Abhilash Reddy

DevOps/Cloud Engineer

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Linux operations professional (B.S., M.S.) and cloud experience seeks Contract and FTE position with long-term growth opportunities.

* Experience in professional system support and solution-based IT services for Linux OS (**RHEL**, **Ubuntu**, **and CentOS**), **Amazon Web Services** and **OpenStack**.
* Experience in **AWS cloud** deployments using customized VPC, subnets, EC2 instances, ELB and security groups. Worked on tagging standard for proper identification and ownership of EC2 instances and other AWS Services like Cloud Front, cloud watch, RDS, S3, Route53, SNS, IAM, SQS and Cloud Trail.
* Knowledge of databases like **MySQL, Oracle 10g/11g, MSSQL, Mongo DB, Dynamo DB.PL/SQL** for data integrity.
* Experience in analyzing data using **HiveQL**,**HBase** and custom **MapReduce programs** in Java.
* Hands on experience installing, configuring, and using **Hadoop ecosystem** components like **Hadoop 2.x, MapReduce 2.x, HDFS, HBase, Oozie, Hive, Kafka, Oozie, Zookeeper, Spark, Storm, Sqoop**and**Flume.**
* Experience in automating the AWS resources by using Ansible**/Chef/Terraform.**
* Experience in dealing with **Windows Azure IaaS** – Virtual Networks, Virtual Machines, Cloud Services.
* Experience with Bug tracking tools like **JIRA, Bugzilla**& **Remedy.**
* Configured and maintained Jenkins to implement the CI/CD process and integrated the tool with Git, Maven, Nagios and Jira for end-to-end automation and took the sole responsibility to maintain the CI/CD Jenkins server.
* Object oriented programming in Python, SQL Unix/Linux/Windows Shell/Bash scripting
* Responsible for Configure GIT repository integration in RTC
* Solid understanding of fundamental technologies like DNS, Load Balancing, SSL, TCP/IP, networking and security best practices and NGINX.
* Experience in application deployments, the pipelines build and deploy **Aws Lambda** and **Api** gateway resources via continuous integration and continuous deployment to multiple environments.
* Support for implementing redundant monitoring hosts using **Nagios**, tools like [**Splunk**](https://www.cybercoders.com/insights/how-to-add-experience-in-devops-continuous-deployment-to-your-resume/www.splunk.com)for log management.
* Possessed Strong ability to troubleshoot any issues generated while building, deploying and in production support.

**PROFESSIONAL EXPERIENCE:**

**Client: HCA Health Care Physicians Services Group, Brentwood, TN**

**Role: DevOps Engineer Duration: Feb 2023 - present**

**Key Responsibilities:**

* Implementation and customization of alerting and monitoring tools or scripts
* Write automation that will detect and correct issues in various database records within eClinicalWorks
* Act as the primary contact in the coordination and management of minor and major incidents from detection through resolution
* Perform daily operational duties
* Built and deployed various ansible playbooks and modules in the production and pre-production environment.
* Integrated GIT into Jenkins to automate the code check-out process. Used Jenkins for automating builds and automating deployments.
* Proficient in writing complex SQL queries, stored procedures, and triggers in PostgreSQL for efficient data retrieval and manipulation.
* Proficient in deploying and managing cloud infrastructure on Amazon Web Services (AWS) for scalable and secure application hosting.
* Experienced in utilizing core AWS services such as EC2, S3, RDS, IAM, and Route 53 for building and managing cloud-based solutions.
* Experienced in database design, normalization, indexing, and optimization techniques in PostgreSQL to ensure data integrity and performance.
* Experienced in configuring and managing containerized applications on AWS using Amazon ECS or EKS for container orchestration and management.
* Skilled in working with advanced PostgreSQL features such as window functions, Common Table Expressions (CTEs), and JSONB data type for versatile data handling.
* Installed and configured message queuing service RabbitMQ.
* Worked on Ansible core concepts like Inventory, playbooks, roles, tasks and Modules.
* Worked on various eCW version upgrades on both on-prem and azure cloud.
* Skilled in integrating Docker with CI/CD pipelines, version control systems, and container registries for automated build, test, and deployment workflows.
* Knowledgeable in Docker swarm mode, Docker networking, load balancing, and service scaling for managing multi-container applications in a clustered environment.
* Performed system testing and validation of infrastructure to ensure system reliability.
* Coordinated with software vendors to debug Java, Tomcat, and IIS based applications and deliver resolutions.
* Worked on Azure SQL Databases, creating backup files and migrating database schemas.

**Environments:** Python, Shell/Bash, LINUX, JIRA, Azure, Jenkins, Confluence, Ansible, MsSQL, APM, Dynatrace, Splunk, Apache Tomcat, GIT.

**Client: Change Health Care, Nashville, TN (Contractor) Duration: Aug 2020 – Dec 2022**

**Role: DevOps/Systems Engineer**

**Key Responsibilities:**

* Initiating Amazon EC2 Cloud Instances using Amazon Web Services (Linux) and managing and configuring launched instances with respect to specific applications.
* Created monitors, alarms and notifications for EC2 hosts using **Cloud watch, and Nagios, ELK stack** to monitor services other than AWS and real-time application logs streaming.
* Created and managed security groups for Amazon EC2 instances and Network ACLs for VPC subnets.
* Created detailed AWS Security groups which behaved as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
* Managing multiple AWS instances, assigning the security groups, Elastic Load Balancer and **AMIs.**
* Used Amazon Route53 to manage DNS zones and give public DNS names to elastic load balancers.
* Implemented AWS solutions using EC2, S3, RDS, VPC, IAM, Elastic load balancer, Auto-scaling groups, Route53.
* Used IAM to Create new accounts, roles groups for different AWS Accounts.
* Experience on the Logical Volume Manager, managing physical volumes, volume groups, Logical volumes, performing file system management
* Configured volume groups and logical volumes, extended logical volumes for file system growth needs using Logical Volume Manager (LVM) commands.
* Performed the API TESTING for the end points system using POSTMAN and make sure the endpoints are working fine.
* Involved in Design and integrating API’s using Apigee and AWS API gateway.
* Designed a PHP Dashboard to monitor the Status of multiple applications.
* Experience in implementing use of **Nagios** tool for **monitoring** and analyzing **network loads** on individual machines by enforcing custom **Nagios monitoring**, notifications, dashboard to exhibit various metrics using **Shell Scripting**
* Experience developing Solr Indexes using MapReduce Indexer Tool.
* Backup and recovery of HBase data by creating snapshots and using them to clone the tables.
* Extensive Experience in handling Bigdata Hadoop projects and extensively worked in Hive, HBase, Pig, Kafka, Sqoop, Oozie and Sqoop.
* Optimized Map/Reduce Jobs to use HDFS efficiently by using various compression mechanisms.
* Excellent understanding of Hadoop distributed File system and experienced in developing efficient **MapReduce** jobs to process large datasets.
* Configuration of firewall port requests for users and business groups.
* Hands on experience and good working knowledge with Checkpoint Firewall policy provisioning.
* Troubleshoot connectivity issues and Monitor health of the firewall resources as well as work on individual firewall for advanced troubleshooting.
* Network services configuration including **HTTP/HTTPS, DNS, FTP, NFS, SSH and NTP**.
* Experienced in Real time data ingestion into **HBASE** and **HIVE** using **Storm**.
* Worked on **Big Data Integration** & Analytics based on **Hadoop, SOLR, Spark, Kafka, Storm and web Methods.**
* Used Impala to analyze data ingested into HBase and compute various metrics for reporting on the dashboard.
* Implemented Java HBase MapReduce paradigm to load data onto HBase database on a Hadoop cluster.
* Import the data from different sources like HDFS/HBase into Spark RDD.
* Worked on cloud watch to monitor the resources such as EC2 CPU memory, Amazon to design high availability applications on AWS across availability zones.

**Environment:** Linux, AWS, Nagios, JIRA, Apache, Storm, HBase, Hive, Kafka, Kerberos, HDFS, CDP, GitLab, Ansible, Java, PHP, Shell/Bash Script, Route53, IAM, CloudWatch, AWS Lambda, S3, EC2, Security Groups, Confluence, TCP/IP, DNS

**Client: HCA Health Care Physician's Services Group, Brentwood, TN**

**Role: DevOps/Systems Engineer Duration: Aug 2019 to July 2020.**

**Key Responsibilities**:

* Support, maintain and monitor application database and interface servers for the eClinicalWorks EMR (Electronic Medical Records) application.
* Visualize and communicate performance and EMR data with Splunk to stakeholders and management.
* Build monitoring and altering dashboards in Splunk to proactively correct problems within the eClinicalWorks EMR.
* Develop automated solutions for various applications and/or web services. Languages include Python and Power shell.
* Manage our internal Single Sign on Platform using PowerShell and APIs.
* Utilize PowerShell/Power CLI to automate various administrative tasks.
* Design, develop, Architect and Implement Azure migration issues solutions with FTP, vnet, subnet configuration for SQL servers' clusters and datacenter clusters.
* Working with DBA(SQL), Network, UNIX, and Application Engineers for troubleshooting purposes.
* Experience Demonstrate a solid understanding of computer performance metrics and tools, to include understanding of CPU utilization levels, CPU and disk queuing, I/O response times, and other key performance indicators and their impact on performance.
* Understanding Splunk applications to perform adequate troubleshooting.
* Used **JIRA** for assigning tickets to our team, and had to update the status, story of the tickets as per the sprint setup.
* Depended on **Confluence** for documenting the progress of Projects and Sprints.
* Responsible for design and maintenance of the **Subversion/GIT** Repositories, views, and the access control strategies.
* Worked on **Azure Resource Manager** for creating and deploying templates, assigning roles, and getting activity logs.
* Monitored application requests across **IIS**server by creating worker process and containerized the process through an application pool.
* On the other hand, I also achieved building of **C#**application by integrating Visual Studio.
* Used **Jenkins** for automating Builds and Automating Deployments.
* Maintained Jenkins servers to deploy into production and non-production environments.
* Provide application support to production support team.

**Environments:** Python, Shell/Bash, LINUX, JIRA, Azure, Jenkins, Confluence, Splunk, MsSQL, Ansible, Apache Tomcat, GIT.

**Client: TransAmerica, Dallas, TX Duration: Sept 2016 - July 2019**

**Role: DevOps Engineer**

**Key Responsibilities:**

* Maintaining the AWS 'Big-data' Infrastructure within the environment.
* Security of the AWS services defining roles and policies for the usage of the services in Identity and Access Management, restricting, limiting capabilities and permissions.
* Creating "Data pipeline" for "Big data" processing and automating the workflows.
* Maintaining the support for all the applications running within the Data Lake processing unit such as "Hadoop", "Hive", "Hue", "Airflow" etc.
* Implementing and designing strategical solutions for dataops resources and build security around the workflow.
* Managed AWS Infrastructure as Code using Terraform.
* Writing templets for AWS infrastructure as a code using Terraform to build staging and Production Environment.
* Securing the infrastructure and providing the team with necessary guardrails that should be taken for building platform for onboarding Bigdata applications.
* Resource utilization and auditing the cost of the services consumed in the 'Hybrid Cloud' and Applications.
* Maintaining Continuous development and Continuous deployment infrastructure within the team and help developers to achieve their goal.
* Building the configurations using the scripting languages to ease the effort in creating resources manually.
* Establishing Secured layered infrastructure and providing innovative capabilities for maintaining and developing the applications within the infrastructure.
* Providing Infrastructure as a Service (lAAS) and Infrastructure as a Code (IAAC) capability for developing and deploying the applications on to the Cloud environment.
* Assisting the internal application development teams with the secure capabilities of deploying their applications with AWS deployment tools like 'Code Build', 'Code Deploy' and 'Jenkins' etc.
* Performing major scripting for automation using 'Python' and creating Lambda functions for deployment triggers.
* Handling the major task compilations and identifying the automation Challenges within the application and implementing the solution using various Infrastructure tools such as Jenkins, Git, AWS (S3), EC2, VPC, Cloud-formation, Terraform, Lambda, and Python etc.
* Automating cloud services using APl's provided by AWS standard Boto SDK's.

**Environment:** WAS6.0/6.1/7.0, IBMHTTPServer7.0, IIS6.0/7.0/7.5, JavaScript, shell, bamboo, AWS, Docker, VMware, AIX5.x/6.x, RESTAPI, Kubernetes, Ansible, Solaris, LINUX, Windows, CA Site Minder, GIT, Jenkins, SQL.

**Client: Charter Communications, Denver, CO Duration: June 2015 – Aug 2016**

**Role: DevOps Engineer**

**Key Responsibilities:**

* Created AWS S3 buckets, performed folder management in each bucket, Managed cloud trail logs and objects within each bucket.
* Integrated Amazon Cloud Watch with Amazon EC2 instances for monitoring the log files, store them and track metrics.
* Configured complex middleware environments with several variations of tomcat installations consisting of 3-5 instances in each installation.
* Building and migrating Linux Servers (Red Hat Enterprise and CentOS) virtual machines
* Leveraged AWS S3 service as Build Artifact repository and created release-based buckets to store various modules/branch-based artifact storage.
* Installed & Configured Logical Volume Manager - LVM and Veritas Volume Manager on Sun Solaris and Red Hat Linux Hardware
* Our development environment included Git, Mac OS, Ruby 2.1.2, Atom, Ruby Mine as well as web interfaces for Atlassian Jira, Confluence. Public services included GitHub, CentOS, Ubuntu, Vagrant, Chef, Kitchen CI and AWS EC2.
* Experience in Installation of Oracle and MySQL
* Scheduled daily and weekly jobs using SQL Server Agent.
* Strong comprehension of central advancements like **DNS, Load Balancing, SSL, TCP/IP, systems administration**and security best practices.
* Designed and implemented F5 BIG-IP load balancers, used with web and database applications.
* Utilize Puppet for configuration management of hosted Instances within AWS.
* Experienced in Installing, Configuring & Monitoring using NAGIOS, Site scope and GRAPHITE.
* Worked on Docker container snapshots, attaching to a running container, removing images, managing directory structures and managing containers.
* Maintained over 40+jobs in Jenkins from 8 different Application teams for over 4-5 releases in parallel.

**Environment:** GIT, Ant, Jenkins, NEXUS, Ansible, InstallShield, Windows PowerShell, AJAX, Tomcat,

Middleware, AWS cloud, WebLogic Servers, GIT, Jenkins, SQL, Load Balancer, DNS, TCP.

**Education:**

Masters in information technology, Wilmington University, DE

Bachelors in computer science, JNTUH, HYD, INDIA