**Satish Rokkam**

**AWS/DevOps engineer**

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Professional Summary:

* **7 years** of Experience in Implementing **DevOps** strategy and **Linux Administration** with a good experience in Java Programming and windows servers in various environments of Linux along with adopting cloud strategies based on **Amazon Web Services.**
* Good understanding of the principles and best practices of Software Configuration Management (**SCM**) in **Agile** (**scrum**) and **Waterfall** methodologies.
* Provide 24\*7 support to resolve critical production issues and maintain schedule jobs and perform troubleshoot on process and resolve.
* Having work experience in support of multi-platforms like **Linux** and **Windows** of production, test and development server.
* Application and Analysis using different monitoring Customer specific tools such as Splunk/Autosys Monitoring and Ticketing tools such as ServiceNow etc.
* Experienced in AWS Cloud Computing services, such as **EC2, S3, API, Dynamo, EBS, VPC, ELB**, **Route53, Cloud Watch, Security Groups, Cloud Trail, IAM, Cloud Front, EMR, RDS** and **Glacier**.
* Excellent experience in documenting and automating the build and release process.
* Experience in automatic deploying of applications with **Amazon Lambda** and **Elastic Beanstalk.** Involved in designing and developing applications that use **MongoDB** and **DynamoDB** in AWS.
* Experienced in **Branching, Merging, Tagging and maintaining** the version across the environments using SCM tools like **GIT** and Subversion **(SVN)** on Linux platforms.
* Expertise on Source code control tools like **SVN**, Bitbucket (**Git**) and good knowledge on Branching and merging code lines in the GIT.
* Using **Jenkins** as an Amazon Web Services (AWS) Code Deploy plugin to deploy to **AWS**.
* Troubleshoot the build issue during the **Jenkins** build process.
* Involved in **Linux** Administration activities like troubleshooting of regular issues, configuration issues, applying patches, package management and file system issues.
* Good Interpersonal Skills, team-working attitude, takes initiatives and very proactive in solving problems and providing best solutions.
* Experience with configuration management using **Puppet, Chef** and container management with **Docker.**
* Excellent at defining **Chef Server** and workstation to manage and configure nodes. Developed **Recipes**, **Chef Cookbooks** to manage systems configuration.
* Implemented Continuous Integration and Continuous deployment using various CI Tools like **Jenkins/Hudson**, **Nexus** and **Build Forge**.
* Experience in writing build scripts using **ANT, MAVEN**
* Built Jenkins jobs to create **AWS**infrastructure from **GitHub**repos containing **Terraform**code
* Created various **Terraform scripts** to deploy **Kubernetes, Dev, QA and Pre-prod** environments in **AWS** Cloud.
* Involved in Development and Implementation of Continuous Integration (**CI**) and Continuous Deployment (**CD**) pipeline involving **Jenkins**, **Ansible**, **Terraform** and **Docker**containers to complete the automation from commit to deployment
* Worked on creating the modules driven **AWS** infrastructure with **Terraform**. Created infrastructure **Git** repositories for **Terraform** to launch the stack.
* Having good Knowledge in **SQL Development** and **Database administration**.
* Experience in writing SQL scripts for **Oracle 10g, 11g** and **SQL Server**.
* Ability in managing all aspects of the software configuration management process including **code compilation, packaging, deployment, release methodology** and **application configurations**.
* Maintained the **Citric** system by implementing the security systems such as monitoring the access and performing the routine checks
* In-depth understanding of backup and **recovery procedures** to ensure database integrity.
* Hands On developing and executing Shell Scripts and **Python Scripting** to automate various system tasks and deployment of applications to testing/production environments using Python OS.
* Involved in writing **Python, Perl and shell scripts** for compilation and deployment process.
* Experienced in Administration of Production, Development and Test environments carrying **Windows**, **Ubuntu, RedHat Linux, Centos** and Solaris servers.
* Experience in working with linking of applications in AWS with websites using DNS service **Route53.**
* Experience on Virtualization technologies like **VMware, Vagrant**.

**Technical Skills:**

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| --- | --- |
| **Operating systems** | Linux (Red Hat 4/5/6/7, CENTOS & SUSE), Windows XP, 7, 10  Ubuntu 12/13/14. |
| **Cloud Platform** | Amazon Web Services (EC2, S3, EBS, RDS, ELB, Route 53, Auto scaling, Security Groups, CFT, SQS, SNS, Glacier, Lambda), |
| **Application Servers** | Tomcat, Apache, Web logic, WebSphere I planet and JBoss |
| **CI CD tools** | Ant, Maven, Jenkins, Bamboo, Docker, Kubernetes, Jira, Nagios |
| **Configuration Management tools** | Chef, Puppet, Ansible, Salt |
| **Monitoring tools** | Splunk, Cloud Watch, Apical |
| **Scripting** | Perl, Python, Ruby, Bash, Shell scripting, YAML, JSON |
| **Data base technologies** | Cassandra, Redis, Oracle, MySQL, Windows servers [2008 R2, 2012, 2012R2], SQL, Mango DB |
| **Version control tool** | Git, GitHub, Bitbucket, SVN |
| **Logging tools** | Elastic search, Kibana |
| **Virtualization Technologies** | Vagrant, VMWare |

**Work Experience:**

**Equifax– Windward Ridge, Alpharetta, GA Nov 2017 to Present**

**AWS/DevOps engineer**

***Job Responsibilities:***

* Implemented AWS solutions using **EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups**, Optimized volumes and **EC2**instances
* End to end deployment ownership for projects on **Amazon AWS** which includes scripting for automation, scalability, build promotions for staging to production
* Set-up **Jenkins AWS Code**Deploy plug-in to deploy to **AWS**
* Integrated **Amazon Cloud Watch**with **Amazon EC2**instances for monitoring the log files, store them and track metrics
* Created **AWS S3 buckets**, performed folder management in each **bucket**, Managed cloud trail logs and objects within each bucket
* Experience with **Terraform**to build infrastructure as a code
* Utilization of **Terraform** for automated infrastructure deployments (**AWS ELB, AWS EC2, AWS Security Groups, AWS VPC, AWS Key Pairs, AWS IAM)**
* Configured the **Load** **Balancers**and **VPC**with private subnets and performed troubleshooting for connectivity issues
* Creating fully automated **CI/CD** build and deployment infrastructure and processes for multiple projects   
  using **Jenkins, Docker, Kubernetes and GitHub**
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling, Kubernetes AWS infrastructure and micro service container orchestration.
* Manage and replicate infrastructure and instance configurations using **Terraform** and **Packer**
* Performed **GIT**/**Bit Bucket**migration and managed branching strategies using **GIT**flow workflow
* Built Jenkins jobs to create **AWS**infrastructure from **GitHub**repos containing **Terraform**code
* Created various **Terraform scripts**to deploy **Kubernetes, Dev, QA and Pre-prod**environments in **AWS**Cloud.
* Managed **Ansible Playbooks**with Ansible roles
* Used different modules to build custom Ansible **playbook** Service modules, File modules, Template modules, etc.
* Created inventory in **Ansible** for automating continuous deployment and wrote **Playbooks** using **YAML** scripting
* Involved in Development and Implementation of Continuous Integration (**CI**) and Continuous Deployment (**CD**) pipeline involving **Jenkins**, **Ansible**, **Terraform** and **Docker**containers to complete the automation from commit to deployment
* Worked on creation of multiple Amazon Machine Images (AMI) for multiple regions and different environments using Packer Scripts and automated in **Ansible playbooks**
* Built **Terr grunt** project to manage Terraform configuration file DRY while working with multiple terraforms modules
* Container management using **Docker**by writing Docker files and setup the **automated**build on Docker Hub and installed and configured **Kubernetes**
* Created clusters on AWS using **Kops**
* Created S3 buckets to store cluster configuration files using **Kops** CLI
* Working on Multiple **AWS**instances, set the security groups, **Elastic Load Balancer**and **AMIs**, **Auto**scaling to design cost effective, fault tolerant and highly available systems
* Worked with **Docker**for convenient environment setup for development and testing
* Installed **Docker**Registry for local upload and download of **Docker**images and even from **Docker**hub
* Perform **JIRA** administration, setting up new projects, creating new workflows, adding users to roles
* Implemented build stage to build the micro service and push the Docker container image to the private **Docker**registry

**Environment: AWS, Docker, Jenkins, Terraform, Kubernetes, Kops, Packer, JIRA, Micro Service, GIT, Maven, LINUX, Shell Scripts.**

**ETS, Princeton, NJ Feb 2016 to Sep 2017**

**DevOps Production Support Engineer**

***Job Responsibilities:***

* Workedondeploying**,** **monitoring**, and **maintaining** Amazon **AWS cloud infrastructure** consisting of multiple **EC2** **nodes** across different environments.
* Interacted with customers providing L1/L2 **support** to resolve their issue generally via Incidents or emails
* Created **S3 bucket** for Storage and backup as well as Utilized **AWS CLI to automate backups on ephemeral data-Storage,**
* Created the **security groups, Elastic Load Balancer and AMIs, Auto scaling** to design cost effective, fault tolerant and highly available systems.
* Performed abend/resolution and file maintenance per installation workflow instructions as needed and recorded incidents in worksite problem management log that jeopardized client service level agreements.
* Performed on-call activities and change control activities to update production tools and systems.
* Excellent experience in Installation and configuration of different databases on **Operating Systems UNIX and Windows platforms.**
* Creating **public** and **private** subnets within the VPC and deploying **EC2 instances** based on the requirement.
* Created the AWS infrastructure on cloud, from AWS cli using **terraform.**
* Setting up **IAM** user roles with corresponding user and group policies using **JSON**
* Worked on creating the modules driven **AWS** Infrastructure with **Terraform**. Created Infrastructure **Git** repositories for **Terraform** to launch the stacks.
* Provided security and managed user access and quota using **AWS** identity and Access Management (**IAM**), including creating new policies for user role management. Automated this process using **Terraform** along with **terra grunt**.
* Used **security groups,** **network ACLs, Internet Gateways, NAT instances and Route tables** to ensure a secure zone for organizations in **AWS public cloud.**
* Managed DNS using **AWS** **Route** **53** service and created AWS **Route** **53** to route traffic between different regions.
* Well Versed with Configuring Access for inbound and outbound traffic **RDS** DB services, **DynamoDB** tables, **EBS** volumes to set alarms for notifications or automated actions.
* Deployed and configured **Elastic** **search** **ELK**, **Log** **stash** and **Kibana** for log analytics, full text search, application monitoring in integration with **AWS** **Lambda** and **Cloud** **Watch**.
* Designed and implemented a data processing web service using Node.js to aggregate and calculate the uptime of thousands of servers from various data sources to **Elasticsearch**, displaying data in **Kibana**.
* Created **Ansible** supported **YML** scripts to restart Joss, Tomcat, and Jetty servers through GUI.
* Created **Ansible** **playbooks** for various automation purpose, file copy, permission changes, configuration changes, path specific folder creation.
* Implemented Continuous Integration using **Jenkins**.
* Installing/upgrading **Jenkins** infrastructure on multiple servers.
* Perform day-to-day operation and troubleshooting of **EC2 instances**.
* Used **Jenkins** with **Ansible** playbooks to run the deployment process.
* Created and managed a **Docker** deployment pipeline for custom application images in the cloud using **Jenkins**.
* Configure and ensure connection to RDS database running on **MySQL** engines.
* Responsible for Plugin Management, User Management, regular incremental backups and regular maintenance for recovery.
* Conducted performance testing of **Apache, Tomcat, Nginx** management services.

**Environment & Tools: AWS, Unix/Linux, Autosys, Ctrl-m, Splunk, Apical, SQL GIT, Bitbucket, VPC, Route53, EBS, ELB, Cloud watch, Cloud Formation, AWS Auto Scaling.**

**Renew Financial, Portland, OR Dec 2014 – Feb 2016**

**AWS/DevOps engineer**

***Job Responsibilities:***

* Configured Amazon EC2 instances and launching the new instances with same configuration using **AMIs (Amazon Machine Images).** Customized the machine images using **packer**
* Installed applications on **AWS EC2** instances and configuring storage on S3 buckets. Replicated S3 buckets cross region using **AWS CLI** commands and S3 bucket sync policy
* Experienceindeploying**,** **monitoring**, and **maintaining** Amazon **AWS cloud infrastructure** consisting of multiple **EC2** **nodes**
* Setting up **IAM** user roles with corresponding user and group policies using **JSON**
* Worked on creating the modules driven **AWS** infrastructure with **Terraform**. Created infrastructure **Git** repositories for **Terraform** to launch the stack.
* Used **security groups,** **network ACLs, Internet Gateways, NAT instances and Route tables** to ensure a secure zone for organizations in **AWS public cloud.**
* Worked on version control systems like **GIT** and used Source code management client tools like **Git Bash, GitHub, Git GUI** and other command line applications
* Generated scripts in **Maven**, **Perl** & **Bash, Shell** for build activities in QA, Staging and Production environments.
* Developed build and deployment scripts using **MAVEN** as build tools in **Jenkins** to move from one environment to other environments
* Installing/upgrading **Jenkins** infrastructure on multiple servers
* Used**Ansible** for configuration management of hosted Instances within **AWS**
* Automated various infrastructure activities like **Continuous** **Deployment**, **application** **server** setup, stack monitoring using **Ansible** **playbooks**
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python
* Implemented **Nagios** integration with **Ansible** for automation in server monitoring
* Used **Nagios** as a monitoring tool to identify and resolve infrastructure problems before they affect critical processes and worked on **Nagios** Event handlers in case of automatic restart of failed applications and services
* Configure and ensure connection to RDS database running on **MySQL** engines.
* Integrated **JIRA** with Jenkins to track change requests and bug fixes
* Responsible for Plugin Management, User Management, regular incremental backups and regular maintenance for recovery
* Conducted performance testing of **Apache**, **Tomcat, Nginx** management services

**Environment: AWS (EC2, VPC, ELB, S3, RDS, IAM, Cloud Trail and Route 53), GIT, Kubernetes, Terraform, Ansible, Docker, Maven, AWS CLI, AWS Auto Scaling, Unix/Linux, Shell scripting, JIRA.**

**Sixgen Technologies - Hyderabad, Telangana Sep 2013 to Oct 2014**

**DevOps Build /Cloud Engineer**

***Job Responsibilities:***

* Worked on designing and implementing continuous integration system using Jenkins by creating **Python** and **Shell** **scripts**.
* Implemented AWS solutions using **EC2, S3, RDS, EBS**, **Elastic Load Balancer, Auto-scaling groups**. Optimized volumes and **EC2** instances
* Created monitors, alarms and notifications for **EC2** hosts using **Cloud** **Watch**. Used Ruby to write **GIT** applications and **Chef** **Recipes.**
* Created **Chef** **Cookbooks** for sudo users and network configurations using **Chef** **Server**
* Wrote **Terraform** templates, **Chef** **Cookbooks**, **recipes** and pushed them onto Chef Server for configuring **EC2** Instances.
* Maintained and Administered **GIT** Source Code Tool. Defined dependencies and plugins in **Maven** **POM.xml** for various activities and integrated **Maven** with **GIT** to manage and deploy project related tags.
* Created Branches, Labels and performed Merges in **Stash** and **Bitbucket**.
* Worked with logging/monitoring tools such as **Splunk**, **Log** **stash**, **Cloud** **Watch** and **Nagios**.
* Developed Processes, Tools, Automation for **Jenkins** based Software for Build system and delivering S/W Builds. Managed Build results in Jenkins and Deployed using workflows.
* Used elastic search through **JSON** and **Java** **API**.
* Worked on Oracle Databases there by connecting different environments to these databases in lower and production environments. Automated the cloud deployments using **Puppet**, **Python** and AWS **Cloud** **Formation** Templates.
* Created and updated **Puppet** **manifests** and modules, files, and packages stored in the **GIT** repository.
* Lead Automation deployment team and worked with Puppet, written puppet modules for application deployment.
* Created artifact files by using **jar** **files** and **POM**.**xml** files.
* Created some new plugins by writing the scripts in **python** language.
* Creating **manifests** and classes in **Puppet** for automation, **AWS** **Terraform** templates for any automation requirements in **AWS** services
* Implemented, integrated and managed Perforce as well as instituting accurate and automated build and release methodologies for Binary compilation for **Apache** **HTTP/HTTPS**, **Tomcat**, **PHP** and **MySQL**.
* Involved in writing **SQL** queries to implement the schema related changes for internationalization and debugged the build errors using **SQL** queries to make sure Database is not corrupted.
* System Cloning, System Copy, and Data Refresh as agreed to by the business stakeholders.
* Designed and implemented fully automated server build management, monitoring and deployment by using **DevOps** technologies like **Puppet**.
* Designed and implemented scalable, secure cloud architecture based on **Amazon** **Web** **Services**.
* Created automation and deployment templates for relational and NoSQL databases including MySQL and Cassandra in AWS.

**Environment: Agile, EC2, S3, Bitbucket, GIT, Maven, Jenkins, Nexus, Puppet, Nagios WebLogic, TOMCAT, Python Scripts, Perl Scripts, Ruby Scripts, XML, Oracle, Unix.**

**Webroot Software Inc, India July 2012 – Sep 2013**

**Linux System Administrator**

***Job Responsibilities:***

* Installation of software, patching, upgrading and maintenance of OS. Installation, **upgrade and maintenance** of server hardware components as per requirement.
* Install and configure **Apache, Tomcat**, etc. Troubleshoot Windows 2003 Servers and streamlining the user policies.
* Patch installation, regular maintenance.
* Supporting 50+ Servers for multi locations.
* **Oracle** installation & system level support to clients.
* Amendment of existing scripts as well as writing new Bourne and Korn scripts related to repeated systems administration tasks.
* Troubleshooting and resolving of problems related to **hardware, operating syst**ems, third party applications and scripts.
* Backup Schedules for **Solaris** and **Windows Servers** using DLT Tape drives.
* **DNS, NFS, NIS** administration.
* Installation, Configuration of Web Servers using **Apache, IIS** on Solaris and NT Servers.
* Installation and configuration of Windows NT4.0, MS Back Office Products
* Network Solutions to various clients using Windows NT.
* Configuring **Windows 95, 98** and **NT** workstations in NT domains.
* Installation of **RAS** on Windows NT server.
* Managing User accounts using Active Directory.
* Escalating calls and incidents where necessary to senior managers & team leaders. Updating support documentation.
* Answering & responding to all calls & requests within agreed time scales.
* Keeping customers updated as to progress.
* Provide troubleshooting and configuration support for client desktop and networking environment.

**Environment: Windows Server 2003, Red Hat Linux v4/5, SQL, PL/SQL, shell scripts, SQL Load, Toad, Windows, Putty, Storage.**

**Education:**

**Bachelor of Engineering In Computer Science from JNTU. Ind**