, scripting and proprietary tools.
* Identify, troubleshoot, and resolve problems with the OS build failures.
* Attended team meetings, change control meetings to update installation progress, and for upcoming changes in environment.

**Education:**

* Bachelor of Technology in Computer Science Engineering from Jawaharlal Nehru Technological University, Vijayawada, India.