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| **Santosh k**  **AWS/Devops Engineer**  [santoshk.dev3@gmail.com](mailto:santoshk.dev3@gmail.com)  Ph :(214)-838-1333 | Picture1.png |

**Summary:**

* Over 8+ years of experience on **Devops Engineer/AWS Cloud Engineer, Linux system administrator**.
* Experience in **AWS** Resources such as **EC2, S3, VPC, EBS,** dynamo DB(DDB), Code Build, Code Deploy, Code Commit, Elastic Beanstalk, **AMI,SNS**, **RDS**, **Cloud Watch**, **Route53**, **SQS, IOT**, **Cloud Front(CDN),Auto scaling, Security Groups**, and **Cloud Formation**.
* Understanding of cloud offerings in the marketing and ability to discuss cloud architectures; familiarity/Strength with AWS and related **AWS** services.
* Experienced in migrating on premise Database Servers(Homogeneous and Heterogeneous) and Application Servers to **AWS.**
* Experienced in Migrating Multi-tier Environments using **AWS Server Migration Service**.
* Knowledge of setting up Continues Golden AMI Vulnerability Assessment with **Amazon Inspector**.
* Excellent knowledge with **Amazon AWS** technologies, with a focus on highly scalable cloud-native architectural patterns, especially **EMR, Kinesis**, and **Redshift**.
* Worked in implementing entire CI/CD using Groovy scripting.
* Expertise in working with Aws environment, Linux servers for running business applications, Configuration Management Tools, Build, Deploy, Release Management and other tools.
* Experience on **Jenkins/Hudson, Subversion (SVN), Git, GitHub, Bitbucket, Eclipse, Red Hat (RHEL), Shell script, UNIX, Linux**, and **Windows Server**.
* Working exposure in **Build Release** management, **shell scripting**, **Unix System** administration**, Linux** Administration.
* Designed and implemented Software configuration management (SCM) and change management (CM) solution using **Ansible, Jira** and **Jenkins**,Configured **SonarQube** for code coverage.
* Experience in installing, maintaining, and troubleshooting **WebLogic, Apache Tomcat** and security software’s in **Linux.**
* Experience in working on Configuration Management Tools like **Ansible, Puppet** and **Chef**.
* Exposure in managing and setting up **Continuous Integration** using tools like **Jenkins, Docker.**
* Strong knowledge on source controller concepts like **Branches, Merges** and **Tags**.
* Ability in development and execution of **XML** and **Shell Scripts.**
* Exposed to all aspects of Software Development Life Cycle (SDLC) such as Analysis, Planning, Developing, Testing and Implementing and Post-production analysis of the projects.
* Performed Server health monitoring and system tuning as per vendor recommendations.
* Built and maintained **Elastic Search**, **Log Stash, Kibana** stack to centrally collect logs that are used to monitor applications.
* Quick analyzing and identifying ability of operational issues including good understanding of backups, deployment and load balancing techniques.
* Good exposure of **ANT**&**MAVEN** build tools.

**Technical Skills:**

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| **Build Tools** | Maven, Ant, Eclipse |
| **Bug Tracking** | Jira |
| **Web/Application Servers** | Apache, Apache Tomcat, nginx, Web logic |
| **SCM/Version Control Tools** | GIT, Bit bucket and SVN |
| **Automation container+** | Docker, VRA &VRO |
| **Continuous Integration Tools** | Jenkins |
| **Continuous Deployment tools** | Puppet, Ansible, Chef&Terraform. |
| **Cloud services** | Amazon Web Services(AWS),Microsoft Azure |
| **Scripting Languages** | Shell scripting, Groovy,Python. |
| **Operating system** | Unix, Linux (Ubuntu, Debian, Red Hat(RHEL), Centos) and Windows |
| **Programming Languages** | Python, C, C++,C#,Swift and Golang. |
| **Databases** | Rdbms, Mysql, MS SQL,Oracle, Amazon DyanamoDB&MongoDB,Postgres |
| **Web Services** | SOAP,REST. |
| **Pentest Tools** | Metasploit, NMAP, Wireshark and Kali. |
| **Routing** | OSPF, EIGRP, BGP, RIP-2, PBR, Route Filtering, Redistribution, Summarization, Static Routing. |
| **Firewalls** | Checkpoint, ISA 2004/2006 ,Palo Alto 3000/5000 |
| **Networking** | Conversant in LAN, WAN, Wi-Fi, DNS, WINS, DHCP, TCP/IP, ISCSI, Fiber, Firewalls/IPS/IDS. |
| **Network Protocols** | TCP/IP, UDP, DNS, DHCP, ARP, Telnet, SSH, IPSec, SSL. |

**Work Details**

**Client: CBRE, Dallas - TX March 2017 – Till Date**

**Title: Sr. AWS/Devops Engineer**

**Roles and Responsibilities**

* Designed and configured **VPC– IGW, Public and Private subnet's, Security groups, NACL's, Route Tables, direct connect and VPN.**
* Created and Configured **VPC Peering Connections** and Resolved the issues of overlapping **CIDR’s.**
* Managed **S3 buckets** and **Object policies** using **IAM** and **S3 bucket Policies** and Created **MFA** for Accidental Deletion.
* Enabled **Server side encryption** on **Amazon S3 Buckets**, **Objects** and **files** using **AWS KMS** and managed **Customer Master Keys.**
* Used **groovy scripts** for CI/CD pipeline builds and actively involved in entire **Pipeline setups** and **Jenkins** configuration.
* Managing storage requirements using **Amazon S3** service and Creating **S3 Buckets** and configuring Versioning and Life Cycle Management.
* Taking **periodical snapshots** of **EBS Volumes** for **Backup and Disaster recovery** to meet **RTO** and **RPO**
* Created and implemented **complex Routing Strategies** using **Route53** with **latency** and **weighted** routing policies for **high availability** and **fault tolerance.**
* Configured **Splunk** (**Splunk Enterprise**) to gain real-time Operational Intelligence across **applications** and **services**. Integrated **Splunk** with **AWS** to analyses data from over 15 AWS data sources including (AWS **CloudTrail**, **AWS** Config, Amazon Virtual Private Cloud Flow Logs, AWS Billing and Cost Management) to deliver security, operational and cost management insights via pre-built **dashboards**, **reports** and **alerts**.
* Converted existing **Terraform** modules that had version conflicts to utilize **Cloud formation** **templates** during **deployments**, experienced with **Terraform** to create stacks in AWS, and Enhanced the **Terraform** scripts based on the requirement on regular basis.
* Created and Maintained **Launch Configuration**, **Auto Scaling Groups** with the combination of **SQS** and **CloudWatch** to achieve **High Availability** and **Fault Tolerance**.
* Configured **ELK** (**Elastic Search, Log stash, Kibana**) stack with **Jenkins** for deep search and **data analytics,** **centralized** **logging, and parsing** which are obtained from **Jenkins logs and sys’logs.**
* **Migrating** on premise **Database Servers** to **AWS** Cloud using **AWS DMS**.
* Created **AWS Config stack** in **Cloud Formation** that will monitor everything going in on **AWS** account.
* Created **Cloud Formation** Templates of current **AWS** Environment using **Cloud Former** and **Cloud formation Designer.**
* Experienced in authoring pom.xml files, performing releases with the **Maven release plugin**, and managing artifacts **in Sonartype NEXUS repository**.
* Configured **SonarQube** for **code coverage and sonar metrics** in the pipeline for quality of unit test cases by using **Coverage plugins** and generated build using **Maven**.
* Installed and setup **ELK (Elasticsearch, Logstash and Kibana**) on a different operating system such as Linux and Unix -based Systems. Worked with Integration of **ELK** with **Docker**.
* Involved in **migrating** of Application Servers Static files to **AWS S3**.
* Designed and configured **Cloud Front** to serve the static and dynamic content to the **Edge locations** for End Users.
* Configuring alarms in cloud watch.
* Creating and Managing **Users, Groups** in **IAM** and created **policies** and Assigned **Roles** to **AWS** Resources.
* Monitored **AWS** Environment with the combination of **Cloud trial**, **Cloud watch** and **SNS.**
* Automating Infrastructure using **AWS Cloud formation** templates and updating the **Stacks** with the help of **Cloud Formation.**
* Customized **Alarms**. Managed **Billing** across several **AWS accounts** and reduced costs by effectively utilizing the resources.
* **Devops** experience with **continuous integration** (CI/CD) and automation tools such as **GIT**, **Jenkins**, **Ansible** and **Puppet**.
* Configuring and automate packaging using **Chef** and **Puppet.**
* Created **AMI’s**of EC2 instances for backup using **AWS CLI** and **IAM** security best practices
* Designing and deploying highly scalable infrastructure using **ELB**, **OpsWork** and **Auto scaling** services
* Created and Managed **DNS** entries using **Route53** to route traffic between different regions
* Created **SNS** notifications and assigned **ARN** to **S3** for object loss notifications.
* Configured & managed automation of windows patching using **EC2 systems manager**

**Client:AAA, Walnut Creek - CA Duration: May 2015 – Feb 2017**

**Title: Aws/Devops Engineer**

**Roles and Responsibilities:**

* Created and maintained **Highly Available** and **Fault Tolerant** infrastructure in **Amazon VPC**using **EC2** with **Elastic loadbalancing** and **Auto scaling** groups in **AWS** cloud.
* Monitored **AWS** resources such as Amazon **EC2** instances**, Amazon DyanamoDB** tables, and **Amazon RDS DB** instances, as well as custom metrics generated by applications and services, and any log files generate applications using CloudWatch.
* Monitored Network,File systems and process activity by installing **AWS Inspector** Software Agents on **EC2** instances that are included in Assessments.
* Analyze and processed  **VPC** Flow Logs, **AWS CloudTrail** event logs, and **DNS** logs using **Amazon Guard Duty**
* Created **AWS Route53** to route traffic between different regions.
* Supportcurrent **migration** of data center to **AWS** Cloud.
* Created user and group accounts and allowing access using **IAM** and setting up own **VPC** networks and security groups.
* Configuring the **VPC** inbound and outbound networks using public and private **Subnets** according to the requirements.
* Created **S3 buckets** in the **AWS** environment to store files, sometimes which are required to serve static content

for a web application.

* Configuring **Virtual Private Network** (VPN) between **AWS** Regions As well as from cloud to On premise through **Virtual Private Gateway (VPG)** and **Customer Gateway (CGW).**
* Refactored messaging and storage implementation in loan originator service to use **AWS SQS**and **S3**.
* Extensively working on **Continuous Integration (CI)** and Continuous Deployement (CD) process by automating build on time basis using **Jenkins.**
* Scheduled Jenkins jobs by integrating **GITHUB, Maven and Nexus** for the automated builds using **Shell**scripts..
* Using **Docker** in the process of implementing high level API which provide light weight containers to run the applications, As well as for building and pushing the **images** in various environments.
* Responsible for writing custom chef cookbooks to install packages and running services over the environment having numerous servers.
* Designed and implemented **Chef**, including the internal best practices, cookbooks, automated cookbook CI and CD system and made use of **Jenkins/TeamCity** for **Chef CI**.
* Configured **Puppet** for configuration management for VMWare vSphere on premise Infrastructure and taken control of **Jenkins, GitHub, Artificatory** and all **internal build systems** for development team on an enterprise-level Java-based cloud orchestration/automation tool.
* Responsible for creation **Chef** recipes files to install Tomcat instances and to manage configuration files for multiple applications.
* Rapid-Provisioning and Configuration Management for Linux, Windows using **Chef** and **Cloud Formation** Templates on **Amazon Web Services**.
* Configured and integrated the servers for different environments to automatically provision and configuration.
* Automation of infrastructure using **CloudFormation** and **Terraform.**
* Installed **Chef-Server** Enterprise On-Premise/WorkStation/ Bootstrapped the **Nodes** using **Knife**.
* Deployment of binary code in the form of **JAR**, **WAR** and **EAR** files to **JBoss** and **Apache Tomcat** server from the **Nexus Repository**.

**Environment:** AWS (EC2, EMR, Lambda, S3, ELB, ,,Elastic Filesystem, RDS, DMS, VPC, Route53, Security Groups, CloudWatch, AWS Guard Duty, CloudTrail, IAM Rules, SNS , SQS,VPN,VPG,CGW), GitHub, Jenkins, Apache Tomcat 7.0, Python. Firewalls (Palo Alto,Checkpoint), Splunk.

**BBVA Compass, Birmingham - Al Duration: Jan 2014 – April 2015**

**Title: Aws/ Devops Engineer**

**Roles & Responsibilities:**

* Configured **AWS** Identity Access Management (IAM) Group and users for improved login authentication.
* Launching and configuring of Amazon **EC2** (AWS) Cloud Servers using **AMI'**s (Linux/Ubuntu) and configuring the servers for specified applications.
* Deploying, managing, and operating scalable, **highly available**, and **fault tolerant** systems on **AWS**
* Migrating an existing on-premises application to **AWS**
* Implementing and controlling the flow of data to and from **AWS**.
* Installation, configuration and administration of **Linux** (Ubuntu, Red hat/SUSE, CentOS).
* Install and configuration of **Dockers.**
* Responsible for design and maintenance of the **GIT** Repositories, views, and the access control strategies.
* Worked in setting up the repos to various projects in **GIT.**
* Scripted Linux repository database comparisons using **Python**, **Ruby**, and **Shell**.
* Used **ANT** and **MAVEN** as a build tools on java projects for the development of build artifacts on the source code.
* Created the **ANT** scripts and extension of existing **ANT** scripts for deployment of applications to **HUDSON**.
* Responsible for build and deployment automation using **VM Ware ESX**, **Docker**, **Kubernetes** containers and **Chef**.
* Maintained **CI** (Continuous Integration) and **CD** (Continuous Deployment) methodologies with **Jenkins.**
* Tracking the bugs in project using **Jira**.
* Automated the front-ends platform into **highly scalable,** consistent, repeatable infrastructure using high degree of automation using **Chef,Ansible**, **Vagrant**, **Jenkins**, and **cloud Formation**.
* Research and implement new tools such as **Kubernetes** with **Docker** to assist with **auto-scaling,continuous integration**, rolling updates with no downtime.
* Setting up Change Management process and standardizing the **policies** for various applications.
* Using Confluence for technical documentation, setting up a knowledge base, setting up an intranet and **Confluence** for software teams.

**Environment:**AWS(IAM,EC2,ELB,AMI’s,Cloudwatch,Cloudtrial,NACL) Red hat Linux 7.x, AIX and Windows, AWS, Chef, Shell, Python, WebLogic Server 11g, IBM WebSphere MQ 6.0, F5 BIG-IP Load Balancers, Apache Tomcat 7.x, Configured plug-ins for Apache HTTP server 2.4, LDAP, JDK1.7, XML, SVN, GitHub. Firewalls (Palo Alto, checkpoint), McAfee, Nessus.

**Intergraph, India Duration: March 2011 – Dec 2013**  
**Title: Build and Release Engineer**

**Roles & Responsibilities:**

* Responsible for installing and configuring **CentOS** and **Solaris** platforms.
* Worked on logical volume management (LVM) by adding external disks from **SAN** storage.
* Created user accounts, provided pseudo permissions and maintain the user accounts with

automation Bash scripts.

* Responsible for providing Privileged Password Management access to accounts in Solaris 10,
* Linux and windows servers.
* Worked with virtualization using **VMware** Hypervisor, **VMware** workstation, **KVM** for

Solaris/centos servers.

* Installed and configured subversion on both Linux and windows platforms.
* Managed all the subversion repositories for **branching** and **tagging.**
* Worked closely with Project Managers, Developers and QA Analysts to ensure successful software

build and deployment for test, staging and production environment.

* Administered SVN for version control to include branching and merge management, and    
  **JIRA** to track process defects
* Execution of daily builds and releases using automated **python** scripts.
* Resolved update, merge and password authentication issues in Bamboo and JIRA.
* Used **SCM** tool like Team Foundation Server(TFS) Build Server.
* Implemented build automation using tools like **Jenkins.**
* Troubleshooting issues raised during the build and deployment process.
* Worked on deleting the old deployed code and deploy the newly built code using Web Sphere.

**Environment:** - SVN, Ant, Visual Studio 2013, Jenkins, Maven, Version One, Linux, shell scripting, Oracle, JIRA, Nexus, JBOSS, VMware, Virtualization. McAfee, Juniper, Symantec DLP.

**Wipro Technologies, Hyderabad - IN Duration: June 2010– Feb 2011**

**Title: Jr. Linux System Administrator**

**Roles & Responsibilities:**

* Install and configure **Ubuntu**, **Centos** on remote servers and Desktop servers.
* Installed and configured **Apache/Tomcat** web server.
* Working with developers to load software onto **Linux** Enterprise servers and debugging Scripts.
* Implementing Raid Levels (SDS and VERITAS)
* OS upgrades and installation of third party software, packages and patches as per requirement.
* Maintaining the **Linux** Firewall for network and implement to the network security.
* Resolving TCP/IP network access problems for the clients. Develop, Maintain, update various scripts for services (start, stop, restart, recycle) UNIX based shell.
* Experience installing and configuring SSH (Secure Shell) encryption to access securely on **Ubuntu** and **Red hat Linux.**
* Responsible for configuring and connection to SSH through **SSH** clients like **Putty** and **Cyber duck**.
* Regularly manage backup process for server and client data.
* Installing open source application, search, analyze and develop new application for users.
* Environment: RED HAT Linux server, Apache, LDAP, Solaris 9/10, Active Directory, Shell Scripting, Ubuntu.

**Environment:** RHEL 5, 6/ CentOS, Ubuntu, Debian, Shell/Bash Scripts, Ansible.

**Education**

**Bachelors in Information Technology** ,Acharya Nagarjuna University, India