**SAIJEEVAN G**

**Site Reliability Engineer**

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**PROFESSIONAL SUMMARY**

* Over 9 years of IT Industry Experience in Devops, Linux Administration, Configuration Management, Continuous Integration, Continuous Deployment and Cloud Solution Architecture Implementation.
* Experience in core AWS services (S3, EC2, ELB, EBS, Route53, ECS, VPC, Auto scaling etc.) and deployment services (Elastic Beanstalk, Ops Works, and Cloud Formation) and security practices (IAM, Cloud watch and Cloud trail).
* Experience as a Cloud DevOps Engineer working on **AWS DevOps** and **Azure DevOps Services**.
* Experience in Deploying with Tomcat, Web Server, Node Js, PHP.
* Experience setting up dash boards for tools monitoring using AppDynamics.
* Experience in deploying Azure Function App and Logic Apps.
* Worked in container-based technologies like **Dockers**, **Kubernetes,** and Open shift**.**
* Experience creating **Azure DevOps Pipelines** in ADO.
* Experience working with Microsoft Azure (Azure Storage Service, SQL Databases, Logic Apps, App Services, Application Insights, Azure Key vaults, Function App, Azure DevOps, DevOps Projects, Service Fabric Clusters).
* Professional experience designing and deploying scalable, highly available, and fault tolerant infrastructure and application architect on AWS Cloud.
* Ability to work closely with business to understand and incorporate non-functional requirements in the application architecture.
* Experience working with Dockers.
* Experience in deploying containers AWS ECS, Azure Container Instances.
* Experience with Configuration Management tools such as Ansible.
* Architected and designed Rapid deployment method using Ansible to auto deploy servers as needed.
* Built a new CI pipeline. Testing and deployment automation with Docker, Jenkins, and Ansible.
* Experience in Implementing Organization DevOps strategy in various environment of Linux and windows servers along with adopting cloud strategies based on Amazon Web Services.
* Experience maintaining CI environments with build automation tools like Jenkins, Bamboo and TFS.
* Extensively used Jenkins to streamline CI/CD process, automated several Master-Slave configurations using temporary slaves.
* Experience in developing and implementing infrastructure as code, automated provisioning and configuring using Terraform and Ansible.
* Experience in DevOps Engineering in automating, building and deploying of code within different environments (Dev, SIT, UAT, Staging & Prod).
* Strong Experience in Amazon EC2 setting up instances, VPCs, and security groups.
* Experience in managing AWS VPC (Virtual Private Cloud) environment with around 200+ Linux and Ubuntu instances.
* Created functions and assigned roles in AWS Lambda to run python scripts, and AWS Lambda to perform event driven processing.
* Setting up databases in AWS using RDS, storage using S3 buckets and configuring instance backups to S3 bucket.
* Knowledge of databases like MySQL, Oracle 10g/11g, MSSQL, MongoDB, Dynamo DB.

**Skills Profile**

* **Cloud Services:**

**Amazon Web Services** - EC2, S3, Route53, VPC, SNS, SQS, SWF, EMR, Redshift, DynamoDB, RDS, CloudFront, ELB, EBS, Elastic Cache, ECS, Lambda, Cloud Watch, CloudFormation, Glacier/Snowball etc.

**Microsoft Azure** - Azure Storage Service, SQL Databases, Logic Apps, App Services, Application Insights, Azure Key vaults, Function App, Azure DevOps, DevOps Projects, Service Fabric Clusters.

* **Automation Frameworks**: Terraform and Ansible.
* **Containers, Clusters:** Dockers, Kubernetes, Open shift.
* **Programming Languages**: C, BASH, C++, Python, shell scripting, YAML, Core Java.
* **Database Servers**: Dynamo DB, Oracle, MySQL, MS SQL.
* **Operation Systems**: Linux, Windows.
* **Web Servers**: Apache Tomcat

**Professional Experience:**

Client: **Kroger, Cincinnati, OH**

Role: **Site Reliability Engineer (SRE)** Duration: **May 2022 – Present**

Kroger Health & Wellness is one of America’s leading retail healthcare organizations with 2,200 pharmacies and 11 specialty pharmacies, and 225 clinics nationwide.

**Responsibilities:**

* Experience in migrating the Legacy application from On-Premises Pivotal Cloud Foundry (PCF) Data center to Azure Cloud. Provisioned Azure resources like SQL Database, Cosmos DB, Function App, Azure Spring Cloud, Azure Function Apps, Azure Spring Cloud App, Azure Service Plans, Azure Storage accounts, Azure Key vault, Virtual Machine, App Insights, Log Analytics, Elastic Job Agents, Automation Account for SQL database maintenance using Terraform.
* Designed and implemented Terraform infrastructure as code (IaC) solutions to deploy and manage Azure Synapse workspaces, including configuring storage accounts, virtual networks, and Azure Active Directory (AAD) integration.
* Leveraged Terraform modules to enable consistent deployment of Azure Synapse resources across multiple environments, ensuring configuration and compliance consistency.
* Developed custom Terraform modules to automate deployment of Azure Synapse Analytics and Azure Synapse Studio workspaces, enabling fast, repeatable deployments for data engineering and analytics teams.
* Created Terraform scripts to integrate Azure Synapse with other cloud services, including Azure Data Factory, Azure Stream Analytics, and Azure Databricks, to build end-to-end data processing pipelines.
* Utilized Terraform to enable automated scaling and provisioning of Azure Synapse resources, including scaling up and down compute resources based on workload demand.
* Developed Terraform scripts to configure and deploy Azure Synapse security features, including network security groups (NSGs), virtual network service endpoints, and Azure Private Link integration.
* Experienced in writing Terraform code to deploy and manage cloud infrastructure resources in Azure
* Proficiency in using Terraform providers and modules to interact with Azure APIs
* Expertise in designing and implementing scalable and reliable infrastructure solutions using Terraform
* Understanding of cloud security best practices and ability to implement security controls using Terraform
* Knowledge of Git and experience with version control systems for managing Terraform code
* Ability to troubleshoot Terraform code and infrastructure issues
* Developed applications on Kubernetes platform using Python which involved creating containers that can run on a Kubernetes cluster. Used Python Flask application that serves a web page.
* Worked with cross-functional teams to define Terraform-based IaC standards and best practices for Azure Synapse, contributing to overall DevOps and infrastructure excellence across the organization.

**Environment:** Azure Resource Manager (ARM), Azure function Apps, Azure App Services, Service Fabric Clusters, Azure Container Instances, Azure VMs, Azure SQL Servers, Azure Key Vaults, Application Insights, Azure Logic Apps, Azure Storage services, Network Security Groups, Azure DevOps Service, Terraform.

Client: **Convergint, Chicago, IL**

Role: **Site Reliability Engineer (SRE)** Duration: **July** **2019 – Apr 2022**

Convergint is into Security & Investigations service provider. Convergint works with global network of partners and manufacturers to design, install, and service electronic security, cybersecurity, fire and life safety, building automation, and audio-visual systems for enterprise customers.

**Responsibilities:**

* Experienced in writing Terraform code to deploy and manage cloud infrastructure resources in Azure
* Proficiency in using Terraform providers and modules to interact with Azure APIs
* Expertise in designing and implementing scalable and reliable infrastructure solutions using Terraform
* Understanding of cloud security best practices and ability to implement security controls using Terraform
* Knowledge of Git and experience with version control systems for managing Terraform code
* Ability to troubleshoot Terraform code and infrastructure issues
* Proficiency in using Terraform CLI for managing Terraform state, creating and updating Terraform configurations, and executing Terraform plans and applies
* Experience in using Terraform workspaces to manage multiple environments, such as development, testing, and production
* Understanding of Azure Resource Manager (ARM) templates and ability to translate ARM templates into Terraform code
* Ability to write custom Terraform providers or modules to extend Terraform functionality
* Experience with Terraform remote backends, such as Azure Blob Storage or Azure File Share, for storing Terraform state
* Familiarity with Azure Kubernetes Service (AKS) and ability to provision AKS clusters using Terraform
* Experience in using Terraform for deploying Azure Virtual Machines (VMs), Virtual Networks (VNets), Storage Accounts, Load Balancers, and other Azure resources
* Knowledge of Terraform state locking and ability to implement state locking to prevent concurrent state modification and data corruption
* Implementing of Terraform modules and ability to use existing modules or create custom modules to encapsulate infrastructure logic and share it across multiple projects or teams
* Ability to troubleshoot Terraform errors and issues using Terraform CLI commands, logs, and debugging tools
* Familiarity with Azure monitoring and logging tools, such as Azure Monitor and Log Analytics, and ability to integrate Terraform with these tools for monitoring and troubleshooting infrastructure changes

**Environment:** Azure Resource Manager (ARM), Azure function Apps, Azure App Services, Service Fabric Clusters, Azure Container Instances, Azure VMs, Azure SQL Servers, Azure Key Vaults, Application Insights, Azure Logic Apps, Azure Storage services, Network Security Groups, Azure DevOps Service, Terraform.

Client: **Vanguard, Raleigh, NC**

Role: **Sr.** **DevOps Engineer** Duration**: Oct 2017 – Jan 2019**

Vanguard is the largest provider of mutual funds and the second-largest provider of exchange-traded funds (ETFs) in the world. Vanguard offers brokerage services, educational account services, financial planning, asset management, and trust services.

**Responsibilities:**

* Implemented CI CD process for daily deployment and for creating end to end build and deployment process using Jenkins.
* Support application deployments, building new systems and upgrading and patching existing ones through DevOps methodologies.
* Written Ansible modules to Create, terminate, start and stop AWS EC2 instances.
* Written Ansible playbooks to install Grafana and tested using Kitchen CI before pushing into different environments.
* Written Ansible playbooks for deployment of WAR, JAR, and EAR files across all the environments & for restarting applications.
* Successfully configured Ansible control server (Linux) to manage Windows servers and installed application using Ansible.
* Experience working with AWS container service (ECS) and Azure container services.
* Wrote Ansible playbook to installed Splunk forwarders.
* Wrote Terraform Scripts to create infrastructure for App Dynamics.
* Build servers in cloud based and physical infrastructure.
* Develop CI/CD system with Jenkins on Google's Kubernetes container environment, utilizing Kubernetes and Docker for the runtime environment for the CI/CD system to build and test and deploy.
* Managing the Open shift cluster that includes scaling up and down the AWS app nodes.
* Have knowledge on partition of Kafka messages and setting up the replication factors in Kafka Cluster.
* the runtime environment for the CI/CD systems to build and test and deploy
* Deployed and maintained Chef role-based application servers, including Apache, Resin and Tomcat.
* Developed and supported key pieces of the company's AWS cloud infrastructure. Built and managed a large deployment of Ubuntu Linux instances systems with Op’s code Chef.
* Designed highly available, cost effective and fault tolerant systems using multiple EC2 instances, Auto Scaling, Elastic Load Balance and AMIs.
* Used IAM to create new accounts, roles and groups and polices and developed critical modules like generating amazon resource numbers and integration points with S3, Dynamo DB, RDS, Lambda and SQS Queue.
* Install, configure, and maintain ELK stack systems.

**Environment:** AWS (IAM, EC2, S3, EBS, Glacier, ELB, Cloud Formation, AWS Lambda, Cloud Watch, Cloud Trail, SNS, SQS, Route53, RDS), Git, Chef, Splunk, Bash, Shell, Dynamo DB, RHEL 4/5/6, CentOS, Apache Tomcat.

Client: **Geico, Chevy Chase, MD**

Role: **Sr. Cloud Engineer** Duration: **Mar 2014 to Sep 2017**

GEICO (Government Employees Insurance Company) is a well-known American auto insurance company that provides coverage for cars, motorcycles, boats, and recreational vehicles. In addition to auto insurance, GEICO also offers homeowners, renters, and other types of insurance.

**Responsibilities:**

* Professional experience designing and deploying scalable, highly available, and fault tolerant infrastructure and application architect on AWS Cloud.
* Ability to work closely with business to understand and incorporate non-functional requirements in the application architecture.
* Was a part of DR exercise and actively involved in creating replica in other AWS AZ’s.
* Created monitors, alarms and notifications for EC2 hosts using Cloud Watch.
* Implementing a Continuous Delivery framework using Jenkins in Windows & Linux environment.
* Configured and maintained Jenkins to implement the CI process.
* Experienced in implementing Chef and Docker (ECS).
* Worked with Ansible (automation tool) to automate the process of deploying/testing the new builds in each environment, setting up a new node and configuring machines/servers.
* Experience maintaining CI environments with build automation tools like Jenkins, Bamboo.
* Created and migrated CICD pipelines in and out of Bamboo.
* Set-up and maintain fully automated CI/CD pipeline for multiple Java / .NET / MS Stack environments using Git, Jenkins, Bamboo, Puppet / Chef.
* Developed build and deployment scripts using ANT/Maven as build tools and Jenkins as automation tool to move from one environment to other environments.
* Participated in problem resolving, change, release, and event management for ELK stack.
* Support the deployment of numerous micro services into production using a stack of Kubernetes, Istio, and Grafana on AWS.
* Experience in chef, creating cookbooks from scratch and coding in chef.
* Configured, monitored, distributed multi-platform servers using Chef.
* Defined Chef Server and workstation to manage and configure nodes.
* Developed Chef Cookbooks and Recipes to manage systems configuration.
* Work on AWS Ops Works in integration with Chef Configuration management tool to maintain infrastructure.
* Configured Elastic Load Balancers with EC2 Auto scaling groups.
* Responsible for creating branches and resolving the conflicts while merging in Git
* Implemented Branching strategies using Git
* Performed configurations from Jenkins to nexus
* Performed configurations from Apache tomcat and web logic to Jenkins.

**Environment:** AWS (IAM, EC2, S3, EBS, ECS, ELB, Lambda, Cloud Formation, Cloud Watch, Cloud Trail, SNS, SQS, Route53, RDS), Spring Boot 1.2.x, Git, Chef, Splunk, Bash, Shell, Dynamo DB, RHEL 4/5/6, CentOS, Apache Tomcat.

**Education:**

Bachelors – Madras University, India