**Sushma P**

**PROFESSIONAL SUMMARY:**

* 5+ years of experience in IT industry containing strong foundation in **Linux and Network Administration**, **CI/CD (Continuous Integration/Continuous Delivery)**, Software Configuration Management (SCM) and Cloud Management all inside that suites the necessities of a domain under the **DevOps** culture. Experience in Creating secured cloud infra using **Virtual Private Cloud (VPC)** for Staging and Development environment on **AWS**.
* Experience in designing, developing, deploying, and operating available cost effective and fault tolerant systems using multiple **EC2** instances, **Elastic load balancing** and **Auto Scaling**.
* Experience in Server infrastructure development on AWS Cloud, extensive usage of **Virtual Private Cloud.**
* Expertise with container-based deployments using **Docker**, working with Docker images and Docker hub.
* Knowledge in cluster services using **Docker** and **Kubernetes** to manage local deployments by building a self-hosted Kubernetes cluster using **Terraform** and **Ansible**.
* Proficient with in depth knowledge of using various AWS services which include **EC2 Container service, IAM, VPC, EC2, EKS, ELB, Auto Scaling, S3, Glacier, RDS, DynamoDB, Cloud Front, CloudWatch, Route53, SNS, SQS.**
* Hands on experience with AWS solutions using **Cloud Formation** **Templates** and launch configurations to automate repeatable provisioning of AWS resources for applications.
* Used **Cloud Watch** to monitor server services like logs, CPU, RAM, and disk storage. Achieved Auto scaling by configuring launch configuration for Auto scaling groups by creating alarms on server services like EC2, CPU, RAM, and disk storage.
* Worked on delegating access across various AWS Accounts using **IAM** roles.
* Worked with **IAM** service creating new IAM users & groups, defining roles and policies and Identity providers.
* Configured **AWS IAM** and Security Group in Public and Private Subnets in **VPC.**
* Worked on **ECS** and **EKS** deployment to an application on a **Tomcat** server.
* Experience in providing support for technical requirements in automating the deployments on cloud environments using **Jenkins and AWS.**
* Having good working experience in **AWS** with **EKS** by using **CloudFormation** .
* Install and configure servers in a physical and virtual environment.
* Automated various day-to-day administration task by developing **Bash and Python Scripts.**
* Experience in using configuration management tools like **Ansible.**
* Experience in Linux Administration Build and Release Management, System Engineer, and extensive experience with **Devops tools, AWS, CI/ CD, and SCM.**
* Experience in building and deploying **Java** applications and troubleshooting the build and deploy failures.
* Proficient in using all Amazon web services.
* Integrated **JIRA** with SVN and created automated release Notes using **Perl** Scripts; used JIRA to track issues.
* **Coordinate with Development, Database Administration**, QA, & IT Operations to ensure no resource conflicts.
* Deployed web applications into different application servers using Jenkins.
* Developed build & deployment scripts using **ANT & MAVEN** tools in Jenkins to move from one environment to other.
* Used **Terraform(Infrastructure as a Code)** to spin up Environments.
* Experience in Linux/Unix System Administration, System and Server Builds, installations, upgrades, tuning, migration, and trouble shooting.
* Experience in and demonstrated understanding of source control management concepts such as **Branching, Merging, Labelling/Tagging,** and **Integration**.
* Managed on-shore/off-shore relationships with the goal of becoming the point person for the business and IT teams.
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.

**TECHNICAL SKILLS** :

* **Programming/Scripting Languages:** Python, Shell, Bash, Perl, Java
* **Bash Frameworks**: Flask and Django (for Python), Scrum (for Agile)
* **Build Tools:** Ant, Maven
* **Operating Systems:** Linux (Red Hat Enterprise, CentOS, Ubuntu)
* **Configuration Management:** Chef, Ansible
* **Infrastructure as Code:** Terraform
* **Continuous Integration:** Jenkins
* **Version Control Tools:** GIT
* **Tracking/Testing Tools:** JIRA
* **Monitoring Tools**: CloudWatch
* **Databases:** SQL, Microsoft SQL Server
* **Virtualization Tools**: VMware, Oracle VirtualBox, Hyper-V

**Client: Samsung | Texas, USA**

**Duration: June 2018 – Till date**

**Role: AWS/Devops Engineer**

**Responsibilities:**

* Implemented secure cloud architecture based on **AWS** to make sure applications have efficient Reliability, Scalability and High availability.
* Build and configure a virtual data center in the Amazon Web Services cloud to support Enterprise Data Warehouse hosting including **Virtual Private Cloud (VPC**), **Public** and **Private** **Subnets**, **Security** **Groups**, **Route** **Tables**, **Elastic** **Load** **Balancer,** andtested AWS.
* Implemented Amazon **EC2** by setting up instances, **Virtual Private Cloud (VPCs**), and security groups and by automating the process of launching and stopping/terminating **EC2** instances on **AWS.**
* Worked on **ECS** and **EKS** deployment to an application on a **Tomcat** server hosted in containers using **Terraform** to create Infrastructure as Code.
* Implemented a 'server less' architecture using **API Gateway, Lambda** and **DynamoDB** anddeployed **AWS Lambda** code from **Amazon S3** buckets. Created a **Lambda** Deployment function and configured it to receive events from your S3 bucket.
* Efficiently transfered data from Datacenters to cloud using AWS Import/Export **AWS Snowball** service and Created database objects, performance Tuning and Query Optimization in **AWS** **Redshift.**
* Involved in Architecting, building and maintain Highly Available secure multi-zone AWS cloud infrastructure utilizing **Ansible** with AWS **Cloud Formation** and Jenkins for Continuous Integration.
* Worked on AWS **Code Deploy** and Auto Scaling Groups to implement **Blue-Green Deployments** for the various releases moving forward. Created snapshots and **Amazon Machine Images (AMI)** of the instances for backup.
* Used **AWS Console** and **AWS CLI** for deploying and operating AWS services specifically **VPC, EC2, S3, EBS, IAM, ELB, Cloud Formation** and **Cloud Watch.**
* Proficient in writing **AWS Cloud Formation templates** to create custom **VPC’S,** subnets, **NAT, EC2** instances, **ELB’s** and Security groups using **JSON** templates.
* Created **Identity Access Management (IAM)** policies for delegated administration within AWS. Used **IAM** to create new accounts, roles and groups and polices and developed critical modules like generating amazon resource numbers and Integration points with **DynamoDB**, **RDS**.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using **Ansible** **playbooks** and has Integrated **Ansible** with **Jenkins.**
* Used **Ansible** for deploying the necessary changes on remote hosts and monitored the process using Ansible Tower.
* Used Ansible Tower for running playbooks stream in real-time and amazed to see the status of every running job without any further reloads.
* Installed, configured, and managed the **ELK** (Elastic Search, Log Facilitated Scrum ceremonies like Sprint planning, retrospectives, Daily stand-ups, Stash and Kibana) for Log management within **EC2/ Elastic Load balancer (ELB)** for Elastic search.
* End to End solution for hosting the web application on AWS cloud with integration to S3 buckets
* Integration of web portal and users associated with S3 bucket.
* Used Amazon S3 to backup database instances periodically to save snapshots of data.
* Used **Terraform(Infrastructure as a Code)** to spin up Environments.
* Made use of **Terraform Modules** to spin multiple Environments with same code.
* Extensively worked on **Jenkins** for Continuous Integration and for End-to-End automation for all build and Deployments.
* Automated Deployment of Java based applications into **Tomcat, WebLogic** servers using **Chef** and **Jenkins**.
* Deployed multiple **JAVA/J2EE** applications through **Tomcat** application servers.
* Implemented Branching, Merging, Tagging, and maintaining the version across the environments using SCM tools like **Git** on **Linux** platforms.
* Worked on Deployment and configuration of **ELK** stack for log analytics, full text search, application monitoring.
* Pro-actively look for ways to enhance the functionality, reliability, operation of the **pipeline.**
* Automate the release **pipeline** to achieve zero touch deployments using **Jenkins**.
* Worked on Java features such as **Lambda** Expressions for making anonymous inline function calls by using Functional Interfaces which makes code readable and concise.
* Involved in QA, Dev, Test and Prod environments of different applications on AWS by provisioning clusters on EC2 instances using **Docker, Bash, Chef**.
* Used **Ansible** to Setup/teardown of **ELK** stack (Elastic search, Log stash, Kibana) and troubleshoot the build issues with **ELK** and work towards its solutions.
* Built python automation scripts to apply OS patching for EC2 instances for security upgrades.
* Managing AWS Infra and automation with CLI, API. Managing Data Centre Inbound and outbound services. Working on automation tools like **Ansible**.
* Worked with the development team to generate deployment profiles (jar, war, ear) using **Maven Scripts and Jenkins.**
* Implemented a Continuous Delivery framework using **Jenkins**, **Ansible**, Maven in **Linux** **environment**.
* Written **Maven** build tools for application layer modules.
* Involved in editing the existing MAVEN files in case of errors or changes in the project requirements.
* Excellent communicative, interpersonal, intuitive, and analytic and leadership skills with ability to work efficiently in both the independent and teamwork environments.

**Environment**: EC2, AWS Infrastructure, Auto Scaling, Route53, S3, IAM, VPC, ELK, EKS, ELB, JAVA, CloudFormation, Maven, Tomcat, Jenkins, Chef, Ansible, Terraform, Linux, Git.

**Client: Verizon | Texas, USA**

**Duration: April 2016 – May 2018**

**Role: Jr. Build and Release Engineer**

**Responsibilities:**

* Performed all necessary day-to-day Subversion/GIT support for different projects.
* Analyzed and resolved compilation and deployment errors related to code development, branching, merging, and building of source code.
* Installation, administration and monitoring of WINDOWS and LINUX (CentOS, Ubuntu, and Red Hat) server.
* Integrated **JIRA** with SVN and created automated release Notes using Perl Scripts; used JIRA to track issues
* **Coordinate with Development, Database Administration**, QA, & IT Operations to ensure no resource conflicts.
* Deployed web applications into different application servers using Jenkins.
* Developed build & deployment scripts using **ANT & MAVEN** tools in Jenkins to move from one environment to other
* Responsible for moving data between **AWS compute** and **storage service**s using a **data pipeline**.
* Worked on **AWS Data Pipeline** to configure data loads from S3.
* Installation, Configuration and Administration of Jenkins on **Linux** machines.
* Developed processes, tools, automation for **Jenkins** based software for **build** system and delivering **SW Builds**.
* Managed build results in **Jenkins** and deployed using workflows.
* Delivered specific versions of various components of an application into target environments.
* Maintain and track inventory using **Jenkins** and set alerts when the servers are full and need attention.
* Created and maintained **Python** scripts for building applications.
* Developed entire front-end and back-end modules using **Python** on **Django** Web Framework.
* Configured and Maintained the **Jenkins** in automation jobs.
* Checking the code to **GitHub** repository and updating the status.
* Maintain and track inventory using Jenkins and set alerts when the servers are full and need attention.
* Managing Confidential infrastructure with automation and configuration management tools such as **Ansible** or custom-built.
* Installed/Configured/Managed **Ansible playbooks**. Wrote custom Modules and Manifests.
* Integrated **GIT** into **Jenkins** to automate the code check-out process.
* Develop and enhance the automated configuration management system.
* Maintain and enhance current build procedures for all software development projects.
* Knowledge of concepts in **code lines, branching, merging, integration, versionin**g etc.
* Worked as a team lead to some extent under necessary situations.
* Responsible for writing the Release Notes, documenting all the useful info about the release, software versions, changes implemented in current release, Defects fixed, and Labels applied.

**Environment**: Windows, Linux, GitHub, Jenkins, Ansible, JIRA, Python, Django, Red Hat Linux OS, CentOS, Ubuntu, AWS Data Pipeline, AWS Services.

**Client: Wipro Ltd. | Hyderabad, India**

**Duration: July 2014 – March 2016**

**Role: Linux Administrator**

**Responsibilities:**

* Handled Workload Management for load balancing and failover, improving performance, reliability, and scalability.
* Deployed code updates into test environments and production environments.
* Maintained **Git** repositories for developers and promoted topic branch workflow.
* Troubleshooted Network, memory, CPU, swap and File system issues, TCP/IP, NFS, DNS and SMTP in Linux Servers.
* Configured TCP/IP network on LINUX environments.
* Maintained file systems, checking, and repairing file systems and monitoring file system usage.
* Troubleshooting boot related problems. Administrating software package like adding, deleting of software packages in Linux.
* Administration of repetitive Jobs using bash Scripts to accomplish the task on multiple servers.
* Monitored and managed Weekly server reboots on **Linux** Servers.
* Installed, Configured and Managed VMware vSphere.
* Created and modified users and groups with SUDO permission.
* Policy management and applying network file systems for sharing resources across the network.
* Implemented Network Communications on Servers.
* Working with developers to load software onto Linux Enterprise servers and debugging Scripts.

**EDUCATION**

Master of Science in Computer Science,

**Texas A&M University-Commerce, Texas**

Bachelor of Science in Electronics and Communication Engineering**,**

**Jawaharlal Nehru Technology University, Hyderabad**