**Sunil Kumar**

**Email: sgarlapatik@gmail.com**

**Phone: (732) 858-6658**

**Professional Summary:**

* 8+ years of IT experience specialized in Linux System Administration working on server-based operating system; kernel configurations on Redhat Linux, CentOS, SUSE, Debian 7, Ubuntu 12.x/13.x, kernel Parameter & Tuning, Trouble Shooting System & Performance Issues. Extensive experience includes SCM, DevOps Build/Release Management, AWS, Change/Incident Management and Cloud Management.
* Extensively involved in DevOps, Release Engineering, Configuration Management, Cloud Infrastructure, Monitoring, Automation. It includes **AWS**, **Jenkins & Hudson, Chef, Git, Docker, Nagios.**
* Hands on experience with an in-depth level of understanding in the strategy and practical implementation of **AWS cloud-specific** and **OpenStack** technologies. Services like **EC2, S3, Route 53, CloudFormation, Elastic Bean Stalk**, **VPC, EBS** etc.
* Develop automation and processes to enable teams to **deploy, manage, configure, scale** and **monito**r their applications in data centers and in cloud.
* Extensive experience with Continuous Integration Tools **(Jenkins, Hudson, Bamboo**).
* Expertise on Version Control System(VCS) like **GIT, GIT-Hub, Git Stash**, SVN.
* Involved in implementing and administering **monitoring** tools **Splunk** and**Zabbix, Sensu, Cacti, Nagios.**
* Configured and monitored distributed and multi-platform servers using **Chef**. Defined **Chef** Server and workstation to manage and configure nodes. Developed **Chef Cookbooks** and **Recipes** to manage systems configuration.
* Expertise with Atlassian tools like **Bamboo, Jira, and confluence**.
* Experience on Deployment Tools like **Jenkins & Hudson, Chef, Puppet, Ansible & Vagrant, Docker**.
* Solid understanding of current web and internet technologies like **Apache,Tomcat, Nginx, MongoDB, Cassandra, Elasticsearch, Memcache**.
* Extensively worked on **Jenkins** and **Hudson** by installing, configuring and maintaining for **continuous integration (CI)** and for End to End automation for all build and deployments.
* Experience in using **Nexus** Repository Managers for Maven builds. Experience working in various environments like e-commerce, product, SAAS and IT web Apps
* Expertise working on various environment like **Windows/Microsoft, Mac/ XCode, iOS, Linux/Unix/Java.**
* Worked on cloud-based servers like **AWS**, AZURE and Rackspace.
* Performed automation tasks on various **Docker** components like **Docker Hub, Docker Engine, Docker Machine** and **Docker Registry**.Worked with Docker images & Docker Container.
* Exposure to SDLC, ATDD and experience with building deployment solutions for **Scrum**.
* Experience with SCA Fortify and Lithium Static & Dynamic website/code scanning tools.
* Deep expertise in building and breaking cloud-scale systems, with focus on Information Security, Data Stewardship**, User Authentication**, **Network Security, Key Management**, Resource Isolation.
* Created database tables that can store and retrieve any amount of data, **API** and **datatype** with **Amazon Dynamo DB** in **NoSQL database service.** Also, familiar with **MongoDB**.
* Extensive experience in working with **Oracle Weblogic**, **Apache Tomcat** application servers.
* Worked with different Bug tracking tools like **JIRA**, **Redmine**, **HP Quality Center** and IBM Clear Quest.
* In addition to acceptance tests for requirements, acceptance tests can be used on a project (ATDD).
* Highly organized, able to multi-task, the ability to work individually, within a team, and with other groups.
* Expertise in Analyzing client requirements, build cost effective and scalable server architecture.
* Managed large amounts of structured, semi-structured, and unstructured data across multiple data centers and partitioned data among all nodes in the cluster using **Cassandra**.
* Excellent communication skills with ability to work as a team or individually and very keen to learn some emerging technologies.
* Provide responsive off-hours support in a **24/7** environment and ensure maximum availability of all servers and applications.

**Technical Skills:**

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| **Operating Systems** | **Linux (Red Hat 4.x, 5.x, 6.x), (CentOS 5, 6.5, 7) UNIX**, **WINDOWS NT/2000/2003/XP/VISTA/7, AIX.** |
| **Version Control Tools** | **CVS, SVN, IBM Rational Clear Case, Perforce, RTC, GIT, SourceTree** |
| **Languages** | **C, JAVA, XML, SHELL, PERL, RUBY, PYTHON** |
| **Databases** | **My SQL, MS Access, Oracle 9i/10g/11g, DB2, AWS Arora** |
| **Application Servers** | **TOMCAT, WEBLOGIC, WEBSPHERE** |
| **Tools** | **ANT, MAVEN, HUDSON/JENKINS, CHEF, PUPPET, OPENSTACK BUILD FORGE, NAGIOS, DOCKER.** |
| **Cloud** | **AWS EC2, VPC, EBS, SNS, RDS, EBS, CloudWatch,CloudFormation AWS Config, S3, Auto Scaling, Cloud Trail, Lambda, RackSpace, VMWare,Virtualization experience (VM Management), Docker.** |

**Professional Experience:**

**Client: Deutsche Bank, Cary, NCMarch 2016 – Till Now**

**Role: Linux System Engineer**

**Responsibilities:**

* Migrated customer environments to **AWS** ensuring complete support for existing **Chef** Implementation.
* Experience in designing and deploying **AWS Solutions** using **EC2, S3, EBS, ELB, Auto Scaling groups.** Cloud as a code with **Ansible.**
* Implemented multiple high-performance **MongoDB** replica sets on **EC2** with robust reliability.
* Interacting with clients to assist in setup of **Virtual Private Networks** across departments with strong **Security Groups** and **Firewall policies** at both the Subnet and the Instance OS level.
* Installed, configured and maintained web servers like **HTTP Web Server, Apache Web Server** and **WebSphere Application Server** on **Red Hat Linux.**
* Coordinate with the Development, Database Administration, QA, and IT Operations teams to ensure there are no resource conflicts.
* Created and maintained various DevOps related tools for the team such as provisioning scripts, deployment tools, and development and staging environments on AWS, Rackspace and Cloud.
* Worked closely with Project Managers to understand a code/configuration release scope and how to confirm a release was successful.
* Developed proof of concept implementations of distributed frameworks using Docker.
* Experienced in writing automation scripts using **PythonBoto** and Aws API.
* Experience moving java/J2EE applications and Databases into cloud.
* Good understanding of Networking, **VPC**, Data center to Cloud Connectivity, Security etc in aws cloud.
* Usage of **Cloud Formation** templates to provision new environments.
* **Marathon** has been the first-class support container for **Mesos** container and **Docker**.
* Build, manage, and continuously improved the build infrastructure for global software development engineering teams including implementation of build scripts, **continuous integration(Bamboo)** infrastructure and deployment tools.
* Built provisioning engine that utilizes chef and Ansible to implement deployments to multiple platforms including **VMWare** and **AWS**. Used Sensu and other software for monitoring on several servers.
* Managing the code migration from TFS, CVS and Star team to **Subversion** repository.
* Implemented continuous **integration using Jenkins.**
* Collate application and system logs into and Splunk for centralized monitoring, querying and reporting.
* Set up system for dynamically adding and removing web services from a server using **Docker**, Nginx.
* Created repositories according the structure required with branches, tags and trunks.
* Attended sprint planning sessions and daily sprint stand-up meetings.
* Configured **Docker** container for branching purposes.
* Created images and stored in the Docker containers and uploaded to the **Docke**r hub.
* Configured application servers (JBOSS) to deploy the code.
* Used sub modules in the **GIT** and educated users working with sub modules in GIT.
* Configured plugins for the integration tools to the version control tools.
* Worked with the developers to configure plugins trough Eclipse to develop the code.
* For check in process used Tortoise **SVN** as a migration tool.
* Involved in migration of **Bamboo** server, Artifactory&Git server.
* Responsible for writing Hooks and Triggers using Python. Built Java application using ANT.
* Good in provisioning and deployment tools like **Chef.**
* Developed unit and functional tests in **Python** and **Ruby.**
* Used configuration management tools **Ansible**, Chef, Udeploy and CF Engine.
* Used Puppet and MCO for Configuration Management tool.
* Developed and maintained **Python** /**Shell** scripts for build and release tasks.
* Extensively used ANT tool to do the builds, integrated ANT to Eclipse and did local builds.
* Integrated Maven with Jenkins for the builds as the **Continuous Integration** process.
* Involved in Upgrade of **Bamboo**&Artifactory Server.
* Build Java code and .NET code on to different Jenkins servers as per the schedule.
* Maintained **JIRA** for tracking and updating project defects and tasks.
* Managed and document all post deployment issues utilizing the Post Deployments Issue Log.
* Involved in Customization of WorkItems, Transition Matrix in TFS.
* Organized a daily stand-up post-deployment meeting to review all issues being tracked. Ensure every issue has an owner and that it is resolved while capturing the specific details about the issue, resolution, and which organizations and individuals provided the resolution.
* Documented all post-deployment issues in a log and assist in resolving these issues where applicable, maintaining timely updates within the log. Manual and Automation process of creating branches tags and code merging

**Environment:**Chef, Ruby, Ansible, Power Shell Scripting, Subversion, Perforce, Cassandra, Hudson/Udeploy, Marathon, Jira, Bamboo, GIT, (WAS), Web services, Web Logic, Puppet, Rackspace, Test Director, Mercury, Quality center, Visual Build, .Net, ANT, TFS 2008/2010(Team Foundation Server), Jenkins, J2EE, Web sphere.

**Client: MasterCard, St. Louis, MOAugust 2014 - February 2016**

**Role: Sr. Devops/Cloud Engineer**

**Responsibilities:**

* Maintained and administered **GIT** source code tool.
* Created Branches, Labels and performed Merges in Stash and **GIT**.
* Developed processes, tools, automation for **Bamboo** based software for build system and delivering SW Builds.
* Troubleshooting and monitoring of various proprietary Acxiom and 3rd party applications using Splunk and **Cloud Watch** in the Amazon Web Services (**AWS**) environment.
* Managed build results in Jenkins and deployed using workflows.
* Worked on building data center with **AWS**. Installed SVN, GIT, Jenkins images on **AWS**.
* Hands on working knowledge on following AWS services like EC2, S3, VPC, EBS, ELB, Auto Scaling, **Cloud Watch**, **Cloud Trail**, **IAM**, **SNS**, SQS, RDS, DynamoDB, cloud front etc.
* Wrote custom monitors for Cloud Watch.
* Puppet Manifests to provision complex multi-node applications composed of Python, Node, Apache, Nginx Passenger, Unicorn, Elastic Search, **Hadoop**, and **MySQL.**
* Experienced in writing Python scripts for **Cookbooks** in **Chef**.
* Familiar and experienced with bug ticketing tool **Jira.**
* Troubleshooting with **Rackspace, Imperva** and various issues on **ssh, ftp, telnet etc**.
* Experienced in Installing, Configuring and Monitoring using NAGIOS, Sitescope and GRAPHITE.
* Experienced with **ETL** tool for Data entry and Data retrieval (OLTP).
* Maintain and track inventory using **Bamboo** and set alerts when the servers are full and need attention.
* Modeled the structure for multi-tiered applications orchestrate the processes to deploy each tier.
* Developed build and deployment scripts using **Gradle** and **MAVEN** as build tools in Jenkins to move from one environment to other environments.
* Have used Confluence to create, share and discuss content and projects.
* Familiar and experienced with Agile Scrum development.
* Monitored and reporting using graphs using Nagois to show the developers and management when performance issues are reported by the customers.
* Set up ElasticSearch, Logstash and Kibana for multiple clusters, helping other teams quickly access new job logs.
* Indexed data in ElasticSearch using the river plugin. Queried data using the elastic search API.
* Using ANT, Udeploy, **Ansible**/**Chef**, Scripts with Ivy to build the application and deploy.
* Proposed and implemented branching strategy suitable for agile development in Subversion.
* Created Branches, and performed Merges in Source Tree &**Stash**
* Installed and configured Jenkins for Automating Deployments and providing an automation solution.
* Integrated GIT into Jenkins to automate the code check-out process.
* Used Jenkins for automating Builds and Automating Deployments.
* Very strong Project Management experience performing ITIL RM /SCM activities.
* Knowledge of concepts in code lines, branching, merging, integration, versioning, etc.
* Excellent problem solving, analytical skills and technical troubleshooting skills.
* Clarity and precision in verbal and written communications.
* Worked with customers, developers, testing, product management and support staff.
* In-depth understanding of large complex software systems to isolate defects, reproduce defects, assess risk and understand varied customer deployments.

**Environment**: Git, Chef, Windows Solaris, Linux, C++, Java, Eclipse 3.20, Ant, Maven, Bamboo, Jira, JBoss Application Server, CVS, Subversion, Ruby, VTFS, Jira and Cygwin, Cassandra, Elastic search, Log stash, Nagios, Gradle, Udeploy.

**Client: FM Global, Johnston, RI May 2012 – July 2014**

**Role:Devops Engineer**

**Responsibilities:**

* Installed and configured AnthillPro /Bamboo for Automating Deployments and providing a complete automation solution.
* Heavy scripting in Python and bash to build highly available server environments for teams deploying core products and services. Using AWS SDK built tools that automated AWS server provisioning, automated application deployments, and implemented basic failover between regions.
* Deployed and administered virtualized Linux infrastructure on Amazon AWS, and RackspaceCloud. Built custom scripts, workers and clients utilizing AWS SDK to manipulate Amazon EC2and S3 resources.
* Wrote CFengine bundles to make the implementations reusable.
* Created continuous integration system using Gradle, Jetbrains, Team City, full automation, Continuous Integration, faster and flawless deployments.
* Managed and analyzed Customer/Functional requirements, Generic UI Specification, Application use-case.
* Made proposals for architecture definition of external application integration on top of Stack. Design, Implementation, Debugging and Bug Fixing(Jira). Documentation of release documents.
* Migrated Splunk from a search head pool to a fully clustered environment.
* Worked on a PoC to improve cloud deployment reviewing CloudFormation, Chef and Terraform.
* Created custom Splunk and dashboards and reports to reduce user requests.
* Created all Splunk integration for containers with Redhat’s PaaS.
* Managed the build and release process for NAPI modules.
* Interface design development and maintenance. Sanity, Functional testing & Documentation of NXP system solution reference design updates.
* Used Build Forge for enterprise scale infrastructure configuration and application deployments.
* Scale up the applications by using Marathon, Mesos.
* Integrated Subversion into AnthillPro/Bamboo to automate the code check-out process.
* Build Results are managed in AnthillPro and deployed using workflows in Anthill Pro.
* Performed setup of clustered environment setups with Websphere Application Server.
* Wrote Ruby scripts to perform deploys to tomcat Webserver and WebSphere App Servers.
* Proposed and implemented branching strategy suitable for agile development in Subversion.
* Imported and managed multiple corporate applications in Subversion (SVN).
* Provided end-user training for all Subversion (SVN) users to effectively use the tool.
* Owned build farm and produced effective multiple branch builds to support parallel development.
* Managed the entire Release Communication and Co-ordination Process.
* Maintained the Shell and Python scripts for the automation purposes.
* Deployed the static content into the web servers like Tomcat, IPlanet, and IBM HTTP Server.
* Deployed Dynamic content to Application servers like WebSphere and WebLogic.
* Involved in maintaining and editing Jython scripts for application deployment automation.
* Involved in editing the existing ANT/MAVEN files in case of errors or changes in the project requirements.

**Environment:**Solaris, Linux, windows, CVS, Chef, Java, Ruby on rails, Python, Eclipse, Ant, Bamboo, Maven, Install Anywhere, Tomcat Apache Application Serve, Splunk, Jira.

**Client: Mayo Clinic, Rochester, MN January 2011–April2012**

**Role: Sr. Build & Release Engineer**

**Responsibilities:**

* Working with the business analysts to review the requirements and preparing technical specifications document.
* Developed web based user interface using Struts, JSP, JavaScript, AJAX technologies
* Developed forms validation using JavaScript and used Struts validator mechanism for server side validations.
* Designed and implemented Subversion and GIT metadata including elements, labels, attributes, triggers and hyperlinks
* Led **Jenkins** continuous integration server installation and configuration for all **GIT** Repositories.
* Responsible for versioning the source code, releasing binary files, release files, creating and applying labels on source files.
* Created analytical matrices reports, dash boards for release services based on **JIRA** tickets.
* Developed **Perl** and **shell** scripts for automation of the build and release process.
* Implemented **Gerrit**Code review tool and integrated it with **Hudson** to trigger builds once the commit is being uploaded to **Gerrit** dashboard.
* Defined instances in code, next to relevant configuration on what running and then created the instances via **Puppet.** Configured multiple **Windows** and **Linux Slaves** for **Jenkins Master** to distribute the load across all the machines.
* Configured **Jenkins** to implement nightly builds on daily basis and generated change log that includes changes happened from last 24 hours.
* Good experience writing Manifests, Modules using Industry Best Practices for both Deployment Automation and Infra Configuration Management.
* Peer Reviewing Puppet Code and providing advice.
* Testing modules with rspec-puppet before uploading to puppet server.
* Practical/hand-on knowledge on using Mcollective, Hiera in conjunction with puppet modules.
* Practical understanding and experience in scaling puppet with 100’s of agents and few puppet servers.
* Used Gradle and MAVEN as build tools on Java projects for the development of build artifacts on the source code.
* Introduced, Installed and Configured Team City for Continuous Integration.
* Worked on sprint backlog and product backlog to implement system setup, user logging activity, database design and implementation, GUI development.
* Updating the SVN log properties for revisions. Setting up the SVN sync servers, changed rev properties for SVN sync.
* Used JQuery to display slide show of available items, display data table with column sorting.
* Configured application server to create the data source for database connection pool.
* Designed and developed XML presentation using CSS & XSLT.
* Created Web Service implementation class and deployed to web application server.
* Ansible Scripts with Ivy to build the application and deploy.
* Used "ant" to build the application and Subversion as source code control system.

**Environment:**Java 5.0, Git, Servlets 2.4, JSP 1.2, JSF, Gradle, SVN, Hibernate 3.0, JUnit, XML, JSON, Web Services, Java Script, CSS, Ant, SQL, Puppet.

**Client: National Life Insurance, Montpelier October 2009 – December 2010**

**Role:Build & Release Engineer**

**Responsibilities:**

* Automated both **.Net and Java Applications** using industry's best automation **tool Hudson.**
* **End to End automation** from Build to Production is implemented.
* All un-authorized access is revoked and Principle of Least privilege is applied with the aid of these tools.
* **ITIL best practices** were brought in to the normal SDLC process and lead the effort of bringing change in the organization.
* Facilitating the projects in Quality related activities as per **QMS** process.
* Maintenance of Configuration items in Harvest.
* Generalizing **Audit Trail Reports and Time Sheet Report**.
* Prepared mock cutover plans and cutover plans for **Pre-Prod and Prod Deployments.**
* Conducting and Attending Project Status **Review Meetings and Casual Analysis** Meeting for release activities.
* Prepare the resources (People and environments) for the **build / Releases.**
* Conducting the configuration audits as per schedule and Report the configuration audit findings and Track the findings to closure.
* Feedback on status of project release to the PM periodically.
* Publish the changes with respect to **CI's** and amend affected documents periodically.
* Ensure that back-ups are taken periodically.
* Creating the release responsible as instructed by the PM.
* Responsible for the build and release management process.
* Responsible for automated **build scripts and build issues**.
* Coordinating with development teams to perform builds and resolve build issues.
* Provide complete phone support to customers.
* Setup and debug hardware related issues for server builds.
* Coordinated with developers, Business Analyst and Mangers to make sure that code is deployed in the Production environment.
* Troubleshoot tickets on the **helpdesk tracking system**.

**Environment:** ANT, Maven, Web logic, Perl Scripts, Shell Scripts, LINUX, SVN, Hudson.

**Client: Aurobindo Pharma, Hyderabad, India June 2008 – September 2009**

**Role:Linux System Administrator**

**Responsibilities:**

* Monitor and analyze servers and resolve any problems, maintain systems reporting, tuning.   
  Created users, manage user permissions, maintain User & File system quota on Linux servers.
* Configured volume groups and logical volumes, extended logical volumes for file system growth needs using Logical Volume Manager (LVM) commands.
* Maintaining integrity of security with the use of group policies across domains supporting users through email, on call and troubleshooting.
* Maintaining inventory of all components including systems and other hardware performed User Account management, data backups, and users' logon support.
* Maintaining user's data backup by creating user folder in File Server and Applying Security permission on folders.
* Created and modified application related objects, created Profiles, users, roles and maintained system.
* Wrote Shell script to configure the WebLogic application server in all environments.
* Monitored trouble ticket queue to attend user and system calls. Attended team meetings, change control meetings to update installation progress and for upcoming changes in environment.

**Environment:**RHEL, HCMP, LVM, Apache1.3, DNS, NFS, NIS, Oracle 8i TSM, Work Load ManageruPAR, VERITAS Netback up, NIM, Samba, Dell Power Vault, Storage TEK, L700.

**EDUCATION:**

* Bachelors of Technology in Computer Science Engineering, India.