**Jayanth Atluri**

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**Professional Summary:**

* **5 years** of comprehensive **AWS Cloud Computing** experience with a focus on infrastructure deployment and DevOps strategies.
* Proficient in AWS services: **EC2, IAM, S3, RDS, CloudFormation, and CloudWatch**.
* Successful migration of applications from internal data centers to AWS cloud environment.
* Expertise in **AWS IAM** for user access management and permissions.
* Skilled in configuring and implementing AWS components like **EBS, DynamoDB, and Elastic IPs**.
* Managed Amazon RDS instances, handling backups, patches, and software installations.
* Utilized **Git** and **Jenkins** for efficient Build Automation in a DevOps context.
* Designed AWS Cloud Formation templates for custom VPC setups, subnets, and NAT configurations.
* Managed application and system logs using **Amazon S3 buckets and ELK (Elasticsearch, Logstash, Kibana) stack**.
* Evaluated system configurations to ensure compliance with organizational standards.
* Proactively researched and implemented enhancements for various AWS services.
* Developed and implemented custom CloudWatch metrics using **Python scripting**.
* Proficiently used Jenkins for **CI/CD** workflows, incorporating Python scripting for Disaster Recovery automation.
* Effectively utilized SVN and Git for version control within Windows platforms.
* Employed **AWS CLI** for controlling services via Shell/Bash scripting.
* Sound understanding of SDLC methodologies, including both Agile and Waterfall approaches.
* Extensive experience crafting **SQL** queries, stored procedures, triggers, and functions for **MySQL** and **PostgreSQL** databases.
* Strong analytical and communication skills, excelling both individually and as a team contributor.
* In-depth understanding of Unix/Linux systems, virtualization, and cloud administration.
* Extensive administration and configuration experience with AIX, Red Hat Linux, and other Linux distributions.
* Proficient in setting up monitoring tools such as Datadog and Splunk for effective application monitoring.
* Strong problem-solving skills, coupled with excellent organizational abilities and a collaborative team spirit.
* Knowledge of the Software Development Life Cycle (SDLC), **Agile** and **Waterfall** Methodologies.
* Experience in branching, tagging, and maintaining version control and source code management tools like **SVN,** **GIT** on windows platforms.

**Technical Skills:**

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| **Amazon Web Services** | AWS EC2, Volumes, Snapshots, AMIs, ENIs, Tags, IAM, Roles, Policies, IAM users and IAM groups, AWS RDS, Snapshots, RDS subnet groups, S3 Buckets, AWS VPC, AWS subnets, Security groups, AWS CLI |
| **Infrastructure as code** | Terraform 0.8, Aws CloudFormation templates |
| **CI/CD/Automation tools** | Jenkins, Chef, GIT |
| **Scripting** | Shell/Bash, Python |
| **Operating Systems** | Linux/Unix, Windows Server 2012 |

**Professional Experience:**

**Client: Moda Health, located in Portland, OR.**

**Duration: From June 2022 to the present.**

**Position: AWS Cloud Engineer**

**Job Responsibilities:**

* Collaborated extensively with various AWS services, including **IAM, EC2, S3, RDS, VPC, ELB, EBS, CloudWatch, and Auto Scaling**, following industry best practices.
* Proficiently utilized **Terraform** for vital functionalities such as Infrastructure as Code, Execution Plans, and Remote State.
* Played a key role in crafting Terraform templates, employing essential elements such as variables, modules, and data sources.
* Employed **AWS Lambda** for task automation, enabling serverless management and the triggering of code execution via **S3 and SNS**.
* Demonstrated expertise in working with AWS CloudFormation templates.
* Demonstrated adeptness in server management on the AWS platform, employing Chef configuration management tools. Orchestrated the creation of instances on AWS and orchestrated data migration from data centers.
* Leveraged the 'galaxy' command to acquire roles from the Galaxy repository, a prerequisite for playbook usage.
* Devised **Python scripts** for the comprehensive automation of diverse AWS services, encompassing web servers, ELB, CloudFront distribution, databases, EC2 instances, database security groups, S3 buckets, and applications.
* Authored AWS Terraform templates to address a spectrum of automation requisites within AWS services.
* Proficiently managed the generation of database elements in AWS **Redshift**, adhering to AWS best practices for effective data type conversion from Oracle to Redshift.
* Orchestrated Continuous Integration via **Jenkins** and **GIT**, building these processes from the ground up. Formulated Jenkins jobs to streamline code deployments across development, staging, and production environments.
* Took charge of configuring S3 versioning, lifecycle policies, and the archival of files in Glacier storage.
* Displayed adeptness in deploying Java applications utilizing the **Apache Tomcat server** on the **cloud** platform.
* Actively participated in the installation, configuration, backup, recovery, maintenance, and support of various components.
* Integrated **GIT, Nexus**, and other build tools seamlessly with Jenkins, streamlining the build and Continuous Integration workflows.
* Applied submodules within GIT, delivering user education on effective submodule usage.
* Automated the release process by centralizing code deployment through GIT.
* Assumed responsibility for the creation, management, and security of user accounts, as well as monitoring disk space and processes on RHEL, Windows, and Linux/Unix systems.
* Developed **Shell and Python scripts** to streamline diverse tasks through automation.
* Established patch groups, employed patch baselines, and executed patch application on application servers, accompanied by patch-compliance assessment for a comprehensive overview.
* Offered 24/7 on-call support for troubleshooting and resolving Linux-related issues within the AWS cloud environment.

**Technology Environment:** AWS, IAM, EC2, S3, ELB, EBS, Cloud Watch, Lambda, Terraform, Jenkins, Python, Tomcat, GIT, Java, Linux/Unix, Jenkins, MS SQL, and Windows

**Client: Prudential Bank, located in Philadelphia, PA.**

**Duration: From April 2021 to May 2022.**

**Position: AWS Cloud Engineer**

**Job Responsibilities:**

* Employed various **AWS** services, including **VPC, EC2, S3, ELB, Auto Scaling Groups (ASG), EBS, RDS, IAM, and CloudWatch**.
* Engaged in the creation of **EC2** instances, **AWS Volumes**, Snapshots, Amazon Machine Images, and Network Interfaces. Managed resource tagging. Implemented Elastic Load Balancing and AWS Auto Scaling.
* Developed NAT gateways and instances to facilitate communication from private instances to the internet via bastion hosts.
* Played a role in **IAM** setup by establishing Users, Groups, Roles, Identity Providers, and associated Policies. Accomplished tasks such as creating **EC2 AMIs** and automating EC2 instance backups, including migration across regions.
* Established functions and associated roles within **AWS Lambda** for executing Python scripts. Leveraged AWS Lambda with Java to facilitate event-driven processing. Created and configured Lambda jobs, managing Roles using the AWS CLI.
* Implemented AWS solutions utilizing components like **EC2, S3, RDS, Elastic Load Balancer, and Auto Scaling** groups. Optimized volumes and EC2 instances.
* Constructed and configured a virtual data center within Amazon Web Services cloud environment to facilitate Enterprise Data Warehouse hosting. This encompassed Virtual Private Cloud (VPC), Public and Private Subnets, Route Tables, Elastic Load Balancing (ELB), and Security Groups.
* Set up S3 versioning and lifecycle policies for effective backup and archival, including storage in Amazon Glacier.
* Managed storage within AWS using Elastic Block Storage, S3, and accomplished Volume creation and Snapshot configuration.
* Configured Inbound and Outbound rules within AWS Security Groups based on specific requirements.
* Leveraged security groups, **network ACLs,** internet gateways, and route tables to ensure a secure organizational zone within the AWS public cloud.
* Established and configured elastic load balancers and auto scaling groups for traffic distribution, aiming to create a cost-effective, fault-tolerant, and highly available environment.
* Configured **S3 buckets** with diverse lifecycle policies, enabling efficient archiving of infrequently accessed data to specific storage classes.
* Set up, configured, and automated Jenkins Build jobs for Continuous Integration and AWS Deployment pipelines. Integrated various plugins, including Jenkins **EC2 plugin** and Jenkins Cloud Formation plugin.
* Took charge of creating and maintaining continuous build and continuous integration environments within **SCRUM and Agile** projects.
* Facilitated coordination among Development, Database Administration, QA, and IT Operations teams to prevent resource conflicts.

**Technology Environment:** AWS, IAM, VPC, AWS CLI, AWS Lambda, Terraform, ELB, EC2, S3, LINUX, Ubuntu, RHEL, Shell Scripts, Jenkins, Agile, Windows.

**Client: Tech Mahindra, Hyderabad, Telangana, India.**

**Duration: From December 2019 to March 2021.**

**Position: AWS Cloud Engineer**

**Job Responsibilities:**

* Orchestrated the design, deployment, and upkeep of clients' on-premises infrastructure on the AWS platform, consisting of multiple nodes.
* Managed the migration of the client's on-premises **MongoDB** database to the AWS cloud using migration tools.
* Established AWS infrastructure components such as public and private subnets, Route Tables, NAT devices, and VPC peering.
* Created requisite Security Groups and **IAM** Roles tailored to specific EC2 instances.
* Configured **Elastic Load Balancing** (ELB) to intelligently distribute traffic across instances spanning different availability zones. Incorporated instances into Auto Scaling groups to achieve heightened availability.
* Leveraged VS Code to access application code, implementing required functionalities.
* Installed **MongoDB** and Node.js applications on an EC2 instance for development purposes.
* Employed MongoDB Enterprise edition to serve as the data storage solution for client data on an EC2 instance.
* Enabled MongoDB Authentication, attaching User Roles to specific databases to ensure secure authentication via the mongo shell.
* Successfully migrated collections from an on-premises database to MongoDB hosted on an EC2 instance within the AWS cloud.
* Transferred on-premises application code to the AWS cloud environment.
* Designed a backup script to back up S3 bucket data to an **EC2 instance**, running the script via cron jobs.
* Configured and maintained **SVN** as a version control tool, establishing it as a reliable code repository.
* Utilized **AWS Elastic Beanstalk** to facilitate the deployment of Node.js application code.
* Contributed to the creation of CloudFormation templates to enable the streamlined deployment of complete stacks.
* Currently engaged in configuring CloudWatch Alarms to monitor instance load and trigger alerts for instances with excessive or low load.
* Established S3 buckets to house image files generated by client applications.
* Strategized and executed encryption, data backup, and audit measures to achieve **HIPAA** compliance.
* Formulated IAM roles for S3 bucket access and set up **AWS CLI** on instances for S3 bucket interaction.
* Enabled VPC Flow Logs, connecting them to CloudWatch Logs for auditing purposes. Additionally, activated MongoDB side audit logs from configuration files.
* Actively participated in daily **SCRUM** meetings to ensure effective project forecasting and address potential roadblocks.

**Technology Environment:** EC2, MongoDB, Node.js, Python, Linux (Red Hat), JSON, VPC (virtual private cloud), AMI (Amazon machine image), CFT (cloud formation template), Agile and Windows.

**Client: Capgemini, Hyderabad, Telangana, India**

**Duration: From March 2018 to November 2019.**

**Position: AWS Cloud Engineer**

**Job Responsibilities:**

* Established and configured AWS infrastructure, incorporating diverse resources like **VPC, EC2, S3, IAM, EBS, Security Groups, Auto Scaling, and RDS** via CloudFormation JSON templates.
* Constructed servers using AWS, encompassing tasks such as volume importing, EC2 launch, RDS setup, security group creation, auto-scaling configuration, and ELB setup within the designated virtual private connection.
* Executed an Infrastructure as Code approach to environment building, effectively utilizing CloudFormation.
* Managed **AWS EC2** instances through the strategic use of Auto Scaling, **Elastic Load Balancing**, and Glacier for QA, UAT environments, and infrastructure servers supporting **GIT**.
* Established monitoring, alarms, and notifications for EC2 hosts using CloudWatch.
* Provisioned multiple EC2 instances utilizing Terraform templates.
* Implemented automated provisioning of local users on instances deployed in the AWS cloud.
* Ensured robust and available data storage by leveraging S3 data store, versioning, lifecycle policies, and the creation of AMIs to facilitate mission-critical production service backup.
* Designed Python scripts for comprehensive automation of various **AWS services, spanning web servers, ELBs, CloudFront distributions, databases, EC2 instances, database security groups, S3 buckets**, and application configurations. These scripts had the versatility to create stacks, single servers, or integrate web servers into existing stacks.
* Defined AWS Security Groups, functioning as virtual firewalls that regulated traffic access to one or more AWS EC2 instances. Deployed EC2 instances and **ELBs** via CloudFormation within AWS.
* Continuously enhanced the building infrastructure for global software development engineering teams. This encompassed implementing build scripts, continuous integration infrastructure, and deployment tools.
* Leveraged AWS cloud services like EC2, auto scaling, and **VPC** to fabricate secure, highly scalable, and adaptable systems capable of managing both anticipated and unforeseen load spikes.
* Managed and engineered **Jenkins** for overseeing the weekly Build, Test, and Deployment pipeline. Utilized **SVN/GIT** alongside a **Dev/Test/Prod Branching Model** to facilitate weekly releases.
* Crafted AWS CloudFormation templates tailored to establish custom sized VPCs, subnets, and **NAT gateways**, ensuring successful deployment of web application and database templates.

**Technology Environment:** Linux, Git version Control, VPC, AWS EC2, S3, Route53, EBS, IAM, ELB, Cloud Watch, Cloud Formation, AWS Auto Scaling, Jenkins, Unix/Linux, Shell Scripting.