**RAHUL SAI**

**Cloud DevOps Engineer**

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***PROFESSIONAL SUMMARY***

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* Professional with Over 8+ years of comprehensive experience in the areas of DevOps, **AWS Cloud**, **CI/CD pipeline, Build/Release Management and Linux/Windows** Administration, Configuration, Production support, in-depth knowledge of cloud computing strategies.
* Had a great experience on **Kubernetes** and **Docker** from containerization and container management side.
* Worked on **JIRA** **Agile** projects like Creating **Scrum/Kanban boards**, configured columns, Filters and Reports for **Sprints**.
* Experience installing/upgrading **Jenkins/Bamboo/Team City** infrastructure on multiple servers.
* Design **Terraform**/**Ansible** templates to create custom sized **VPC**, **subnets**, **NAT** to ensure successful deployment of Web applications and database templates.
* Automated several processes by developing utilities in **Shell and Python scripting**
* Responsible for on boarding application teams to build and deploy their code using GitHub, Jenkins and Ansible
* Build clouds with AWS, AZURE and Rackspace.
* Experience with Build Management tools like Ant and Maven along with ability to create, debug, diagnose and troubleshoot build scripts.
* Worked on Docker container snapshots, attaching to a running container, removing images, managing directory structures and managing containers.
* Experience in Linux/Unix environment (RHEL, CentOS, and Solaris).
* Implemented Continuous Integration and deployment using various CI Tools like Jenkins, Hudson, Bamboo, Chef, Puppet and Sonatype Nexus.
* Experience in working on source controller tools like GIT, GITHub, Subversion (SVN), TFS Microsoft Visual Studio and Perforce.
* Skilled in monitoring servers using Nagios, Datadog, Cloud watch and using ELK Stack Elastic Search Logstash.
* Experienced using different log monitoring tools like **Splunk**, **ELK** (Elasticsearch, Logstash, Kibana) for to see logs information, monitor, get the health & security notifications from nodes.
* Created custom policies using **IAM** (Identity Access Management) for AWS Cloud resources and Groups and maintained IAM roles and User credentials
* Deployment of Cloud service including **Jenkins** and **Nexus** on **Docker** using **Terraform**.
* Building/Maintaining **Docker container** clusters managed by **Kubernetes** also Used **Kubernetes** to orchestrate the deployment, scaling and management of **Docker** Containers.
* Experienced with principles and best practices of **Software Configuration Management (SCM)**in **Agile, scrum, and Waterfall**methodologies.
* Hands on Experienced AWS Cloud platform and its features which includes **EC2, VPC, EBS, AMI**, Cloud **Watch, Cloud Trail, Cloud Formation AWS** Config, **Autoscaling, IAM, S3, R53**.
* Experienced in designing **AWS** cloud models for Infrastructure-as-a-Service (IaaS), Platform-as-a-Service (PaaS) and Software-as-a-Service (SaaS).
* Experience in working with continuous integration using Jenkins, setting up the build pipeline and security to Jenkins environment.
* Worked in CM tools – **ANSIBLE** and chef for Deployment on Multiple platforms.
* Planning and implementation of data and storage management solutions in Azure (**SQL Azure, Azure files, Queue storage, Blob storage**). Implementing scripts with PowerShell.
* Experience in Running Ansible ad-hoc commands, automate few actions with ansible playbooks, creating ansible roles for the setup of a simple machine type, roll out of the first machines completely managed, migration of all machines to ansible.
* Experience in assigning the **azure** services on locations specific to integrate with web-apps and key-vaultS

**Education Details:**

Bachelor’s in mechanical engineering **Year:** 2011

**University:** JNTUH

**Technical Skills**

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| **Cloud Computing** | Amazon Web Services VPC, EC2, S3, EBS, IAM, RDS, ELB, Route 53, Auto Scaling, Cloud Watch, GCP, Azure |
| **Operating system** | Linux (RHEL (Red Hat 4/5/6/7), CENTOS & SUSE), Solaris 11/10/9/8, HP-UX 11.0, 11.11, 11.23, 11.31, HPUX11i V1, V2 & V3, Ubuntu 12/13/14, Windows NT /2000/2003, DEBIAN. |
| **Application Servers** | WebLogic Application server 9.x, 10.x, Apache Tomcat 5.x/7.x, Red Hat JBoss 4.22. GA Web Sphere 6.x/7.x/8.x |
| **Version Control** | GIT, Subversion (SVN), Bitbucket, GitHub |
| **IDE/Build Tools** | Maven, NodeJS, ANT |
| **Binary Repositories** | Nexus, Artifactory. |
| **Configuration Management Tools** | Ansible, terraform, Chef |
| **Code Review Tool** | SonarQube. |
| **CI/CD Tools** | Jenkins, Team city |
| **Infrastructure Code:** | Cloud Formation, Python Boto3, Terraform |
| **Containers** | Kubernetes, Docker |
| **Languages** | C, C++, SQL, PL/SQL, Shell Scripting, Java script, Python, Ruby JSON, XML, YAML |
| **Database** | MongoDB, Oracle, SQL server, MySQL |
| **Web servers** | Tomcat, APACHE 2.x, 3.x, JBOSS 4.x/5.x, Web Logic (8/9/10), Web Sphere4.0/5.0 and nginx |
| **Networking/Protocol** | DNS, DHCP, CISCO Routers/Switches, Palo alto, WAN, TCP/IP, NIS, NFS, SMTP, LAN, FTP/TFTP, Juniper, Cisco |
| **Platform** | Linux/Unix, Windows |
| **Bug Tracking Tools** | Bitbucket, JIRA, Confluence. |

**Client: CNH Global**

**Location: Burr Ridge, IL  April 2020 – Till Date**

**Role: AWS Cloud Engineer**

**Responsibilities:**

* Used **Terraforms** to launch **EC2 instances** by writing a configuration file and destroy them if not required.
* Implemented CI/CD for all the Microservices of the OEM application using Jenkins, Maven, and Ansible.
* Experience in setting up **CI/CD** pipeline integrating various tools with CloudBees Jenkins to build and run **Terraform jobs** to create infrastructure **(IAAS)** in AWS
* Using Ansible to Setup/teardown of **ELK stack** (**ElasticSearch, Logstash, Kibana**)
* Run a single command on the nodes to provision the Infrastructure of the organization using **Terraform**.
* Used **Terraforms** to set up the **AWS infrastructures** such as launching the **Ec2** instances, **S3** buckets objects, **VPC**, **Subnets**.
* Used monitoring services like **Cloud Watch** to monitor the CPU utilization.
* Responsible for the Virtual Hosting infrastructure integration, deployment, monitoring, compliance, or other routine tasks.
* Incorporated NAT Gateways for Private IP Address/Subnet connections.
* Migrated an On-premises virtual machine to **Azure Resource Manager** **(ARM)** Subscription.
* Configure continuous integration from source control, setting up build definition within Visual Studio Team Services (**VSTS**) and configure continuous delivery to automate the deployment of [**ASP.NET**](http://asp.net/)**MVC applications to Azure web apps.**
* Hands on experience in **Azure** **cloud services, Azure storage, Azure active directory, Azure Service Bus.** Create and manage **Azur**e **AD** **tenants** and configure application integration with **Azure AD.**
* Deployed **Azure** **IaaS** **virtual machines (VMs) and Cloud services (PaaS role instances**) into **secure VNets and subnets**.
* Collaborate with **Engineers, Operations** and other teams to ensure **application, network and** **system monitoring** best practices
* Maintained **Jenkins** servers to deploy into **production and non-production environments**.
* Managed the **artifacts** generated by **Maven** in the **Nexus repository**
* services, deployments, labels & health checks.
* Experience in **Jenkins** to automate most of the build related tasks. Expertise in staging and creating **CI/CD** pipelines and Merge changes through **SDLC** pipeline **Jenkins** and Continuous Integration.
* Automated the tasks with **Ansible Playbooks** by using **YAML functions** and migrating the servers with the required configuration changes and testing and deploying the machines using Ansible Commands.
* Created **Docker images** using **Docker files**, worked on **Docker** container **snapshots**, removing images and
* Hands-on with **Git / GitHub** for code check-ins/checkouts and branching etc.
* Worked on Designing and building the internal **Kubernetes** architecture.
* Automating configuration management system using **Ansible**
* Developed **Ansible** playbooks and make changes on the remote **Kubernetes clusters**.
* Helped in day to day **troubleshooting of services** to formulate new ways to proactively catch problems.
* Setting up the **(ELB)** to send traffic to all instances in the availability zone
* Used Elasticsearch for powering not only Search but using **ELK stack** for logging and monitoring our systems end to end Using Beats.
* Implementation of cloud services IaaS on ASW platform
* Involved in design, implementation and modifying the **Python** code
* Designing, deploying and maintaining the application servers on AWS infrastructure, using services like EC2, RDS, S3, Glacier, Autoscaling, VPC, EBS, AMI, Cloud Watch, Cloud Trail, Cloud Formation, Lambda, Route53, IAM, etc.
* Infrastructure design for the ELK Clusters.
* Managed hosted Zone and domain name service using **Route53**.
* Experience with container-based deployments using Docker and working with Docker images, Docker hub and **Docker Registries**.
* Developed Templates for **AWS infrastructure** as a code **(IAAS)** using Terraform to build staging and production environments.
* Managed **Clusters** using **Kubernetes** and worked on creating many pods, replication controllers,
* managing **Docker** volumes and experienced **with Docker container service**.
* Implemented **Kubernetes** to deploy scale, load balance, scale and manage **Docker containers with** multiple namespace versions.
* As a part of initiation helped Provide analyst supporting consultation on **risk management controls** to involved stakeholders and partners with them to effectively manage **third party risk** as a prior experience which come across **ISMS 27001** controls.

**Environment:** Git, Jenkins, AWS (CLI, CDK, Cloud watch, Cloud Formation Maven, Direct Connect, Tomcat, JIRA, Shell Scripts, Nagios, Docker, Kubernetes, Ansible, YAML, AWS, Python.

**Client: QVC**

**Location: Westchester, PA FEB: 2019 – March 2020**

**Role: DevOps Engineer**

**Responsibilities:**

* Automate, configure and deploy instances on **GCP, Azure** cloud environments.
* Created **Azure Automation Assets**, Graphical runbook**, PowerShell** runbook that will automate specific tasks, deployed **Azure** **AD Connect**, configuring **Active Directory Federation Service (ADFS)** authentication flow, **ADFS installation** **using Azure AD Connect**, and involved in administrative tasks that include **Build, Design, Deploy of Azure environment**.
* Creating, validating and reviewing solutions and effort estimate of converting existing workloads from classic to **ARM based Azure** Cloud Environment
* Installed, Configured and maintained of some of the **Windows Servers.**
* Building/Maintaining **Docker** container clusters managed by **Kubernetes, Linux, Bash, GIT, Docker**, on **GCP**.
* Integration with **Splunk** for API traffic monitoring and health checks.
* Design solutions and concepts for data aggregation and visualization. **Splunk** deployment, configuration and maintenance across a variety of **UNIX** and **Windows** **platforms**. Able to troubleshoot **Splunk server** problems and issues.
* Expertise in the **Jenkins** **plugin** **management** areas and implemented several CI / CD plugins like **build pipeline, bit bucket, and pipeline plugins.**
* Experience with Setting up **Chef** **infrastructure**, **Chef-repo and Boot strapping** chef nodes.
* Experience in writing complex **cookbooks**, **recipes** and configure them by applying node convergence on **various production nodes**.
* Used **Knife** and **Chef Bootstrap** processes and worked on **chef server** management console with proficient
* Developed build using **MAVEN** as build tools and used **CI tools** to kick off the builds move from one environment to other environments.
* Participated in the release cycle of the product which involves environments like developments **QA and production**.
* Created, Configured and Administered **Jenkins** servers with Master-slave configurations as needed.
* Hands on experience with programming languages such as **Java, Java script, C, C++, ASP, Visual Basic. (perl, python as well)**
* Developed **shell** scripts to automate startup and stop processes, automated **WebSphere, Weblogic environment** (deploying the customer applications, logs rotation, monitoring application server status, recycling the application server) with shell scripts.
* Hands on experience with **WebSphere, JBoss and WebLogic** deployments.
* Virtualized the servers using the **Docker** for the test environments **and Dev-environments** needs and configuration automation using **Docker containers**.
* Experience in using **Kubernetes** to orchestrate the deployment, scaling and management of **Docker containers.**
* Used the **JIRA**, **Confluence** for bug tracking, creating the dashboard for issues.
* Created branches from within **JIRA** and **JIRA** A**gile** by integrating the Bitbucket with **JIRA**.
* Proficient in deployment of WAR and EAR files in domain and clustered environments.
* Generated reports using **JIRA** for creating projects, assigning permissions to users and groups for the project and created mail handlers and notifications schemes for **JIRA.**
* Created **Azure** **services using ARM templates** (**JSON**) and ensured no changes in the present infrastructure while doing incremental deployment.
* Acted as **build and release engineer**, deployed the services by **VSTS (Azure DevOps)** pipeline. Created and **Maintained** pipelines to manage the **IAC** for all the applications
* knowledge on all different components like **chef server, nodes and workstations**.
* Authored **Chef** **Cookbook** and recipes to automate the deployment process and to integrating chef cookbooks into Jenkins jobs for a continuous delivery framework.
* Worked on **Bit Bucket** like creating different branches such as develop, release, and feature branches.
* Automated setting up server infrastructure for the DevOps services**,** using **Ansible**, **shell** and **python scripts**.
* Setup **Jenkins** tool to integrate **the JAVA project** and maintained **Jenkins** with continuous integration and deployment
* Involved in defining, documenting, negotiating, and maintaining **Product/Application Release Roadmap.**
* Experience in writing **Jenkins** Pipeline **Groovy** Scripts for **Continuous Integration** and build workflows and Used Jenkins uploading **Artifacts** **into Nexus Repository** and Automated various day-to-day administration task by developing **Bash, Ruby, JSON.**

**Environment:** Bitbucket, **GITLAB**, RTF, AWS, Kubernetes, Docker, JIRA, Nexus, Aritfactory, WebLogic, Groovy, Bash, Ruby, JSON, Chef, Yaml, Azure, GCP.

**Client: Lutron Electronics**

**Location: Coopersburg, PA NOV 2016 – Dec 2018**

**Role: DevOps/Build and Release Engineer**

**Responsibilities:**

* Installation, configuration and Operating System upgrade on **Red Hat Linux**
* Release Engineer for a team that involved different development teams and multiple simultaneous **software releases** and implemented **Continuous Integration Process**
* Migrated an **On-premises** virtual machine to**Aws** cloud platform.
* Troubleshooted Production issues pertaining to **AWS Cloud Resources** and Application Infrastructure (Iaas) point of view
* Worked on XLR workflow lead generation while using **Jenkins**
* Troubleshooting any build issue with **ELK** and work towards the solution
* Responsible to designing and deploying new **ELK clusters** (Elasticsearch, logstash, Kibana, beats, Kafka, zookeeper etc.
* Involved in **DevOps migration/automation processes** for build and deploy systems
* Experience with automation on **Linux/Unix** servers using **shell scripting**
* Created multiple **Python**, **Bash, Shell and Ruby Shell Scripts** for various application level tasks.
* Manage internal and external build, packaging, and release projects
* SPOC for all **ELK** related **requests/issues**.
* Build, manage, and continuously improved the build infrastructure (**Iaas**) for global software development engineering teams including implementation of build scripts, continuous integration **infrastructure** and deployment tools.
* Build **Java code** on to different **Jenkins servers** as per the schedule.
* Worked in all areas of **Jenkins** setting up **CI** for new branches, build automation, plugin management and securing Jenkins and setting up master/slave configurations.
* Installation of patches and packages using **RPM** and **YUM** in **Red hat Linux**
* Implement various codes in software programs to **integrate with build environment**
* Provide the support of building the server, patching, user administration tasks, deployment, software installation, performance tuning and troubleshooting.
* Worked in areas of **Jenkins** setting up **CI** for new branches, **build automation**, **plugin management** and **securing Jenkins** and setting up master/slave configurations.
* Disk and File system management through **Solstice Disk Suite** on **Solaris** and other logical volume manager.
* Monitoring system performance, tune-up kernel parameter, adding /removing /administering hosts, users, disks on **DNS / NIS domain**.
* Automated the Build & Deployment environment end -to-end using **Jenkins**
* Monitored overall system performance, performed user management, system updates and disk & storage management
* **Design develop build and packaging tools** for **continuous integration** build and reporting. Automate the build and release cycles.
* Wrote bash shell scripts for getting information about various **Linux servers**
* Created and maintained user accounts in **RedHat** Enterprise Linux **(RHEL)**
* Experience in working with monitoring tools like **Nagios** to trigger the event handlers to send a notification and act according to the script.
* Configuring distributed file systems and administering **NFS** server and NFS clients and editing auto-mounting mapping as per system user requirements.
* Experience working on **Splunk** Environments and Clustered **Splunk Environments** on Linux and Windows operating systems.

**Environment:** RedHat Enterprise Linux, Bash, Apache, Tomcat, XLRelease, YUM, RPM,Python Nagios, Splunk, Git, Aws on-premise migration.

**Client: Accurate Systems INC**

**Location: Hyderabad, IND June 2014 – OCT 2016 Role: Senior System Engineer**

**Responsibilities:**

* Implement, install, operate, and maintain systems hardware, software applications and Information Technology infrastructure.
* Create, adapt, and maintain system configurations using Puppet, and assist in migrating off legacy **CFEngine** tools
* Strong experience in System Administration, Installation, Upgrading, Patches, Migration, Configuration, Troubleshooting, Security, Backup, Disaster Recovery, Performance Monitoring and Fine-tuning on UNIX ( SUN Solaris, Red Hat Linux) Systems.
* Provide hardware and software engineering support for Information Systems utilizing object oriented programming and client / server applications.
* Metrics collection, graphing, and trending
* Working experience in Nagios network monitoring software administration tools.
* Develop Linux/bash/other scripts and tools to aid development operations
* Perform functional analysis and cost – benefit studies to determine proper allocation of resources.
* Evaluate customer or product requirements to develop total systems solutions within project timelines and cost constraints.
* Collaborates on **architectural framework** for system development, maintenance, and enhancement efforts
* Oversee the testing and **monitoring** of applications and systems performance.
* Executed software and hardware upgrades as needed or scheduled, including emergency roll-outs.
* Performed all systems administration duties, including configuration and maintenance of network services such as Web servers, **WINS, DHCP, DNS, FTP** on both Windows and Linux-based environments.
* Knowledge of AMQP / RabbitMQ
* Knowledge of Apache, Tomcat, Ant, Maven, and / or other web technologies

**Environment:** YUM, RPM, WINS, DHCP, DNS, FTP , Knowledge of AMQP / RabbitMQ, ANT, MAVEN Git, Jboss, Tomcat, VMware, TCP/IP, Nagios.

**Client: Fineline Graphics**

**Location: Hyderabad, India Jan 2012-May 2014 Role: Linux administrator**

**Responsibilities:**

* Experience in **LINUX/UNIX** Administration, Shell Scripting with expertise in **Red-hat/CentOS** **Linux 4/5/6, Solaris 8/9, VMware ESXi 4.5/5.5, WebLogic and WebSphere.**
* Planned and performed the upgrades to **Linux operating** **systems** and hardware maintenance like changing memory modules, disk devices, **SAS, SATA** & **SCSI** devices.
* Managed systems routine backup, scheduling jobs, enabling Cron jobs, enabling system logging and network logging of servers for maintenance.
* Utilizing **SAR**, **Netstat**, Iostat and **Vmstat** for performance analysis, tuning and capacity planning, problem prevention, detection and resolution.
* Use of **Logical Volume Manager (LVM),** creating volume groups, logical volumes and disk mirroring in **HP-UX and Linux**.
* Created virtual server on **VMware ESX/ESXi and Oracle Virtual box-based** host and installed operating system on guest Servers.
* Experience in writing **UNIX shell scripts** using commands like **awk, sed, tcsh, bash, ksh and perl to automate system admin jobs.**
* Experience working on User admin groups, maintaining account and monitoring system performance using **Nagios**.
* **Troubleshooting and analysis** of hardware and software failures for various **Solaris servers** (core dump and log file analysis).
* Production support of **Apache, Apache HTTPD, JBoss, Tomcat** including **installation, configuration, management and troubleshooting.**
* Troubleshooting user **SSH and user authentication. Configuring OpenSSL**.
* Updating kernel parameters.
* Writing **shell/Bash scripts** for **Automated Back- ups and Cron Jobs**.
* Installed and configured **Apache Web-servers and troubleshoot** problems arising from **Apache functionality.**
* Creating, extending and reducing **LVM's for** managing the disk storage space.
* Overseeing **migrations** from **physical to virtual.**
* Used **Maven** (POM.xml) and **Ant** scripts (build.xml) as build frameworks/scripts.
* Utilized **Linux Terminal Server** for removing fat client management, save on administration Provide users with a more reliable & secure environment.
* Utilize commands and utilities such **as iptable, netstat, ping to implement operating system and network security.**

**Environment:** YUM, RPM, RedHat Enterprise Linux, Bash, Apache, Volume Groups, ANT, MAVEN Git, Jboss, Tomcat, VMware, **netstat**