**KALYAN** **CHAKRAVARTHY**  

**KOMMALAPATI**

**Senior Cloud DevOps Engineer**

**PROFESSIONAL SUMMARY**

More than 15 years of experience in IT industry as Cloud and DevOps Engineer with 6 years of professional experience in Azure and AWS cloud services and 9 years of experience as EPM Financial Planning Administrator, Linux Administrator.

**Kubernetes Infrastructure:**

* Design, deploy, and maintain Kubernetes clusters in various environments (on-premises, cloud, hybrid) to support containerized applications.
* Configure and manage Kubernetes resources, including pods, services, deployments, and namespaces.

**CI/CD Pipeline:**

* Develop and maintain CI/CD pipelines using tools like Jenkins, GitLab CI/CD, GitHub Actions, AWS Code Build, AWS Code Pipeline to automate the build, test, and deployment processes.
* Integrate Kubernetes deployments into the CI/CD workflow for continuous delivery.

**Containerization:**

* Containerize applications using Docker and create Docker images for deployment.
* Manage container repositories and registries.

**Infrastructure as Code (IaC):**

* Utilize IaC tools such as Terraform, Ansible to automate the provisioning and management of infrastructure components

**DevOps Practices:**

* Champion DevOps best practices, including collaboration between development and operations teams, to streamline workflows and improve deployment efficiency.
* Implement version control strategies and best practices to ensure code and configuration consistency.

**Monitoring and Logging:**

* Set up monitoring and alerting systems (e.g., Prometheus, Grafana) for Kubernetes clusters and applications.
* Implement centralized logging solutions (e.g., ELK stack) for effective troubleshooting and analysis.

**Security and Compliance:**

* Implement and advocate for security best practices for Kubernetes and containerized environments, including RBAC, network policies, and image scanning.
* Ensure compliance with industry regulations and security standards.

**Scalability and Performance:**

* Optimize Kubernetes clusters for performance, scalability, and resource utilization.
* Troubleshoot and resolve performance-related issues.

**Documentation:**

* Document DevOps and Kubernetes processes, best practices, and procedures.
* Maintain up-to-date documentation for the entire DevOps and Kubernetes infrastructure.

**Stay Current:**

* Stay updated with the latest Kubernetes and DevOps trends, tools, and best practices.
* Evaluate and recommend new technologies to enhance the DevOps ecosystem.
* Proficiency in scripting and automation languages (e.g., Python, Bash) for creating custom automation scripts and tooling.
* Strong problem-solving skills and the ability to troubleshoot complex issues in a DevOps context.
* Excellent communication and collaboration skills, with the ability to work effectively with cross-functional teams and stakeholders.

**TECHNICAL SKILLS**

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| **Cloud Platforms** | AWS, Azure |
| **Configuration Management Tools** | Ansible, Chef, Puppet |
| **CI /CD Tools** | Jenkins, Bamboo, GitLab Pipelines, GitHub Actions |
| **Build Tools** | Maven, ANT |
| **Automation** | Terraform, CFT, ARM Templates |
| **Containerization Tools** | Docker, Docker Swarm, Kubernetes, Mesos, OpenShift, Aws ECS. |
| **Version Control Tools** | GIT, GITHUB, GITLAB, Bitbucket, SVN |
| **Logging / Monitoring Tools** | Nagios, Splunk, ITRS Geneos, ELK, CloudWatch, Azure Monitor, Prometheus, New Relic, Grafana. |
| **Scripting / Programming Languages** | Shell Scripting, RUBY, C, C++, XML, PL/SQL, Java/J2EE, HTML, PERL, POWERSHELL, Python, Java/J2EE, .Net, Gradle, Groovy |
| **Databases** | My SQL, MS SQL, Oracle, Dynamo DB, Redshift, Cassandra, Mongo DB 7 SQL Server |
| **Application / Web Servers** | Web logic, Web sphere, Apache Tomcat, Nginx. |
| **Operating Systems** | UNIX, Linux, Windows, Solaris, CentOS, UBUNTU and RHEL. |
| **Virtualization Platforms** | VMware Workstation, Vagrant, VMware vSphere ESXi 5.x/4.X, ESX /3.x, Hyper-V |
| **Bug Tracking Tools** | JIRA, Bugzilla, Remedy, HP Quality Center, Mingle |
| **Repositories** | Antifactory, Nexus |
| **Web Technologies** | HTML, HTML5, CSS, Java Script, jQuery, Bootstrap, XML, JSON, XSD, XSL, XPATH, Word Press. |

**EDUCATION**

* Bachelors in Computer Science Engineering from IIH University, India.

**CERTIFICATIONS**

* Certified Azure Administrator Associate.
* Certified AWS Developer Associate.

**PROFESIONAL EXPERIENCE**

**Client: Credit Suisse, Houston, TX Jan 2023 – Till date**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* Help Build, scale, and secure application cloud infrastructure using tools like Terraform, Docker, and Kubernetes
* Created AWS infrastructure in setting up the build and deployment using terraform modules to have your Terraform Code DRY, creating multiple terraform modules to manage configuration, applications, services and automate installation process.
* Deployed a serverless architecture using AWS services such as API Gateway, Lambda, and DynamoDB, resulting in reduction in infrastructure costs and increase in application performance.
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS).
* Experience in setting up monitoring and alerting for Kubernetes cluster using open-source monitoring tools like Grafana and Prometheus.
* Created a centralized telemetry infrastructure spanning development (code commits, successful builds, unit testing, etc.), deployment pipelines (environment provisioning, functional test results, performance testing measurements, etc.) and user feedback.
* In work with development teams to build Continuous Integrations & Delivery pipeline, improving the full delivery pipeline to get faster time to market, lower failure rate of new releases and shorten lead time between fixes.
* Monitor and maintain infrastructure performance, capacity, and availability, providing 2nd and 3rd level support for the resolution of application and infrastructure-related incidents and problems.
* Managing and remediating on security threats and vulnerabilities, and applying all required security controls in accordance with policy
* Ensuring effective monitoring of services and applications, Identification, and mitigation of risks for services in production

**Environment:** AWS, Terraform, Kubernetes, Docker, Jenkins, Maven, Git, Python/Shell, Linux, ELK, New Relic, VMware, JIRA, web &application servers, Networking

**Client: Vodacom, Johannesburg, South Africa Dec 2021 – Dec 2022**

**Role: Sr. Cloud DevOps Engineer**

**Responsibilities:**

* Skilled Engineer with experience in implementing Kubernetes clusters for high traffic workloads, configuring Linux/Unix infrastructures, and optimizing containerized workload deployments for telecom client
* Involved in implementing a CI/CD pipeline for a Kubernetes-based microservices architecture, security policies for Kubernetes clusters and applications, achieving compliance with industry standards and passing multiple security audits
* Designed and implemented a Kubernetes-based monitoring and logging solution, providing real-time visibility into system performance and reducing mean time to resolution
* Good knowledge to create custom sized VPC, subnets, EC2 instances, ELB, security groups.
* Managed other AWS Services like S3, Cloud Front, Cloud Watch, RDS, Kinesis, Redshift Cluster, Route53, SNS, SQS, Cloud Trail.
* Experience in Blue-green deployments that reduces downtime and risk by running two identical production environments.
* Implemented AWS solutions using S3, RDS, EBS, Elastic Load Balancer, and Auto-scaling groups, Optimized volumes and EC2 instances and Using Jenkins AWS Code Deploy plugin to deploy to AWS.
* Created custom machine images and automation tools like Ansible using Terraform along with packer to install software's after the infrastructure is provisioned.
* Experience in setting up Baselines, Branching, Patches, Merging and Automation processes using Shell/bash.
* Deployment of ConfigMaps, Secrets and Volumes on Kubernetes
* Skilled in monitoring servers using Nagios, Data dog, Cloud watch and using ELK Stack Fluent Kibana.
* Experience working with GitHub and JIRA for version management and bug tracking or a Similar system.
* Implemented script to test Prometheus monitoring/alerting system on daily basis.
* Installation and configuration of bamboo, Installation, and configuration of Jira/Confluence
* Setup full CI/CD pipelines so that each commit a developer makes will go through standard process of software lifecycle and gets tested well enough before it can make it to the production.
* Used Ansible to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Responsible for log monitoring, auditing and enforcement of policies using New Relic Monitoring AWS Instances regularly using ops view and New Relic tools.
* Experience in administering and maintaining Linux servers in production environments. Supported in the installation of packages/patches on Linux platforms. Implemented Backup & Disaster recovery management on Linux platforms.

**Environment:** AWS, OpenStack, Terraform, Chef, Ansible, OpenShift, Kubernetes, Docker, Jenkins, Maven, Git, Python/Shell/Perl/Ruby/PHP Scripts, Linux, ELK, New Relic, VMware, Tomcat Apache, JIRA, web &application servers, Networking.

**Client: WesBank, Johannesburg, South Africa May 2016 – Nov 2021**

**Role: Azure DevOps Engineer**

**Responsibilities:**

* Created Pipeline’s to extract data from on premises source systems to azure cloud data lake storage; Extensively worked on copy activities and implemented the copy behavior’s such as flatten hierarchy, preserve hierarchy and Merge hierarchy. Implemented Error Handling concept through copy activity.
* Exposure on Azure Data Factory activities such as Lookups, Stored procedures, if condition, for each, Set Variable, Append Variable, Get Metadata, Filter and wait.
* Create dynamic pipeline to handle multiple source extracting to multiple targets; extensively used azure key vaults to configure the connections in linked services
* Configured and implemented the Azure Data Factory Triggers and scheduled the Pipelines; monitored the scheduled Azure Data Factory pipelines and configured the alerts to get notification of failure pipelines.
* Implemented delta logic extractions for various sources with the help of control table; implemented the Data Frameworks to handle the deadlocks, recovery, logging the data of pipelines.
* Reviewing individual work on ingesting data into azure data lake and provide feedbacks based on reference architecture, naming conventions, guidelines and best practices
* Developing Spark (Python) notebooks to transform and partition the data and organize files in ADLS
* Working on Azure Databricks to run Spark-Python Notebooks through ADF pipelines.
* Using Databricks utilities called widgets to pass parameters on run time from ADF to Databricks.
* Involved End-End logging frameworks for Data factory pipelines.
* Implemented delta logic extractions for various sources with the help of control table; implemented the Data Frameworks to handle the deadlocks, recovery, logging the data of pipelines.

**Environment:** Azure, Jenkins, Chef, Nagios, Java/J2EE, .NET GIT, GitHub, Bamboo, WebLogic, Docker, Nexus, Python, Bash, Chef Server, Tomcat, nginx, CentOS, Unix, JIRA, Sonar.

**Client: NTT DATA, Hyderabad, India Sep 2012 – Apr 2016**

**Role: Senior Principal Consultant**

**Responsibilities:**

* Provide end user support to assist with application in writing Essbase Calculation Scripts, Hyperion Planning Business Rules using Calc Manager.
* Maintain functionality and processing of all Hyperion Planning applications, FDM mapping and ODI management, including development and improvement of calculation scripts, load rules, web forms, batch scripts and metadata support
* Experience with financial analysis, budgeting & planning, automating & improving processes, various report & training material creations, strong excel & PowerPoint skills, Hyperion HFM and Planning Applications, Essbase, Smart view & Financial Reporting Studio
* Provide strong technical expertise to ensure production problems are resolved quickly, resulting in continued accurate system operations and business functions.
* Involved in Extraction, Loading, Transformation data to warehouse using E-LT (ODI 11g)
* Improve and optimize Hyperion Planning applications, including increasing level of automation, decreasing processing time and increasing level of accuracy and granularity of data
* Ensuring data accuracy and integrity in the Planning systems. This includes agreement of data to other systems. Reconciliation and (if necessary) correction of data are significant parts of the role
* Conducted end user training sessions to train users how to use the new budgeting process.
* Identify and resolve technical defects and issues with Hyperion Planning application, including escalation of issues to Oracle Support
* Setup, monitor, and close Hyperion Planning for each forecast, budget, and month-end/quarter-end cycle. Provide user support and trouble-shoot a wide variety of issues
* Responsible for conducting key migrations from Pre-Prod environments to the PROD environment
* Responsible for the health and availability of the Planning &Essbase PROD environment
* Provide First Point of Contact for User Community Queries and Change Initiatives.
* Strong communication, organizational and interpersonal competencies, adapt to change and quick in learning new versions and application

**Environment:** Hyperion system 11, Hyperion Essbase, Hyperion Financial Management (HFM), Excel Add-in, ESSCMD, MaxL, Hyperion Planning, ODI, FDQM, Essbase Studio, Smart View, OBIEE, Financial Reporting, Linux.

**Client: HCL Technologies, New Delhi**  **Jul 2010 – Aug 2012**

**Role: Associate Consultant**

**Responsibilities:**

* Excellent and detailed technical development exposure to planning and reporting tools - Oracle Hyperion Planning and/or Essbase. Provided technical expertise on overall architecture and strategy of the Hyperion Planning and Essbase environment.
* Performs system design and analysis, develops complex code and testing to ensure successful delivery of system functionality and application components
* Work closely with Project management on Financial Systems initiatives to provide guidance on business processes, business requirement gathering and other key functions in Finance.
* Support FP&A initiatives in the annual budget, quarterly and monthly refresh of monthly actuals for management reporting and presentation packages to executive management
* Validating the data in the SmartView between Source GL data and Hyperion data
* Create and maintain Weekly, Monthly and yearly maintenance processes to maintain the Environment and overall system health monitoring.
* Strong Knowledge in migration process of applications from one environment to another using shared services and other back-end techniques.

Advanced knowledge of Hyperion Planning and Essbase (business rules, integration, ASO, BSO, Calculation Scripts, Rules, MDX, Essbase Studio etc

**Environment:** Financial Reporting, Web Analysis, Hyperion Essbase, Hyperion Planning, Excel Add-in, ESSCMD, MaxL, Essbase Studio, Windows 2000.

**Client: LGS Global, Hyderabad, India Mar 2007– Jun 2010**

**Role: Linux Administrator**

**Responsibilities:**

* Managed and administrated of all UNIX servers, includes Linux operating systems by applying relative patches and packages at regular maintenance periods using Red Hat Satellite server.
* Prepare specs for new infrastructure and VMware servers, disk storage, and network switches, routers, firewalls, and VPN.
* Planned and performed the upgrades to Linux operating systems and hardware maintenance like changing memory modules, replacing disk drives.
* Handling NFS, Auto Mount, DNS, LDAP related issues. Install and configure DHCP, DNS (BIND, MS), web (Apache, IIS), mail (SMTP, IMAP, POP3), and file servers on Linux servers.
* Monitoring CPU, memory, physical disk, Hardware, and Software RAID, multipath, file systems, network using the monitoring tools.
* Deployment and Configuration of application server Tomcat deploying Java and Web Application.
* Writing Shell scripts for automation of daily tasks, documenting the changes that happen in the environment and in each server, analyzing the error logs, analyzing the User logs, analyzing the /var/log/messages.
* Design, build, and maintain production servers and RAID storage system.

**Environment:** UNIX, RedHat Satellite Server, NFS, Auto Mount, DNS, Tomcat, Java, RDBMS.