**PREETHAM**

**DevOps Engineer**

**PROFESSIONAL SUMMARY:**

* Accomplished professional with over 6+years of IT Industry experience with Software Configuration Management, Build and Release management. Experienced as a results and quality driven Configuration Management Engineer with demonstrated success in the development, release and deployment of multiple products.
* Actively participated in on-call rotation.
* Detailed technical knowledge on DevOps and a pleasant experience on automation, build engineering and configuration management.
* Worked on maintaining documentation of policies and different task related operations of the environment.
* Exceptional communication skills and business acumen to convey complex, technical and business process issues to multiple in formal presentations, desk side, and across along lines.
* Extensive knowledge on **UNIX, Linux, VAX/VMS, Windows, RDBMS** across a wide range of products.
* Working knowledge on Software Configuration Management (**SCM**) Systems, **VMware**, **Build Management Tools** and **Build and Release Engineering Tools** and **Automation of SCM** processes using **Triggers** and **Shell Scripts**.
* Highly proficient in SQL and RDBMS skills including **SQL server, Oracle, DB2** and **MySQL.**
* A strong experience on management and design of integrated build pipelines using continuous integration work flows such as **Kira, Git, Stash, Bamboo, Jenkins, Docker, Nexus.**
* Configured application servers (**JBOSS**) to deploy the code.
* Used sub modules in the **GIT** and educated users working with sub modules in **GIT**.
* Good in provisioning and deployment tools like **Puppet**.
* Developed unit and functional tests in **Python** and **Ruby**.
* Ability in execution of **XML, Ant Scripts, Shell Scripts, Perl Scripts** and **PythonScripts**.
* Hands on Experience on Cloud Platforms in OpenStack, **Azure**, **AWS** and**Heroku.**
* Experienced with **Handling Cloud environments (AWS)**and automated provisioning of **Amazon AWS** instances.Experience in **Open Stack cloud**, integrating it with **Puppet**.
* Managed servers on the **Amazon Web Services (AWS)** platform using **Chef** configuration management tools.
* Created AWS instances and deployed applications and delivered for QA teams to initiate performancetesting.
* Extensive experience in all phases of **Software Development Life Cycle (SDLC) in Agile, Scrum, and Waterfall methodologies.**
* Expertise in configuring and managing services like **AWS EC2** using AMI’s available. Configured multiple servers depending on application needs using continuous integration tools like **Jenkins.**
* Proven strong experience in automating, configuring and deploying instances on **AWS**, **RackSpace, Azure** cloud environments and Data centers, also familiar with **EC2, S3, ELB, Cloud watch, SNS, Elastic IP’s and managing security groups, IAM on AWS.**
* Installed **Chef Server** enterprise on premise/workstation/bootstrapped the nodes using **Knife** and automated by testing **Chef recipes, cookbooks with test-kitchen, chef spec.**
* Performed AWS cloud deployments for web applications with monitoring using CloudWatch and VPC tomanage network configurations
* Build servers using **AWS**: Importing volumes, launching **EC2**, **RDS**, creating security groups, auto-scaling, load balancers (**ELBs**) in the defined virtual private connection.
* Experience migrating traditional data-center applications and databases into public clouds like **AWS, Azure, Rackspace.**
* Used configuration management tools **Chef** and **CF** Engine.
* Extensivelyworkedoncontinuousintegration tools like **Hudson**, **Team city**,**Jenkins, CA Harvest**and**Bamboo** for end-to-end automation of various build and deployments.
* Experience in **Docker**.
* Automation experience in **Chef**, **Power Shell**, **PowerCLI** scripts.
* Experience with **Udeploy**, **BMC RLM**,**Application Deployment Automation** Tools.
* Extensively worked with change tracking tools like **ITSM, JIRA, HP Service Center.**
* Familiar with integrating **JUnit**, **Cobertura**, **PMD** and other code qualit**y** tests as a part of build process.
* Hands on experience using **Mesos, Marathon, CONSOL, Zookeeper, ELK** tools for deployment.
* Experience working in various environments like **e-commerce**, **product**, **SAAS** and **IT web Apps.**
* Exposure to **SDLC** and experience with building deployment solutions for Scrum.
* Used **Groovy** based tool for building projects.
* Installed **Kafka** on cloud machines and monitored the commit logs.
* Performed **Smoke** and **Sanity tests** after the applications are built.
* Involved in customization of Work Items, Transition Matrix in TFS.
* Created Custom as well as downloaded pre-written **Modules and Manifests**.
* Worked and utilized puppet hierarchy files, facts, and global variables.
* Experience in working on source control tools like **Tortoise SVN, CVS, IBM Clear Case, Perforce, and GIT**.
* Deployed **Docker Engines** in **Virtualized Platforms** for containerization of multiple applications.
* Performed server’s consolidation and virtualization using **VMware virtual infrastructure, VMware ESX, Virtual Center, VM tools.**
* Worked on installation, configuration and maintenance **Red hat**, **CentOS** and **SUSE** Servers at multiple data centers.
* Experience in installation and configuration of monitoring tools **Nagios for monitoring the network bandwidth** and the hard drives status.
* Involved in Upgrade of **Bamboo**and**Arti**factory Server.

**EDUCATION DETAILS:**

* Bachelor of Technology (GITAM University, Telangana,India).

**TECHNICAL SKILLS:**

**Languages/Scripting:** Java/J2EEBash, Perl,Python,XML, Ruby, Jason,Amazon AWS, Puppet Manifesting, Ant, Maven.

**Automation/Build tools:** Jenkins, Docker, Chef, Puppet, Nexus, Ivy, Ansible, TeamCity, Bamboo.

**Web/App Servers:** WebSphere, Apache, Tomcat, Sun One, IBM portal server.

**Databases:** Oracle, MySQL, SQL, NoSQL, DB2.

**Testing Tools:** Selenium

**Development Environment Tools:** Vagrant, Eclipse, Visual Studio, Virtual Box.

**Operating Systems:** UNIX, Linux, Windows.

**Monitoring tools:** App Dynamics, Grafana, Zabbix.

**Network infrastructure:** TCP/IP, DNS, DHCP.

**PROFESSIONAL EXPERIENCE:**

**Client: PRICEWATERHOUSECOOPERS, Tampa, FL Apr 2016 to Present**

**Role: Build and Release Engineer**

**Responsibilities:**

* Automated the front-ends platform into highly scalable, consistent, repeatable infrastructure using high degree of automation using Puppet, Vagrant, Jenkins, and Cloud formation.
* Worked closely with software developers and DevOps to debug software and system problems.
* Supported and developed tools for integration, automated testing and release management.
* Performed deployment activities using tools like Jenkins, Chef.
* Designed and implemented Subversion and GIT metadata including elements, labels, attributes,triggers and hyperlinks.
* Extensive knowledge working with App Dynamics,Grafana and Zabbix.
* Wrote Puppet models for installing and managing Java versions.
* Managed GIT and SVN as Source Control Systems.
* Assisted system level maintenance and patches.
* Used Chef to aid with our deployment process, to reduce costs, to eliminate unwarranted
* resources and migrating in-house systems to Amazon Cloud Services.
* Created Pre-operation and Post-operation triggers in UCM.
* Maintained Maven/Ant and streamlined the entire build system. And managed build and release infrastructure, optimized build scripts and introduced a better way of releasing RPMs with effective tracking.
* Developed scripts using PERL, BASH and BATCH files for Automation of Activities and builds.
* Facilitated self-service of infrastructure tools by various departments, thereby improving workflow.
* Managing Amazon Web Services (AWS) infrastructure with automation and configuration management.
* Familiar and experienced with Agile Scrum development.
* Working knowledge on cloud services of AWS: EC2, S3, VPC, EBS, ELB, Auto scaling, Cloud Watch, Cloud Trail, IAM, SNS, SQS, RDS, Dynamo DB, Cloud Front etc.
* Gained extensive experience in RPM deployment via Chef, build automation through Jenkins, and server management via mod\_wsgi and Apache.
* Wrote and tested Chef cookbooks using Vagrant, Git, Packer, Test Kitchen & Jenkins.
* Analyzed Ansible and Nginx playbooks to determine how to migrate them to Chef and Ruby.
* Migrated Tomcat, memcached, Apache, and Oracle from private cloud to Hyper-V.
* Collaborated using Atlassian tools including Jira, Confluence, and HipChat.
* Operated the multi Data Center environment on a daily basis, including troubleshooting, upgrades, and maintenance.

**Environment:** Jenkins, Chef, GIT, Puppet, SVN, Chef, AWS, PERL, BASH, Apache, Chef cookbooks, Vagrant, Ansible, Nginx, Tomcat,Grafana, Zabbix, Oracle, Atlassian, Jira.

**Client: Progressive Casuality Insurance, OH Jul 2014 to Mar 2016**

**Role: DevOps Engineer**

**Responsibilities:**

* Used PowerShell for DevOps in Windows-based systems.
* Worked on build tasks using Maven, Ant and GNU Make files and worked with development team to migrate Ant scripts to Maven.
* Build and maintained environments like Dev, Test, Stage and Prod.
* Actively participated in on-call rotation supporting various issues.
* Extensively used Perforce as a configuration management tool to manage source code.
* Extensive experience in Administration, Deployment, Configuration and Monitoring through CA.
* Release Automation Nolio ASAP.
* Used monitoring tools Grafana and Zabbix.
* Wrote Chef Cookbooks to bootstrap Chef Client and creation of VM's on cloud environments with the desired applications on the node.
* Configuration Automation using Chef and Docker Containers.
* Performed all necessary day-to-day Subversion functions for the project like merging, creating branches and tags using Tortoise SVN.
* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto-scaling groups.
* Launching Amazon EC2 Cloud Instances using Amazon Images (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
* Migrated customer environments to AWS ensuring complete support for existing Chef Implementation.
* Maintained documentation of policies and procedures for operations performed in various environments.
* Used Jenkins for Continuous Integration and Continuous Delivery by Integrating various tools and systems with Jenkins, writing automation, Creating Code Pipelines and Dashboards programmatically in Jenkins.
* Deployed VMware and OpenStack-based virtualization infrastructure.
* Deployed and configured Linux, Windows, and Mac OS Virtual Machines.
* Creating user account and providing privileges to it as required. Running change pack deployment using Serena Release control and Nolio ASAP.
* Installed and configured puppet master and puppet agent for server configuration management.
* Used Amazon RDS to manage, create snapshots, and automate backup of database.
* Pulling required Docker Image files from Docker hub.
* Configuring the Docker containers and creating Docker files for various applications.
* Integrated the Dockercontainerized applications to get them functional and working.
* Backed up and restored configurations and data of various tools (SVN, Jenkins, WAS, Sonar), databases (Oracle, DB2) and servers (windows, RHEL) as required.
* Integrated Build dependencies and dependency blocking strategy in Bamboo.
* Troubleshoot build issues in MS Build and TFS Build.

**Environment:** SVN (Subversion), ANT, NAnt, and Maven, Docker, Puppet, TFS, Jenkins, MS Build, UNIX, Linux, Perl, Bash, Python, Ruby, Tortoise SVN, AWS, MongoDB, Chef, Sonar, SharePoint, Bamboo, Amazon RDS, Git, JIRA.

**Client: Magna Infotech Private LTD, India Feb 2013 to Jun2014**

**Role: Release Engineer**

**Responsibilities:**

* Responsible for daily builds and deployments from Development through various testing environments.
* Performed day-to-day admin activities like creating and managing build, deploy activities and improve the release process.
* Developed and maintained build and release documentation and baseline builds.
* Supporting engineering plans and schedules by providing CM/Release.
* Performed services to build, deploy, develop scripts, oversee branch and merge strategies, and build automated tools as necessary to offer services to engineering team.
* Primary responsibilities include build and deployment of the java applications onto different environments. Responsible to push Java and .Net based builds to Dev, QA and Stage environments using Subversion(SVN).
* Assist developers with Subversion(SVN) issues for builds, patches and deployments.
* Wrote automated scripts using with Ant for build and deploy process and integrated it with Maven.
* Maintained configuration files for each application for build and install on different environments using Serena.
* Responsible for Daily and Weeklybuild and deployments for different projects in different environments
* Developed and maintained UNIX/Perl/Ant scripts for build and release tasks.
* Involved in creating new elements in VOB's.
* Modified ANT scripts to build the JAR's, Class files, WAR files and EAR files from VOB's.
* Developed utilities for developers to check the checkouts, elements modified based on project and branch.
* Created Subversion configuration record for builds using derived objects generated during build audit process.
* Created and managed continuous integration process for build and deployment using Hudson.
* Co-ordinate incidents requiring multi-vendor engagement, drive effective and efficient Incident.
* Management process to ensure timely service restoration and resolution of incidents.
* Groovy scripting to update Jenkins jobs and configuration update.
* Apache tomcat configuration and updates.

**Environment:** Java, .net, SVN, Ant, Maven, Serena, Unix,Perl,Ant, Hudson, Groovy,Apache,Tomcat.

**Client: Broad light Solution, India. Feb 2011 to Jan 2013**

**Role: Linux System Administrator**

**Responsibilities:**

* Performed deployment, ongoing maintenance & configuration of systems for maximum availability, security.
* Performance and documentation in a Linux based production environment.
* Installed and configured Redhat Linux using Satellite Server.
* Implemented and organized a rollout project which involves upgrade of servers using Redhat Satellite Server.
* Involved in OS upgrade and Server migration from Lairs and HP-UX to Red hat Linux.
* Managing the user accounts for the team access for Redhat Satellite Server.
* Created RPM packages using RPMBUILD, verifying the new build packages and distributing the packages.
* Worked on SAN/EMC storages with HBA card configuration and different level of RAID configuration.
* Helped to establish standards, policies and procedures for all aspects of Unix server environment like administration, documentation and configuration.
* Installation and configuration of XEN and VMware virtualization and deploying the OSLinux and applications (Oracle, MySQL, PostGres, JAVA) on the Guest Domains.
* Configured Resource Pool, Motion, Alerts, Alarms.
* Worked on KVM, Network Appliance installation, Configuration, and Troubleshooting.
* Build and Configuration Management of development, testing environments with Docker including GKE (Google Container Engine),Vagrant and Puppet.
* Backups and recovery of AIX operating systems.
* Decommissioning servers as per IBM standards.
* Experience working with high availability, high performance, multi-data center systems and hybrid cloud environments.
* Handling the scheduling tasks (Cron jobs and task scheduler) for the scripts for various purposes.
* Troubleshoot complex issues ranging from system resources to application stack traces.
* Created Linux Virtual Machines using VMware Virtual Center.
* Installed, upgraded and managed packages viaRPM and YUM package management.
* Installed Firmware Upgrades, Kernel patches, systems configuration and performance tuning on Unix systems.
* Installed, configured and supportedApache on Linux production servers.
* Installed and Configured Apache HTTP web server, (LDAP), Open Wave, Novell's Identity Manager on AIX, Solaris.
* Configured Jumpstart, Kickstart, NIM and HP ignite servers and performed respective installations.

**Environments**: Red hat Linux, RPM, Unix, Oracle, MySQL, PostGre,JAVA, Docker,GKE,Packer,Vagrant,Puppet,Linux, Apache, Solaris.