**AYO AMUSA**

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**Sr. DevOps/DevSecOps & Infrastructure Engineer**

**EXPERIENCE SUMMARY**

* Overall 15 years of combined, cross-platform experience in Cloud (AWS, Azure), DevOps, Database (Oracle/MySQL/MS SQL) and Linux/Unix Systems, and Security Administration in – LINUX, UNIX, Windows and Cloud (IAAS, SAAS, PAAS) environment.
* 5+ years’ experience as a Cloud Engineer, DevOps, DevSecOps and Cloud Infrastructure Engineer with hands-on experience in AWS, AZURE, Ansible, Puppet, Cloud Formation for build automation
* Expert level experience with AWS tools, technologies and APIs associated with IAM, Cloud-Formation, AMIs, SNS, EC2, EBS, S3, RDS, VPC, ELB, IAM, Route 53, Security Groups, Lamda etc.
* Experience with Azure DevOps, Azure Virtual Machines, Scale Sets, Container Registry, Database, DNS, VPN, Firewall, Load Balancer, and Active Directory.
* Experience with the Azure portal, Azure PowerShell, ARM templates, and other Azure technologies.
* Solid knowledge of Azure Pipelines and other configuration management build/release processes such as Azure Boards, Azure Repos, Azure Artifacts and Test Plans
* Experience with continuous development, Integration and deployment (CI/CD) pipeline using Jenkins, GitHub, Code Deploy, Code Pipeline, Docker, Terraform, Vagrant and so on
* Experience deploying highly scalable and fault-tolerant services within public and private cloud infrastructure (AWS, MS Azure, Google Cloud, SAAS, IAAS, PAAS, VMware, Kubernetes)
* Experience with deploying configuration management and CI/CD services such as Ansible Tower, Ansible, PowerShell, Jenkins, Docker, JIRA, CloudFormation, Elastic Beanstalk, Code-commit, Git
* Solid knowledge of Container and container orchestration services such as Docker, AWS ECS, EKS, AKS, Kubernetes and OpenShift.
* Knowledge of Cloud and Container Security monitoring, scanning and analysis tools – AWS Security HUB (GuardDuty, AWS Config, Macie), Prowler, Prisma Cloud (Redlock), Twistlock, Tenable, Cloud Custodian, Datadog and so on.
* Exposure to FEDRamp, SSAE16 SOC 2, PCI DSS
* Solid knowledge of the AWS Well-Architected Framework to help Organizations build secure, high-performing, resilient, and efficient infrastructure for their applications
* Solid knowledge of Source/Version Control Tools: SVN, Git, GitHub, Artifactory, DockerHub
* Networking (DNS, TCP/IP, HTTP, SSL), Support / Troubleshooting experience
* Experience in monitoring, metrics collection, and reporting using open source and other tools such as Nagios, Splunk, AWS Cloudwatch, Telegraf, Graphite, Grafana, New Relic, ELK stack and so on
* Proven ability to manage database infrastructure in AWS (RDS and EC2) and LAMP servers
* Excellent systems administration skills (Windows and Linux Servers – Red Hat, Ubuntu, AIX, Solaris)
* Experience in other public clouds and virtualization technology such as MS Azure, Google Cloud Platform, VMWare, Open stack, Kubernetes
* Hands-on experience migrating Oracle, SQL Server and other database data into AWS
* Experience installing, configuring, and maintaining services - Bind, Apache, MySQL, Nginx, LAMP etc.
* Strong hands-on background in database technologies (Oracle RAC, MySQL, MS SQL, RDS, DynamoDB, AWS Aurora, RedShift, Athena, Datapipeline)
* Expertise with IPsec, VPN, Load Balancing, Routing Protocols, SSH, Network Monitoring / Troubleshooting tools
* Knowledge of IT security principles, continuous Integration and Deployment experience
* Proficient in “High Availability” concepts including database recovery procedures, HA design and effective disaster recovery planning
* Experience understanding networking concepts for example VPN, PKI, IPsec.
* Thorough understanding of IAM solutions, SSO, Federation & STS to deliver secure cloud services interaction and environment access
* Experience with web deployment technology specifically including Linux, Apache, Tomcat, and Java.
* Proficient in Tomcat, JBOSS (Middleware admin on Unix platform)
* knowledge of Oracle 10g/11g/12C Database, RAC/ASM/HA and Data Guard environment
* Experience with implementing/maintaining database security, applying STIGs and CPU/PSU patches
* Good knowledge of security management, auditing methodology and technology risk assessment
* Experience with requirements of the Federal Information Security Management Act (FISMA)
* Demonstrated knowledge of NIST security controls and corresponding frameworks
* Strong working knowledge of storage environments (SAN, NAS)
* Experience working with all phases of the software development lifecycle (SDLC).
* Familiarity with Agile Development Methodology
* Ability to participate in off-hours on-call rotation and provide 24x7 support

**TECHNICAL SKILL SUMMARY:**

* **AWS Services:** EC2, S3, EBS, AWS Directory Service, AWS security, Lambda, IAM, RDS, VPC, NAT, VPC, Auto-scaling, Cloud Trail, Route53, Landing Zone, Control Tower, Systems Manager, CloudWatch, ECS, EKS, Cloud formation
* **Azure Services:** Azure DevOps, VNet, VM, Storage Account, Azure AD, ACR, AKS, Azure Functions, Azure SQL DB, ARM Template, Azure Key Vault
* **Cloud & SaaS Platforms:**  Google Cloud, Kubernetes, VMWare, Docker, OpenShift, Vagrant, Oracle virtualBox
* **DevOps/CICD**: Ansible Core/Tower, Terraform, PowerShell, Bash, Docker, Jenkins, Python, Git, Jira
* **Containers and Serverless:** Docke**r,** AWS ECS, EKS, Fargate, Kubernetes, AKS, OpenShift, Lambda
* **Database**: Oracle, MS SQL, MySQL, Aurora, AWS RDS, Dynamo DB, Mongo DB
* **Compliance/Standards:** CoBIT 4.0, FISMA, HIPAA, NIST 800- 53, CIS, SOC2, FIPS 199, FedRamp

**EDUCATION AND TRAINING**:

* ***MASTERS:*** *INFORMATION SYSTEMS SECURITY*, COLORADO TECH. UNIVERSITY, USA
* **MASTERS**: ELECTRICAL/ELECTRONICS ENGINEERING, NNAMDI AZIKIWE UNIVERSITY, NIGERIA
* **BACHELOR**, *COMPUTER SCIENCE*, NNAMDI AZIKIWE UNIVERSITY, NIGERIA

**PROFESSIONAL CERTIFICATIONS:**

* AWS CERTIFIED SOLUTIONS ARCHITECT – Associate Level **(ACA)**
* CERTIFIED INFORMATION SECURITY AUDITOR (**CISA**)
* ORACLE CERTIFIED PROFESSIONAL-Exam (**OCP**)
* ORACLE CERTIFIED ASSOCIATE (**OCA**)
* MICROSOFT CERTIFIED TECHNOLOGY SPECIALIST (**MCTS**)
* MICROSOFT CERTIFIED PROFESSIONAL (**MCP**)

**DETAILED EXPERIENCE:**

***Sept. 2017 – Present*: COTH Technologies Inc.**

***Sr. DevSecOps / Cloud Infrastructure Engineer (AWS/Azure)***

* Responsible for designing, implementing, and maintaining highly available, scalable, and self-healing systems on the AWS platform using services like Cloud-formation, AMIs, Load-balancer, Auto-scaling, RDS and so on.
* Responsible for monitoring and maintaining the health of TFS and Azure DevOps infrastructure, such as App Servers, Build Servers, Test Servers and SQL Servers.
* Responsible, for the implementation of security assessment, auditing and hardening of AWS and other Cloud Accounts through automation, using tools like Prowler, Prisma Cloud, AWS Config, GuardDuty and others.
* Responsible for the automation of infrastructure services on Azure.
* Performs automation of tasks, patch management, O.S and application inventory management, secure AMI creation and life-cycle across AWS resources using AWS System Manager (SSM), CloudWatch event, Lambda, SNS, Cloud formation, Amazon Inspector, Service Catalog and other tools
* Responsible for building and maintaining resilient, secure, and efficient SaaS application platform to meet established SLAs
* Assess, implement, automate, and document security solutions and processes for Amazon Web Service (AWS), MS Azure, SaaS applications and other cloud platforms
* Experience extracting pertinent security data from SIEM solutions and AWS audit, logs, and reports
* Understanding of Federal Government application, server, and network security requirements such as FISMA and FedRAMP.
* Maintain records necessary for audit compliance, including but not limited to PCI, SOC2, FedRAMP and others.
* Setup AWS Security Hub for central management and view of security alerts and automation of compliance checks using tools like Amazon GuardDuty, Amazon Inspector, Amazon Macie, AWS Config, AWS Systems Manager, WAF, Elasticsearch
* Supports Customers AWS environments through shell scripting, SQL, Lambda, Python, Powershell, AWS System Manager across multiple accounts.
* Responsible for designing and developing automation within an Agile environment to support continuous delivery and continuous integration processes.
* Responsible for building, maintaining, and extending existing SAAS offerings, in addition to the architectural design and construction of new AWS infrastructure
* Work with the team to build out automation templates in Fugue, AWS CloudFormation or Terraform in support of the managed services platform.
* Work closely with the application and architecture teams to conduct proof of concept (POC) and implement the design in AWS Test and Production environments.
* Provide day to day support for the operations of all Cloud infrastructure, platform, applications and services in the development, testing, performance and production environments, using monitoring tools like CloudWatch, CloudTrail, Splunk, AppDynamics, New Relic and so on
* Responsible for automating deployment, monitoring, management and incident response using configuration management and CI/CD tools like Puppet, Ansible, Cloud Formations, Jenkins, Docker and other AWS services
* Responsible for automating provisioning of AMIs for multiple platforms from a single source configuration using packer and ansible

***May 2017 – Sept. 2017*: CompuGain (Sungard/3M)**

***Sr. Security DevOps / Cloud Engineer***

* Responsible for designing and deployment of Enterprise-wide monitoring tools (Telegraf, CloudWatch, Graphite, Grafana) using Cloudformation, Lamda and Puppet
* Responsible for automating backup and Disaster Recovery process for RDS and EC2 snapshots using Lamda functions and python boto3
* Knowledge of FedRAMP policies
* Responsible for Building out and improving the reliability and performance of cloud applications and cloud infrastructure deployed on Amazon Web Services
* Advanced understanding of best practices and techniques to maintain and enhance system and information security, as well as an understanding of compliance with government security standards (NIST, FedRAMP)
* Provide technical leadership to the design, development/implementation, and testing of business solutions deployed on the Enterprise DevOps platforms and integrating with other applications
* Automate installation of patches and updates as appropriate on production, development, test environments and staging environments in both Cloud and on-premise environments using Ansible.
* Deployed configuration management scripts in Ansible, Puppet, bash, Python, SQL to automate database and web application deployment, maintenance, and updates in the AWS cloud
* Identify risks by software, information category and role, and define risk mitigation strategies for Cloud Security.
* Implement cloud security policies and monitor compliance to the policies
* Hands-on knowledge of AWS Cloud Formation and Elastic Beanstalk (EBS) for code/resource template and deployments into Development, Test and Production web and application server environments
* Responsible for administration, configuration, troubleshooting and support of server environments running under various Operating Systems including Linux (Redhat, Ubuntu), Windows and AIX.

***Jan. 2014 – May 2017:* Oracle Corporations (COTH Solutions)**

***Sr. Principal Consultant (DevOps / Cloud)***

* Develop information security policies, procedures required to design cloud-based solutions
* Perform regular day-to-day Systems Administration activities such as User Administrations, Disk Management, Package Install, Patch Management, Storage Management, NFS Administration and disaster recovery/fail-over exercises.
* Interface with different departments within the organization regarding new deployments
* Participates in the building of the next generation of web applications and systems infrastructure, focusing on automation, CICD pipeline, availability and performance
* Recommends, plans, designs, builds, document and deploy middleware infrastructure upgrades
* Create Amazon Virtual Private Cloud (VPC) resources such as subnets, network access control lists, and security groups
* Work with Jenkins for parameterized, upstream/downstream build Automation
* Work with Developers on tools like Vagrant and Docker - for building and deploying applications on cloud environment
* Responsible for Agile and project management and tracking by using tools like JIRA, confluence, ServiceNow, Okta etc
* Collaborate with Developers, DBA, Application, Security, and NOC teams on designing scalable and highly available cloud-network infrastructure platforms
* Responsible for building Puppet modules, Roles and Profiles for installation, configuration, Clustering, performance tuning, client/server connectivity.
* Responsible for monitoring, tuning and troubleshooting of Oracle database, RAC, GoldenGate and other middleware stacks.

*Jun. 2013 – Jan. 2014*: **International Software Systems Inc.** (Vendor: ENVIRONMENTAL PROTECTION AGENCY)

***Principal Consultant (AWS Cloud / Database)***

* Responsible for configuring/migrating RDBMS across AWS availability zones for availability, performance and disaster recovery
* Manage, deploy and install Oracle databases on RAC and non-RAC hardware
* Configured backup/restore and DR solutions for the database stack in AWS in EC2 instances and RDS
* Provide Database Administration support for business-critical applications in production and non-production environments.
* Worked with client key contacts, 3rd party IT and vendors to establish and test VPN or other network or application connectivity as required
* Understand client’s data security needs and applicable standard compliance requirements and help design solutions fulfilling those requirements
* Managed the operating system configuration including initial server configuration, modifying configuration files, system configuration documentation and access to system configuration files
* Responsible for the installation and configuration of Oracle Fusion Applications Releases
* Maintained Load balancing, high availability and Fail over for the weblogic servers
* Sets up Oracle 12c Enterprise Manager for monitoring Weblogic applications and databases.
* Responsible for configuring and backing up database using RMAN, Hot, Cold and Logical backups
* Provides best practices and methods for rapid migration of databases and file structures to the AWS
* Handles space related issues on tablespaces and storage related issues on file systems.
* Optimization and tuning SQL queries using sql\_trace, TKPROF, explain plan, AWR/ADDM, ASH
* Responsible for the Oracle Cluster ware installation/administration/deployment - ASM administration and RAC installation/administration/deployment
* Responsible for monitoring servers and databases utilization on daily basis by using OEM report, SQL and Shell scripts to gain 100% Uptime.
* Implement and maintains oracle Active DATAGUARD (both logical/physical) databases
* Responsible for analyzing ADDM, AWR and ASH reports and troubleshooting performance issues with advisors like SQL Tuning, SQL Access, and Memory advisor.

*Oct. 2011 – June, 2013* **ManTech Int’l\Evolvent Tech** (Vendor: DEPARTMENT OF DEFENSE)

***Sr. Principal Database/ Linux System Engineer***

* Responsible for testing and implementation of OS and applications patches as well as new application deployments into the environment.
* Maintained upgrades and administer over 300 production database sites including RAC databases for the Military Medical Departments on the Defense Medical Logistics Standard Support program.
* Managed the deployment, maintenance, and upgrade process of Applications developed by different development groups and teams
* Ensure the availability, scalability and performance of the Linux environment
* Performed installation and configuration of systems, custom and third party software packages
* Developed and maintained operational documentation and specifications on system builds, disaster recovery documentation, and other standard operating procedures
* Troubleshoot and fixed errors common to Applications and Application servers – weblogic, Apache
* Responsible for installing, configuring, patching, upgrading Oracle db instances and RAC DBs
* Installed and configured Oracle GoldenGate 11g Release 2 with patchset 11.2.1.0
* Work with IA and Security Teams in running the DBSRR scripts and completing DBSRR and DRW documentations for STIG requirements and maintaining database security
* Migrated RAC databases to new SAN environment and upgraded from 10G to 11G R1/R2
* Performed export/import using Data Pump (Imp/Exp) from one database to another per requests.
* Responsible for database backup strategy, restore and recovery using RMAN, imp/exp utilities.
* Responsible for performance tuning, profiling, troubleshooting and issue resolution across complex Oracle 11g RAC and non RAC environments, ASM, Oracle 10g and 11g (R1/R2).
* Monitor databases using tools like SQLPLUS, TOAD and Oracle Enterprise Manager Grid Control
* Responsible for the implementation of Database Encryption, Security and Auditing, Capacity Planning for databases, servers and storage and provide 24x7 on-call rotation support
* Responsible for working on Oracle RAC 11gR2 install scripts for Linux and Windows server 2008.
* Implemented and managed GoldenGate components – Extract, Replicat, Manager, Trails and others
* Resolve critical business issues by providing technical expertise for Oracle RDBMS, including RAC, Data Guard and other underlying infrastructure technologies
* Responsible for developing, implementing, and overseeing database policies and procedures to ensure the integrity and availability of databases and their accompanying software.
* Performed Platform-Specific Oracle RAC Installation, Configuration and administration.

*Nov. 2010 – Sept. 2011*: **HP Enterprise Services** (Vendor: DEPARTMENT OF DEFENSE)

***Sr. DATABASE ADMINISTRATOR***

* Maintain upgrades and administer over 160 production database sites for The Military Medical Departments on the Defense Medical Logistics Standard Support (DMLSS) program.
* Configured Weblogic Server clustering and setup Node Managers and Admin Servers.
* Worked with Developers for database development including reviewing stored procedures
* Manages database users, roles, privileges and access in Test and Production environments
* Responsible for reviewing database security vulnerabilities and Critical Patch Updates
* Responsible for proactively monitoring the database systems and ensure minimum downtime
* Developed and maintained standard solutions for database patching, monitoring, management, migrations, upgrades and technical refreshes
* Responsible for handling problem escalation with Oracle/vendors as appropriate
* Configure and build heartbeat monitoring in Golden Gate for GL validation
* Implemented and enforces security for all Oracle Databases.

*May 2010 – Oct 2010*: **Indus Corporation** (Vendor: DEPARTMENT OF JUSTICE)

***DATABASE / SYSTEMS ENGINEER***

* Responsible for Configuring RMAN and performing backup and recovery processes
* Performed the installation and configuration of both Oracle and SQL Server Databases
* Responsible for Oracle RAC implementation Data Guard setup, tuning, and failover
* Developed cron tab jobs for Weblogic log file archiving.
* Provided System Administration and maintenance support on Linux enterprise system.
* Worked with Weblogic Application servers to install, configure, troubleshoot, backup and restore.
* Performed daily incremental and weekly full backups using VERITAS NetBackup and Backup Exec
* Responsible for performing all IT systems validation (FISMA Controls)
* Performed Security risk assessments in accordance with federal guidance in NIST (800-30,800-53)
* Developed and revise security plans, plans of action and milestones (POA&M), and artifacts
* Assisted in updating Information Security Policy (ISP) and Systems Security Plan (SSP)
* Administer database instances, Oracle RAC databases and ASM.
* Responsible for Using SRVCTL to administer Oracle RAC instances, databases, services, and so on
* Administered and support large multi TB production databases in Unix and linux environments
* Played a key role in ensuring the availability, performance and security of the databases
* Managed Data Guard environment for high availability, data protection, and disaster recovery
* Provided Database technical support for Oracle and SAP instances, analysis and design.

*Dec. 2007 – April 2010*: **Lockheed Martin Inc**. (Vendor: DEPARTMENT OF LABOR – BLS)

***ORACLE DBA / SYSTEM ADMINISTRATOR***

* Created and maintained all databases required for development, testing and production purposes.
* Responsible for creating and managing high availability environment using Oracle RAC, Data Guard, 10g Grid, RMAN, Flashback Query, ASM, OEM, Configuration and Provisioning Pack.
* Performed daily incremental and weekly full backups using VERITAS NetBackup and Legato
* Provided Linux/Unix systems administration support on Oracle server environment
* Set up WebLogic domain with a single Server instance for developers on their windows machines.
* Responsible for installation and configuration of Weblogic Servers and Identity Management software
* Responsible for monitoring and tuning performance in Oracle RAC
* Responsible for Configuring Recovery Manager and performing backup and recovery processes
* Installed, configured and administered Oracle products such as RDBMS, RAC, Grid Control
* Worked with management to assist in implementing and enforcing security policies.
* Planned and implemented backup and recovery of the Oracle database.
* Responsible for Patching and Maintenance of Oracle Application Environments.

*April 2007- Dec. 2007*: **COMCAST COMMMUNICATIONS**, WHITEMARSH, MD. USA

***DATABASE/ LINUX SYSTEM ADMINISTRATOR***

* Responsible for the upgrade of Oracle products and databases to latest release
* Responsible for System performance monitoring and troubleshooting
* Maintained Linux shell scripts on performance monitoring and system maintenance
* Installed new versions of the Oracle RDBMS and its tools, upgrade to newer versions
* Responsible for Database installation, upgrade, patch, configuration, backup and maintenance
* Provided Database support for critical applications in production and non-prod. environments
* Monitored all database environments by providing 24x7 rotation supports and as needed
* Developed documentation to support ongoing database development, change control, production
* Maintenances and DBA tasks. Provided configuration management, inventory management, fault management, and trouble management support on already established servers.
* Assist with database migrations, disaster recovery scenarios, and server upgrades
* Implemented physical database changes, performance tuning on Oracle partitioned environment
* Implemented best practices utilizing Oracle database technologies and implementations.

*Sept.2003 – Sept. 2006*: **DEBIS COMPUTERS LTD. (VENDOR: CENTRAL BANK OF NIGERIA)**

**SYSTEM ENGINEER**

* Responsible for administration, configuration, troubleshooting and support of server environments running under various Operating Systems including Solaris, Linux and AIX.
* Responsible for Unix Systems administration, configuration, troubleshooting, upgrades and support in heterogeneous server environments running under various Operating Systems including Red Hat Linux, Oracle (Sun) Solaris.
* Responsible for installing, configuring and maintaining IBM p Series, x86 and SPARC Servers including virtualized servers.
* Perform regular day-to-day Systems Administration activities such as User Administrations, Disk Management, Package Install, Patch Management, Storage Management, NFS Administration and disaster recovery/fail-over exercises.
* Responsible for MPIO/DMP configuration for SAN disks using native OS or third party EMC Power path, VERITAS MPIO drivers on Linux and Solaris Servers.
* Performed tasks involving complex batch job schedules and multiple priorities and action plans.
* Provided Administration and maintenance support on Linux enterprise system and other servers
* Troubleshoot VPN and RAS configuration and connectivity problems for remote users.
* Performed back up, file replications and script management for all servers