**A close up of a sign

Description automatically generatedA white hexagon with black text and grey and white text

Description automatically generatedA close up of a sign

Description automatically generatedM. VINEETH KUMAR**

**Sr. Cloud / DevOps Engineer**

**Professional Summary**

Sr. Cloud & DevOps professional with around 9+ Years of experience in the IT industry comprising Cloud Management, dedicated to automation and optimization. Has experience with Cloud Solutions, build and release management, version control, continuous integration, continuous deployment, and Linux system administration, as well as DevOps automation development for Linux systems

* + - * A seasoned Cloud professional with a deep understanding of cloud technologies, infrastructure, and best practices, dedicated to optimizing and enhancing business operations through innovative cloud solutions on the AWS, GCP, and Azure cloud platforms.
* Skilled in implementing Infrastructure as Code (IAC) using tools like AWS CloudFormation and Terraform, enabling repeatable and automated deployments.
* Professional AWS security practices, including IAM roles, policies, and VPC configurations to ensure data privacy and compliance and in setting up CI/CD pipelines using AWS CodePipeline and CodeDeploy for seamless application delivery.
* Have extensive experience building, implementing, and maintaining sophisticated cloud applications using Azure services. I am a tremendous asset in facilitating successful Azure migrations and transformations because of my knowledge of cloud infrastructure, application architecture, DevOps techniques, security, and data analytics.
* Proficient in designing Azure infrastructure components, including virtual networks, subnets, NSGs, AKS, and VPN gateways, to ensure secure and scalable environments.
* Proficiency in integrating Azure services, such as Azure Active Directory, Azure SQL Database, Azure Storage, and Azure Functions, to create comprehensive cloud solutions.
* Specialized in OpenShift orchestration and containerization with a proven track record of architecting and implementing robust CI/CD pipelines, automating infrastructure provisioning, and optimizing deployments for complex applications.
* Experienced in designing Virtual Private Clouds (VPCs) to isolate resources, define subnets, and implement firewall rules for secure and controlled networking within GCP.
* Skilled in utilizing Google Kubernetes Engine (GKE) to manage and orchestrate containerized applications, ensuring seamless scaling, automated deployments, and efficient resource utilization.
* Proficient in Kubernetes and OpenShift ecosystems, driving efficiency, scalability, and security through innovative DevOps practices. Skilled in cloud integration, automation, monitoring, and fostering cross-functional collaboration.
* Proven track record of streamlining deployment workflows, enhancing collaboration between development and operations teams, and driving efficient cloud environments through Terraforms declarative approach.
* Extensive Expertise in containerization technologies, utilizing Docker to package applications and provide consistent deployment environments. Moreover, my proficiency in managing container orchestration platforms like Kubernetes, Docker Swarm, AKS, and Amazon ECS allows me to efficiently scale and manage containerized applications for seamless scalability and high.
* Skilled in Docker containerization, orchestrating and scaling applications with Kubernetes, and automating CI/CD pipelines for seamless deployment and integration.
* Proficient in designing, deploying, and scaling Kubernetes clusters and Orchestration to ensure efficient resource utilization and seamless application delivery.
* Expert in orchestrating cloud migrations, encompassing AWS, Azure, and GCP, to deliver scalable, resilient, and cost-effective solutions.
* Proficient in managing applications on Kubernetes, with experience in on-premise deployments.
* Strong focus on ensuring high availability and performance of critical applications.
* Experience working alongside senior engineers and architects, contributing to strategic technical decisions.
* Capable of developing and maintaining support documentation and procedures.
* Skilled in managing automated CI/CD pipelines, enhancing deployment efficiency.
* Technical Troubleshooting: Adept at identifying and resolving technical issues in complex environments
* Innovative GitLab professional with a proven track record of elevating collaboration and efficiency through version control and CI/CD automation. Adept at leveraging GitLab's comprehensive features to drive seamless development workflows and deliver exceptional results.
* Experienced in leveraging a wide range of DevSecOps security tools and technologies to seamlessly integrate security into the software development lifecycle.
* Proficient in leveraging a diverse range of monitoring tools, including Prometheus, Splunk, Grafana, and ELK Stack, to provide real-time insights, proactive issue detection, and continuous improvement.
* Hands-on experience crafting complex automation scripts using Python, Bash, and PowerShell, harnessing their power to streamline deployment, configuration management, and infrastructure provisioning. Proficient in the scripting languages Shell, Ruby, and Perl for Jenkins, GitLab CI/CD, and Ansible for comprehensive automation.
* Excellent knowledge of YAML files for Ansible playbooks, AWS Cloud Formation Templates, and Ruby for Chef cookbooks and recipes for provisioning Infrastructure as Code (IaaC).
* Proficiency in Linux Kernel performance management and optimization work. Built environments utilizing TCP/IP, NIS.
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**Technical skills**

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| --- | --- |
| Cloud Environments | Amazon Web Services (AWS), Azure, Google Cloud platform |
| Configuration Management  Tools | Chef, Puppet, Ansible, Terraform, Saltstack, AWS cloud formation, Azure Resource Manager Templates. |
| Containerization Tools | Kubernetes, Docker, OpenShift, Docker compose, Podman, Nomad, Amazon ECS,  Google Kubernetes Engine, Azure Kubernetes service, Rancher, Portainer. |
| Version Control Tools | SVN, GIT, GIT-Hub, Bitbucket, Gitlab, Mercurial, Subversion. |
| CI-CD Tools | ANT, MAVEN, Gradle, AWS code build, circle CI, Travis CI, GitLab CI/CD, Jenkins, Team City, Bamboo, Azure DevOps, Make. |
| Web Servers | Apache Tomcat, Web Sphere, Nginx, Microsoft internet information service(IIS), Apache HTTP server. |
| Bug Tracking Tools | JIRA, Bugzilla, Remedy, Bugzilla, Trello, Gitlab issues, Redmine. |
| Monitoring Tools | Splunk, Dynatrace, New Relic, Zabbix, ELK, Datadog, Nagios, Grafana, Prometheus, Zabbix, App Dynamics, Graylog. |
| Databases | Aurora, DynamoDB, RDS, MySQL, MongoDB, SQL Server, MS SQL, Cassandra DB |
| Virtualization Tools | VMWare ESX/ESXi, Windows Hyper-V, Virtual box, Vagrant |
| Testing Tools | Selenium, JUnit, Cucumber, Jenkins, Selenium, JUnit, Cucumber, SonarQube, TestNG. |
| Scripting Languages | Ruby, Perl, Python, Bash shell, PowerShell, Groovy, YAML. |
| Web Technologies | HTML, CSS, JavaScript, jQuery, Bootstrap, XML |
| Operating Servers | Red Hat, Ubuntu, Linux, Windows, CentOS, Debian, Mac OS. |
| Network Protocols | TCP/IP, DHCP, DNS, SNMP, SMTP, Ethernet, NFS. |

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**Professional Experience**

**CLIENT: LOWES SEP 2022 - PRESENT**

**Lowe's Charlotte Technology Hub**

**Sr AWS Cloud Engineer**

**Responsibilities:**

* Utilizing AWS for hosting and migrating an e-commerce platform from AWS to GCP while modernizing the architecture for improved scalability, fault tolerance, and automation including web servers, databases, and content delivery, to ensure a seamless online shopping experience.
* Implemented IaC using Terraform to automate Redshift cluster provisioning and scaling, reducing manual intervention.
* Developed and maintained automated deployment pipelines using Jenkins for continuous integration and delivery of healthcare applications, ensuring fast and reliable software releases.
* Implemented automated monitoring and alerting solutions using tools like Prometheus and Grafana to ensure the health and performance of Kafka clusters, enabling proactive issue detection and resolution.
* Integrated Lambda functions with other AWS services such as S3, DynamoDB, and RDS to build end-to-end data processing workflows in healthcare applications.
* Conducted root-cause analysis for service interruptions, identifying underlying issues and implementing effective resolutions to minimize downtime.
* Supported the DERMS application on an on-premise Kubernetes platform, ensuring consistent system uptime and reliability.
* Managed and maintained automated pipelines, streamlining deployment and integration processes.
* Collaborated closely with senior engineers and senior architects to align support strategies with overall technical direction and architectural standards.
* Monitored application performance and implemented proactive measures to address potential issues, minimizing downtime and maintaining service quality.
* Troubleshot and resolved technical issues related to the DERMS application, Kubernetes platform, and associated infrastructure.
* Implemented CI/CD pipelines for Big Data projects, integrating tools like Jenkins or GitLab CI/CD to automate build, test, and deployment processes, accelerating time-to-market and improving overall software quality.
* Established robust monitoring solutions for Big Data clusters using tools like Prometheus, Grafana, or ELK stack, enabling proactive detection of performance issues and timely response to incidents.
* Enhanced documentation standards to align with industry best practices and compliance requirements.
* Infrastructure provisioning on GCP using Terraform templates, enabling the creation and management of scalable and reproducible Google Cloud resources.
* Implemented and managed monitoring infrastructure on GCP, utilizing tools such as Google Cloud Monitoring to oversee various application servers, ensuring high availability and performance.
* Integrated GCP services, including Kubernetes Engine and Google Kubernetes clusters, into the existing DevOps workflow, ensuring seamless deployment and management of applications.
* Conducted regular performance analysis using Datadog, leading to infrastructure optimizations and cost savings.
* Creating multi-cloud environment spanning AWS and other cloud providers, designed unified monitoring and orchestration solution by creating API-driven workflows for provisioning and management.
* Implementing SNMP proficiency ensures seamless integration with legacy systems, while Logic-Monitor provides a centralized, cloud-agnostic view of infrastructure health and performance across all cloud platforms.
* Worked on scripting using Python and Windows/Unix commands, enhancing automation and efficiency in daily tasks.
* Integrated IaC pipelines into CI/CD workflows, ensuring consistent and reliable deployments.
* Managing and Monitoring Kubernetes clusters using Prometheus as a data aggregator and Grafana as a data visualization platform.

**Environment**: AWS, GCP, Grafana, Prometheus, Jenkins, alert manager, Docker, Kubernetes, GitHub, Jenkins, Yaml.

**CLIENT: PILOT COMPANY**

**Knoxville, TN JAN 2022 – AUG 2022**

**DevOps Engineer**

**Responsibilities:**

* Migrating Services from On-premise to Azure Cloud Environments. Collaborate with development and QA teams to maintain high-quality deployment.
* Worked with Terraform Templates to automate the Azure Iaas virtual machines using Terraform modules and deployed virtual machine scale sets in the production environment.
* Used Ansible and Ansible Tower as Configuration management tool to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Conducted routine maintenance and updates to ensure the DERMS application and Kubernetes environment remained secure and up-to-date.
* Assisted in the development and enhancement of support procedures and documentation, contributing to continuous improvement initiatives.
* Utilized strong execution skills to manage and prioritize multiple tasks, ensuring timely and effective support for the DERMS application.
* Participated in on-call rotations, providing timely responses and resolutions to critical incidents and outages.
* Collaborated with cross-functional teams to ensure seamless integration and compatibility of the DERMS application with other systems and services.
* Integrated Datadog monitoring solutions to provide real-time insights into AWS data infrastructure, enabling proactive identification and resolution of performance bottlenecks.
* Developed an automated deployment tool for dev, UAT, and production environments using Ansible. Allows new services to be deployed and released simply by developers, including an Ansible playbook.
* Used Kubernetes to manage containerized applications using its nodes, Config Maps, selector, Services & deployed application containers as Pods.
* Making deployments of Microservices as containers using containerization tools like Docker and Docker Compose. Docker Swarm and Kubernetes for orchestration and Microsoft Azure to ensure continuous deployments into the different environments.
* Managed Kubernetes charts using Helm, Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files, and Managed releases of Helm packages.
* Created additional Docker Slave Nodes for Jenkins using custom Docker Images and Worked on all major components of Docker like Docker Daemon, Hub, Images, Registry, Swarm, etc.
* Built end-to-end CI/CD Pipelines in Jenkins to retrieve code, compile applications, perform tests and push build artifacts to Nexus and UDeploy to orchestrate changes across servers and components.
* Implemented branching & tagging strategy to maintain the source code in the GIT repository. Coordinated with developers to establish and apply appropriate branching, labelling/naming conventions using GIT source control.
* Responsible for Setup and integrated Prometheus with Grafana for Monitoring. Used Elasticsearch (ELK stack) for centralized logging and analytics in the continuous delivery pipeline to store logs and metrics in Azure storage using the storage function.
* Utilized Datadog Log Tracing to identify and resolve critical issues in real-time, ensuring optimal application reliability in an Azure environment.
* Collaborated with cross-functional teams to integrate Datadog monitoring solutions seamlessly into Azure-based workflows.
* Extract Transform and Load data from Sources Systems to Azure Data Storage services using a combination of AzureData Factory, T-SQL, Spark SQL, and U-SQL Azure Data Lake Analytics. Data Ingestion to one or more Azure Services-(Azure Data Lake, Azure Storage, Azure SQL, Azure DW) and processing the data in In Azure Databricks.
* Involved in setting up Azure Functions to execute a PowerShell script that regularly backs up data from one region to another. Provided data redundancy and backup files from an Azure Storage container to a different location.
* Setting up Nginx, HTTP web server as a reverse proxy to critical applications such as Jira, Jenkins, and Application Server.

Environment: Azure, GCP, Office 365, Terraform, Maven, Jenkins, Ansible, Docker, Kubernetes, Git, PowerShell, Apache-Tomcat server, Jira, AEM, RHEL, ELK, PowerShell script, Python, Mac OS.

**CLIENT: FIDELITY INVESTMENTS**

**Boston, MA OCT 2016– DEC 2021**

**Site Reliability Engineer**

* Worked on Azure Cloud Services (PaaS & IaaS), Storage, Web Apps, Active Directory, Application Insights, Logic Apps, Data Factory, Service Bus, Traffic Manager, Azure Monitoring, OMS, Key Vault, Visual Studio Online (VSO), Cognitive Services (LUIS) and SQL Azure.
* Configure Azure Virtual Networks, Azure network settings, Subnets DHCP address Blocks, DNS settings, security policies, and routing.
* Using the GIT repository for storing Terraform files and maintaining versioning.
* Proficient in managing and optimizing Databricks clusters for big data processing and analytics, ensuring high performance and efficient resource utilization.
* Scheduled and orchestrated data processing jobs in Databricks to automate ETL pipelines and analytical
* Automated infrastructure activities like Continuous Deployment, Application Server setup, and Stack monitoring using Ansible playbooks and Integrated Ansible.
* Documented IaC processes, best practices, and deployment strategies for knowledge sharing.
* Created and managed a Docker deployment pipeline for custom application images in the Cloud using Jenkins, working on the Docker hub, creating Docker images, and handling multiple images primarily.
* Worked on Docker compose to schedule multiple containers and written compose .yml files to configure and scale numerous application services.
* Created Docker images using a Docker file, worked on container snapshots, removed images, and managed Docker volumes.
* Deployed Kubernetes Cluster on cloud/on-premises environments with master/minion architecture and wrote many YAML files to create many services like pods, deployments, auto-scaling, load balancers, labels, health checks, Namespaces, and Config Msap.
* Deployed Kubernetes container application using Azure Kubernetes Service (AKS), ACS, Azure CLI, Azure Active Directory, Azure Virtual Network, Azure Storage, and Azure Database for MySQL.
* Created a private cloud using Kubernetes that supports DEV, TEST, and PROD environments.
* Wrote Groovy scripts to set up job DSL within Jenkins, develop Jenkins Pipeline jobs, and set up upstream and downstream projects.
* Shell/Python and PowerShell scripts for automated deployments on Windows environments.
* Responsibilities included managing and creating Apache Tomcat environments on Linux servers and Windows platforms.
* Used Python scripts to update content in the database and manipulate files. Automated Email process, downloading and uploading the files through Perl Scripting.
* Coordinated and planed with Database teams on Mongo dB capacity planning for new applications.

**Environment**: Azure, Jira, LDAP, Docker DNS, Python, Shell scripting, Nginx, Apache, WebSphere, Terraform, MongoDB, Disk suite, Jenkins, Load Balancing, Red Hat Linux 6/7, UNIX/Solaris 8, SVN, GIT, Ansible Kubernetes, Containers, CI/CD pipeline.

**CLIENT: MAROLIX MAY 2015 – JUNE 2016**

**Hyderabad, India**

**DevSecOps Engineer**

**Responsibilities:**

* Implemented and maintained an on-premises SAST tool Checkmarx, Fortify within the organization's infrastructure. Developed custom rules and configurations to tailor the tool to the specific software development environment.
* Integrated the SAST scans into the CI/CD pipeline to identify and remediate security vulnerabilities early in the development process.
* Setting up an on-premises SCA solution like Sonatype Nexus Lifecycle to identify and track open-source software components and their vulnerabilities.
* Integrated the SCA tool into the CI/CD pipeline to automatically scan and generate reports on third-party dependencies, enabling teams to address vulnerabilities promptly.
* Implemented and managed security controls in AWS environments to protect against various security threats.
* Developed and maintained secure Terraform infrastructure as code templates, automating security checks and compliance enforcement.
* Hardened and secured Kubernetes clusters, implementing network policies, RBAC, and security contexts.
* Ensured compliance with industry standards and regulations, actively participating in security audits and assessments.
* Orchestrated the integration of security tools and tests (SAST, DAST, SCA) into the CI/CD pipeline, using on-premises CI/CD tools such as Jenkins and Bamboo. Ensured that security checks were automated and provided feedback to developers in real-time.
* Leveraged scripting languages such as PowerShell, Python, Bash, or tools like Postman to automate security tasks, streamline processes, and enhance the efficiency of security operations.
* Integrated container security scanning into the CI/CD pipeline to prevent the deployment of insecure containers.
* Automated Datadog Dashboards and assisted internal users for Splunk in designing and maintaining production-quality dashboards.
* Worked with Nagios for Windows Active Directory & LDAP and Data consolidation for LDAP users. Monitored system performance using Nagios, maintained Nagios servers, and added new services & servers.

**Environment**: AWS, OpenStack, OpenShift, Git, Maven, Jenkins, Linux, Jira, Chef, Ansible, Docker, Splunk, Python, EC2, S3, EBS, ELB, Opswork, Nexus, Bash, Unix/Linux, Nagios, Datadog. Mac OS.

**CLIENT: RESOURCE SOLUTIONS MAY 2014– APRIL 2015**

**HYDERABAD, INDIA**

**Site Reliability Engineer**

**Responsibilities:**

* Administered Bamboo servers which included installing, upgrading, backup, adding users, creating plans, establishing the local/remote agent, adding capabilities, performance tuning, troubleshooting issues, and maintenance.
* Setting up continuous integration and formal builds using Bamboo with the Artifactory repository and Resolving update, merge, and password authentication issues in Bamboo and JIRA.
* Developed Puppet modules and manifests to automate critical cluster deployment, configuration, and lifecycle management. Wrote Puppet manifests for configuration management and deployed .Net and Java applications.
* Implemented continuous integration using Jenkins master and slave configuration. Configured security to Jenkins and added multiple nodes for continuous deployment.
* Developed Maven build scripts for maintaining test automation, makes & Java based library to read test data from XML & Properties files using Junit and loading it into Selenium.
* Initiated responsibility for administering the SVN servers, which included installing, upgrading, backup, adding users, creating repositories/branches, merging, writing hooks scripts, performance tuning, troubleshooting issues, and maintenance. Implemented a GIT mirror for the r SVN repository, which enables users to use both SVN and GIT.
* Configured and maintained the Shell/Perl deployment scripts for Web logic and UNIX server, analysed the Maven Build projects for conversion.
* Migrated other ticket management tools to Jira server version and Migrated h2/postgres/oracle DB to MySQL database for Jira/Confluence server.
* Deployed Java Enterprise applications to Apache Tomcat, Web Server, and JBoss Application server.
* In the production environment, implemented and configured Nagios for continuous monitoring of applications and enabled notifications via emails and text messages.
* Involved in Building and configuring Red Hat Linux Servers using Kick Start server as required for the project. Maintained maximum uptime and performance capacity for enterprise production, QA, and UAT/staging.

**Environment**: CVS, SVN, Bamboo, Tomcat, Red Hat Enterprise Linux, Centos, Maven, Shell/Perl Scripting, ANT, Splunk, Puppet, Ngnix.