**SWETHA K**

**Devops Engineer**

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**PROFESSIONAL SUMMARY:**

Having 4.8 years of experience in IT Industry as **a DevOps Engineer and Build & Release Engineer**. Having exposure to **Software Configuration Management, Build Management, Release Engineering, Trouble shooting application issues and Environments related issues** and many other tools and technologies.

* Expert-level knowledge on Amazon services like **EC2, S3, EBS, RDS, ELB, SNS, VPC, IAM, Route 53,Cloud Watch and Cloud Front, Auto Scaling .**
* Creating/Managing AMI/Snapshots/Volumes, Upgrade/downgrade AWS resources.
* Automate building of our own pre-defined **AMIs for Testing, Production and Development** environments.
* Setup, attaching and detaching **EBS** volumes. Setup, managed backup and recovery using Snapshot and Extensive Knowledge on creating **AMI** Workspaces.
* Designing and Deploying Highly scalable infrastructure using **ELB** and **Auto Scaling services**. Creating Public and private faced **Subnets, Routing tables, Internet Gateway by using VPC**.
* Experience working on **Version control system tools like GIT and also having strong knowledge on source control concepts like Branches, Masters, Merges and Tags**.
* Designed and implemented continuous deployment pipeline using **Jenkins, Maven, Git and Ansible**.
* Backup and Restoring the Jenkins Jobs to **S3 Bucket and vice-versa**.
* Managing **Nagios and Cloud watch for monitor critical system** health, performance, security, disk usage etc.
* Excellent experience in **DevOps, Build and Release, Application/Production Support**.
* Knowledge on **Lambda** and **fargate** function in AWS.
* Worked on **Docker** tool.
* Good Knowledge on **OSI Model and Networking Devices, security configuration and concepts.**
* **OWASP** Top 10 **Vulnerabilities** in web application security.
* Security **network auditing tools using Nexpose, Nessus and Wireshark.**
* **PC auditing tools using Belarc, PC audit, RK hunter, MBSA.**
* **Port** scanning tools using **NMAP**.
* Utilized Cloud Watch to monitor resources such as **EC2, CPU memory, Amazon RDS DB services, EBS volumes; to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.**
* Working experience in continuous integration using **Git, GitHub, maven, Jenkins(CI/CD), Ansible**.
* Created and configured multiple jobs on **Jenkins** **for regular source code builds and deployments**.
* Deploy Jenkins to completely provision and manage **AWS EC2 instances, volumes, DNS, and S3**.

**TECHNICAL SKILLS:**

* **AWS Services** **:** EC2, S3 and S3 Glacier, EBS, VPC, RDS, ELB, Route 53, AMI, IAM, Cloud Watch, Cloud Front, Lambda, Fargate, SNS, Auto scaling, AWS certificate manager, Trusted advisor.
* **Build & Version Control :** GIT, GITHUB, Maven
* **CI/CD Tools** **:** Jenkins, Ansible
* **Monitoring** **:** Nagios , AWS Cloud Watch, Splunk, Wireshark
* **Server Technologies** **:** Apache Tomcat
* **Databases** **:** MySQL
* **Basic knowledge Programing :** Python, Groovy
* **Other Tools** **:** WinScp , Putty , Filezilla, GitBash
* **Ticketing Tools** **:** Jira, FNF servicenow, Microsoft TFS
* **Devops Tools :** Git, Ansible, maven, Docker, Ansible Tower
* **Operating System** **:** Windows, LINUX (RHEL, Centos, Ubuntu, Boss)

**ACADEMIC DETAILS**



* **Bachelors in Electronics and Communication engineering, JNTU University, India.**

**ORGANIZATIONAL EXPERIENCE:**

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| **Project** **Name** | **Client** | **Duration** | **Company** | **Role** |
| Insigniac Nuxeo  Internal | Amadeus | May16-Nov19 | Purview Services | DevOps Engineer |

**Environments:** AWS, GIT, Jenkins, Ansible, Maven, Nagios, Tomcat**,** AWS Cloud Watch, Jira,Shell Script.

**Key Responsibility’s:**

* Creating **CI/CD pipelines** by integrating **Git, GitHub, Maven, Jenkins, Ansible, and AWS (provisioning).**
* Experience in **AWS** provisioning by creating EC2 Instances and configuring all necessary services like **Security**, **EBS, and S3.**
* Automating build process for creating **JAR/WAR artifacts using Maven**.
* Configured packages, services using **Ansible modules like apt, service, templates, handlers etc. configuring Apache tomcat server using Ansible.**
* Developed and Implemented Software Release Management strategies for various applications according to the **Agile Process**.
* Worked with cloning code from **GIT repositories and had experienced in checkout to the branches and downloading code into Maven.**
* Managing **Nagios and Cloud watch for Monitor** critical system health, Performance, Security, disk and Memory usage.
* Automated deployment using configuration management tools like **Ansible to provision amazon AWS Instances to enable continuous Deployments.**
* Involved in **job scheduling for daily and nightly build activity using Jenkins**.
* Deploy and monitor scalable infrastructure on **Amazon web services (AWS) & configuration management using Ansible.**
* Administrating **GIT and Jenkins, Providing access permission to the team members**.
* Deployment of the Business processes by **creating JAR, WAR files to Tomcat application servers.**
* **Setup/Managing Databases on Amazon RDS** and Monitoring servers thorough **Amazon Cloud Watch, SNS**.
* Managing **Amazon Web Services (AWS)** infrastructure with automation and configuration management tools such as **Ansible, Packer and Jenkins.**
* Creating the **AMI’s** for the different types of Environments [like Development, Production and Testing].
* Creating **S3 buckets and managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS GUI and CLI.**
* Create and managing **VPC, Subnet, Security groups and launching instances** in it.
* Generating the Artifacts by using the Build Tools like **Maven.** Creating**, Building and Scheduling the Jobs through Jenkins.**
* Worked closely with the development and operations organizations to implement the necessary tools and process to support the automation of builds, deployments, testing and infrastructure using **Ansible**.
* Used **Jenkins for Continuous Integration and deployment into Tomcat Application Server**.

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| **Project** **Name** | **Client** | **Duration** | **Company** | **Role** |
| Global-it-ENTMon | Bosch | April 15- May 16 | FNF India | AWS Engineer |

**Environment**: **AWS, GIT, Jenkins, Ansible, Docker ,Nginx , Apache.**

**Description**: EntMon (Enterprise Monitor) is a single enterprise-wide real-time data-monitoring solution for all IT applications. EntMon currently supports monitoring APIs developed using Addison. Other layers of IT applications will be supported in future. Note that EntMon is not a replacement for BSM or SiteScope monitoring. EntMon provides mechanisms to capture monitoring data asynchronously, while the business places real-time transactions.

**Responsibilities**:

* Involved in designing and deploying a multitude applications utilizing almost all of the AWS stack (Including **EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling.**
* Managing **AMI/Snapshots/Volumes, Upgrade/downgrade AWS resources (CPU, Memory, EBS).**
* Maintained and configured **Web server: Apache and Application servers (Tomcat)**.
* Creating and managing **Development and QA and Production Environment in AWS Platform**.
* Managed **Amazon Web Services for the project including configuration and deployment of all required infrastructure, administrative tasks, and budgeting.**
* **Automating the regular day-to-day** tasks performed by the client or other teams, with the help of scripts, thus enhancing client value creation.
* **Debugging build failures, coordinating with developers and testers to resolve related issues**.
* Working on developing and enhancing build scripts and tools to improve the efficiency of the development and its build process.
* Configuring and supporting **AWS environments, provisions and decommissions resources, monitors utilization** and makes adjustments in accordance with requirement.
* Completely Handling Build and Deploy by using **Git Hub, Jenkins, and AWS code Deploy**.
* Architecting Infrastructure solutions using **both Linux and Windows on Cloud with specific recommendations on server, load balancing, Multi-region, storage architectures.**
* Setting up and maintaining automated build scripts in **Jenkins and Configuration of Cloud Watch Logs**.
* Creating the **Encrypted Volumes and AMI’s for sharing AMI from One region to another**.

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| **Project** **Name** | **Client** | **Duration** | **Company** | **Role** |
| Linux/Unix Administrator | CDAC | Nov 14 – April 15 | CDAC | Linux Admin |

**Environment**: RED HAT Linux server, Apache, LDAP, Solaris 9/10, Active Directory, Shell Scripting, Ubuntu.

**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 also debugging Scripts**.
* **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 in order to access securely on Ubuntu and Red hat Linux.**
* Responsible for configuring and connection to **SSH through SSH clients like Putty and Cyber duck**.

**References:**

Available on the request