Lanre Bolaji

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Work Experience

Engineer Professional Leidos
AWS DevOps
January 2021 to Present

Responsibilities:

· Develop and maintain infrastructure as code using tools like AWS CloudFormation,

AWS CDK, Terraform, or other similar frameworks. This involves creating templates to provision and manage AWS resources programmatically.

· Design, implement, and optimize CI/CD pipelines for automating the build, test, and deployment processes. Use tools like AWS CodePipeline, AWS CodeBuild, and AWS

CodeDeploy to achieve rapid and reliable application releases.

· Set up and configure monitoring, alerting, and logging solutions using AWS

CloudWatch, AWS CloudTrail, and other tools. Ensure visibility into the performance, health, and security of applications and infrastructure.

· Implement auto-scaling strategies to ensure applications can handle varying workloads efficiently. Use AWS services like Auto Scaling Groups, Amazon EC2 Auto

Scaling, and AWS Elastic Load Balancing to manage resource allocation dynamically.

· Design and implement architectures that provide high availability and fault tolerance. Set up multi-region deployments and disaster recovery strategies using

AWS services like Amazon Route 53, AWS Global Accelerator, and AWS Backup.

· Apply security best practices to secure AWS resources and applications.

Implement identity and access management (IAM), encryption, and network security controls to protect data and infrastructure. Ensure compliance with industry standards and regulations.

· Manage software configurations and updates using tools like AWS Systems

Manager, Ansible, or Chef. Maintain consistency and repeatability in deployments across different environments.

· Monitor and analyze system performance to identify opportunities for optimization in terms of cost, performance, and resource utilization. Implement cost-saving measures such as reserved instances and spot instances.

· Foster effective communication and collaboration between development, operations, and other cross-functional teams. Participate in agile and DevOps practices to facilitate a culture of continuous improvement.

· Diagnose and resolve issues in a timely manner, employing problem-solving skills to identify root causes. Develop incident response plans and participate in on-call rotations to ensure system availability and reliability.

· Maintain accurate documentation of system configurations, processes, and best practices. Share knowledge with team members and contribute to the organization's knowledge base.

· Staying up-to-date with the latest AWS services and DevOps tools, and evaluate their applicability to improve existing processes and systems.

· Familiarity with security frameworks such as Cloud Security Alliance (CSA),

International Organization for Standardization (ISO), National Institute of

Standards and Technology (NIST), IBM ITCS104, etc

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· Working knowledge of software development tools and methodologies. Datacenter migration, especially involving Linux Servers and complex Linux workloads.

· Experienced with EC2, VPC, Route53, ELB, S3, EMR, and Redshift, supporting networking and management/monitoring services.

· Developing high-quality, enterprise-scale software products using AWS technologies such as AWS Code Commit, Code Build, Code Deploy, and Code Pipeline.

Building enterprise-class, highly available CI / CD pipelines from code in a highly elastic, cloud-native environment.

· Application, server, and network security. Worked on infrastructure with Docker containerization, Kubernetes is being used to orchestrate the deployment, scaling, and management of Docker Containers.

· Worked on Micro Services deployments on AWS ECS and EC2 instances, actively worked on Docker, and deployed and maintained Microservices in Dev & QA environment.

· Implemented docker-maven-plugin in maven pom.xml to build docker images for all microservices and later used Docker file to build the docker images from the java jar files.

· Management tools. Database: MySQL, MySQL 5.6, T-SQL, MongoDB, Neo4J, Enterprise

Oracle, Pl/SQL, RDBM in one or more AWS Competencies or general cloud-managed services.

· DevOps Tools: Jenkins, Ansible, Prometheus, Docker • OS: Windows, Linux •

Software: Apache, Nginx • Container Technology & Management, Kubernetes, Docker

Swarm • Programming: Shell, Bash, YAML, JSON, PHP Deploy, manage and maintain applications and systems deployed to AWS.

· Proactively look for ways to enhance the functionality, reliability, and operation of the pipeline. Experience working with AWS cloud and DevOps.

· Manage the development of a robust Cloud Platform sitting on AWS architecture.

· Shared best practices and guides with engineers while implementing

Infrastructure as a code, using Terraform or CloudFormation.

· Architected and led the development of a multi-cloud e-commerce platform that seamlessly utilized AWS Lambda for event-driven processing, Azure Cosmos DB for globally distributed data storage, and Google Kubernetes Engine for containerized microservices.

· Spearheaded the migration of legacy applications to a multi-cloud environment, resulting in a 50% reduction in infrastructure costs and a 40% improvement in application response times.

· Collaborated with cross-functional teams to establish cloud governance policies and best practices across AWS, Azure, and Google Cloud, ensuring consistent security and compliance standards.

· Designed a disaster recovery solution that replicated critical workloads across multiple cloud providers, minimizing downtime and data loss risks.

Experienced

Hadoop Administration Leidos-Baltimore, MD

November 2018 to May 2019

· Served as primary liaison for the cluster architecture aspects of the project.

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· Built and managed Hadoop and Spark cluster environments

· Configured HDFS, YARN, MapReduce, Hive, Pig, Spark, Sqoop, Oozie, etc

· Worked on Cluster sizing

· Cluster configuration

· Smoke testing

· Service allocation

· Security setup – Knox, Ranger, and Kerberos

· Performance tuning and ongoing monitoring.

· Contribute to the planning and implementation of hardware and software upgrades.

· Work with Operations on monitoring and troubleshooting incidents to maintain service levels.

Hadoop Administration and Linux Administration WEFIX-Baltimore, MD
August 2015 to November 2018

· Hadoop ecosystem: HDFS, YARN, MapReduce, Hive, Pig, Spark, Sqoop, Oozie. Etc.

· Experience in installation/ configuration of Hadoop clusters from scratch.

· Experience in troubleshooting and analyzing Hadoop cluster services/component failures and job failures.

· Comparing the SRM standard to the manufacturers against the acceptable parameters

· Maintaining the ISO requirements and compliances

· Experience with cloud technology, OpenStack -management

· Experience with Git, the vagrant

· Manage and maintain VMware vSphere environment.

· Server builds and deployment (CentOS, RHEL), using interactive and advanced installation methods (Kickstart)

· Build secure golden images for servers and Virtual Machines - configuring securely and administering application servers (WebLogic, Tomcat), HTTP servers and proxies (Apache, Nginx), and load balancers

· Hardening and patching of CentOS and RHEL servers. Patching in Linux using Yum

· Troubleshoots hardware and connectivity issues affecting productivity.

· Build yum repositories and patch Linux servers.

· Setting up, configuring, and troubleshooting TCP/IP, DHCP, DNS; NFS, CIFS, and

Samba servers in a multi-platform LAN.

· Monitoring and log management on UNIX, Linux, and Windows servers, including processes, crash and swap management, and performance tuning.

· Creates and administers User accounts, and manages User security, password recovery, aging, and complexity.

· Regulates access to system resources by configuring Access Control List (ACL)

· Create and manage LVM volumes and participate in root cause analysis.

· Custom Nagios monitoring.

· Installed new/existing servers and configured services, settings, directories, storage, etc. in - accordance with project/operational requirements.

· Monitors & troubleshoots OS performance-related issues.

· Creates & manages UNIX user accounts and groups and permissions on all UNIX boxes.

· Create, extend, and manage Linux file systems via LVM.

· Applies quarterly patches to all Linux environments per company policy.

· Perform daily system monitoring, verifying the integrity and availability of all hardware, server resources, systems, and key processes, reviewing system and application logs, and verifying completion of scheduled jobs.

Linux System Administration Neurons Software Consultants Pvt Ltd-Baltimore, MD
January 2013 to August 2015

· Applied OS patches and upgrades on a regular basis and upgrade administrative tools and utilities.

· Configure/add new services as necessary. Remote administration of servers SSH.

· Performed ongoing performance tuning, and resource optimization as required.

· Maintained customized user environments using sudo for system administrator access on test and production servers.

· Managed systems routine backup, scheduling jobs, and enabling cron jobs.

· Performed Software and patch installation for Linux using RPM and YUM package manager

· Troubleshooting and performance tuning of various systems problems such as application, network, and hardware-related issues.

Cloud Architect/DevOps Engineer

AWS

Summary: A well-rounded Cloud Architect Associate/DevOps Engineer with years of

Implementation experience in AWS Services and tools, Azure service tools, and GCP services tools. Expertise in implementing and maintaining system applications in

Cloud using Windows and Linux. Also, a DevOps Engineer with Big data experience including Hadoop, Spark clusters, and Linux System administration in on-premise and Cloud environments. Experienced in SAFE Agile Ceremonies with a great understanding of the Core Values and Principles that enable value delivery.

Hadoop Big Data Administrator Leidos-Baltimore, MD

Accomplishment:

· Installed and configured Hadoop on a multitenant cluster, which created a robust environment for testing and validating applications/code before using it in the

Production environment. This largely improved the stability of the Production environment by 99.9% uptime.

· Executed a well-defined Oozie workflow to manage different types of jobs processed in the Hadoop cluster, improving users' time to complete workflow.

· Managed a high-performing Hadoop cluster running Hive Databases for 1,500 users and 86 organizations submitting over 60,000 queries per day.

· Managed AWS EMR production clusters, and completed monthly cluster patching on all servers within the EMR cluster to improve system stability which yielded greater than 99.9% uptime month-to-month during business hours for all user services

· Experienced in SAFE Agile Ceremonies with a great understanding of the Core

Values and Principles, enabling value delivery.

· Managed successful routine monthly server patching from Development and integration to Production on the multi-cluster environment. Maintaining a good security report on vulnerability findings.

· Experienced in managing and reviewing Hadoop log files

· Loaded and transform large sets of structured, semi-structured, and unstructured data

· Responsible for managing data coming from different sources and application

· Supported Map Reduce Programs that are running on the cluster

· Involved in loading data from the UNIX file system to HDFS.

· Installed and configured Hive and wrote Hive UDFs.

· Involved in creating Hive tables, loading with data, and writing Hive queries which will run internally in the map-reduced way.

· Responsible for Cluster maintenance, Monitoring, commissioning, and decommissioning of Data nodes, Troubleshooting, Managing and reviewing data backups, and managing & reviewing log files.

· Day-to-day responsibilities include solving developer issues, deploying code from one environment to another, providing access to new users and providing instant solutions to reduce the impact, documenting the same, and preventing future issues.

· Adding/installing new components and removing failed data nodes from the cluster.

· Collaborated with application teams to install an operating system on Hadoop updates, patches, versions, and upgrades.

· Monitored workload, job performance, and capacity planning

· Involved in Analyzing system failures, identifying root causes, and recommending a course of action.

Education

Professional Institute LPIC

B.sc in DevOps

Purdue University

Skills

- Kubernetes

- Ansible

- SIEM

- Virtualization

- Azure

- CI/CD

- Perl

- Hadoop

- AWS

- SDLC

- Jenkins

- Customer support

- Big data

- Cloud architecture

- Machine learning

- Scripting

- Terraform

- Skills: Cloudera Hadoop, Hortonworks Hadoop, Apache Hadoop, VMware, Active Directory, Red Hat, and CentOS System Administration
  AWS: Extensive experience in AWS services (EC2, S3, Athena, EMR, AWS Glue) and understanding of core AWS services, uses, and basic AWS architecture best practices (including security and scalability). Worked on migration of on-prem environment to AWS cloud platforms.
  Hadoop Developer Training: Big Data Architecture and framework including Hadoop ecosystem, writing and running queries on Python, MapReduce, Pig, Hive, Spark, Impala. (On-going).

- DevOps

Links

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