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**Sr. Cloud DevOps Engineer**

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**Professional Summary:**

* With around **8 years of experience in the IT industry**, possessing the capability to successfully handle all aspects of the software configuration management **(SCM) process, Cloud computing, DevOps practices, Systems management, and Build/Release management.**
* Experienced in utilizing various Azure Services like **Virtual Machines (VM’s), Active Directory, Web Roles, Worker Roles, Azure Websites, Azure SQL, Storage, Azure Virtual Network (VNet), Azure Active Directory, API Management, Load Balancing, Auto Scaling, and PowerShell Automation.**
* Experienced in configuring and deploying Azure Automation scripts for applications utilizing the Azure services that including compute, blobs, **Azure Data Factory (ADF), Azure Data Lake, Azure SQL, Azure Kubernetes service (AKS) and ARM templates** and utilities focusing on Automation.
* Experienced in setting up database instances **in Amazon Web Services (AWS) using RDS, DynamoDB, storage using S3 bucke**t and configuring instance backups and archives to **Amazon Glacier archives, and configured AWS Redshift for Data Warehousing.**
* Discussed with the team of Infrastructure Engineers, regarding **Terraform** templates in provisioning the **AWS** resources such as **EMR clusters, S3, ECS** etc.
* Experienced in **Google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager**.
* Expertise in Cloud Infrastructure Automation which includes **Amazon Web Services (AWS), Ansible, Maven, Docker, Jenkins, Harness, Terraform, GitHub, AppDynamics, Nessus, Tomcat, and LINUX** etc.
* Expertise in writing **Bash Scripts, Pearl Scripts and Python programming** for deployment

of Java applications on bare servers or Middleware tools Auto generate of **Terraform** templates with **YAML/Python** modules and provisioning **AWS** services.

* Proficient in leveraging cutting-edge DevOps tools and technologies, including **Harness**, to drive efficient and reliable software delivery. Dedicated to staying at the forefront of DevOps best practices and leveraging **Harness** to streamline deployment processes and ensure cross-functional team success.
* Expertise in Docker based container deployments to create shelf environments for dev teams and cluster management using **Docker Swarm and Kubernetes, Cosmos.**
* Experience in creating pods and clusters in **Kubernetes** and deploy those using **OpenShift**. Good understanding of **OpenShift** platform in managing **Docker** containers and **Kubernetes** Clusters.
* Experience in working over **Apache Spark, Apache Kafka, Cassandra** under the environment of Apache Mesos. Also used Apache Oozie and Airflow.
* Experienced in migrating an On - premises Instances or **Azure Classic Instances to Azure ARM Subscription with Azure Site Recovery.** Used **Log Analytics service in Azure OMS** to monitor cloud environments to maintain their availability and performance. Working on **Azure** for highly available customer facing **B2B and B2C applications.**
* Experience in Implementing a **Continuous Delivery framework using Jenkins, Maven, Cosmos, and Nexus in Linux environment.**
* Integrated **Jenkins CI with GIT version control** and implemented continuous build based on check-in for various cross functional applications and created **GitHub Webhooks** to set up triggers for commit, push, merge and pull request events.
* Worked with **Kafka** Admin team to set up **Kafka** cluster setup on the QA and Production environments and implemented to reprocess the failure messages in **Kafka** using offset id.
* Experienced in **Ansible Tower**, which provides an easy-to-use dashboard and role-based access control and in developing Ansible playbooks for managing the application/OS configuration files in **GitHub,** integrating with **Jenkins,** and verifying with **Jenkins plugins,** deploying the application in **Linux environment.**
* Used **Google Cloud Platform (GCP)** Services Like Compute Engine, Cloud Functions, Cloud DNS, Cloud Storage and Cloud Deployment Manager and SaaS, PaaS and IaaS concepts of Cloud computing architecture and Implementation using **GCP**.
* Configured applications that run multi-container **Docker** applications by utilizing the **Docker-Compose** tool which uses a file configured in **YAML** format.
* Experience using **MAVEN** and **ANT** build tools for building deployable artifacts (jar, war & ear) from source code. Automated weekly releases with **ANT/MAVEN scripting** for Compiling java code dubbing.
* Configured network and server monitoring using **ELK** Stack with **Log spout** and **Nagios** for notifications.
* Experience in installing, configuring, managing **MYSQL, SQL Server, PostgreSQL, Oracle, MongoDB & Cassandra**. Used **Kibana, Splunk, AppDynamics,** **Grafana** for developing dashboards and monitoring the live dataflow.
* Extensively used **Ruby scripting on Chef Automation** for creating cookbooks comprising all resources, Expertise in setting up Baselines, Branching, Patches, Merging and Automation processes using **Shell/Bash and Batch Scripts.**
* Proficiently utilized monitoring tools like **Prometheus, Dynatrace, and Splunk** to proactively identify and mitigate potential issues, ensuring optimal system performance and reliability.
* Experience in installing and administering **Nexus** as Repository Manager for Builds and has knowledge on **JFrog** Artifactory Repository manager.
* Develop best practices and processes **Agile scrum methodology**, **JIRA program Management [JIRA scrum], JIRA dashboard customization, JIRA release management, JIRA test management, JIRA training.**

**EDUCATION:**

* Master’s in Computer Science, Auburn University at Montgomery, Alabama, USA.

**TECHNICAL SKILLS:**

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| Cloud Environment | Amazon Web Services (AWS), Azure, Google Cloud Platform (GCP) |
| Platforms | C, C++, C#, Java/J2EE |
| Scripting | Shell, Python, Ruby, PowerShell, YAML, Groovy, Bash |
| Containerization | Kubernetes, OpenShift |
| Version Control Tools | SVN (Subversion), GIT, CVS, GitLab, GitHub, Bitbucket |
| Build Tools | Ant, Maven |
| Configuration Management | Chef, Puppet, Ansible |
| Continuous Integration Tools | Jenkins, UDeploy, GitHub Actions |
| Continuous Deployment Tools | Jenkins, Harness |
| Ticketing Tools | JIRA, Bugzilla and Confluence |
| Monitoring Tools | Nagios, Splunk, Cloud Watch, ELK Stack |
| Artifactory Repositories | Nexus, JFrog |
| Methodologies | Agile, Scrum, Waterfall |
| Operating Systems | Unix/Linux (Red Hat, CentOS, SUSE), Solaris, Ubuntu, Windows 2008, 2012 Server, XP, Vista |
| Databases | Oracle, MS SQL Server, MySQL, DynamoDB, MongoDB, NoSQL, PostgreSQL |
| Virtualization | Virtual Box, VMWare, Windows Hyper-V |

**Professional Experience:  
  
Client: USAA, Plano, TX  
Dates: Feb 2023 - Present  
Role: Sr. Cloud DevOps Engineer**

**Responsibilities:**

* Experience working on **Azure cloud services, Azure storage, Azure CLI, Azure Active Directory, Cosmos and Azure service Bus.**
* Experience in architecting **Azure IaaS, Azure Hybrid identity, Azure Governance, Azure web jobs, Azure search.** Installed and deployed **Kafka, Zookeeper, ELK**, and **Grafana** using **Ansible** playbooks.
* Working with **AWS** services such as **EC2, VPC, RDS, CloudWatch, CloudFront, Route53** etc.
* Implemented technical solutions in building CICD pipeline using **AWS CodeCommit,CodeDeploy, CodePipeline, EC2, VPC, IAM, S3 and enabling the automation for platform specific applications using Terraform.** Using **CICD** tools like **Harness** for smart automation for continuous delivery.
* Collaborated in developing **C# and ASP.NET** applications for backend operations. Implemented **RESTful APIs** and managed asynchronous programming for seamless integration.
* Applied **object-oriented design** **techniques** and **n-tier application** design principles.
* Creating **S3 buckets** and managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on **AWS.**
* Maintained private/public cloud applications written in **JavaScript**, batch jobs, and use tools like **DataDog** and **Splunk** to grow and improve application monitoring and alerting.
* Setup **Datadog** monitoring across different servers and **AWS** services. Created **Data Dog** Dashboards for various **data dog** tools and alerted application. Integrated **Datadog, Splunk Dashboard with AWS accounts.**
* Created test **Harness** to enable comprehensive testing utilizing **Python**. Design and implement streaming solutions using **Kafka** or **Azure** Stream Analytics.
* Created **Azure SQL database**, performed monitoring and restoring of **Azure SQL database**. Performed migration of **Microsoft SQL server** to **Azure SQL database**.
* Using **Terraform** to automate the deployment process onto azure. Implemented Git mirror for SVN repository, which enables users to use both **Git and SVN**.
* Involved in using **Terraform to migrate** legacy and monolithic systems to **Amazon Web Services.**
* Used **Terraform scripts to Automate Instances** for Manual Instances that were launched before.
* Automated various infrastructure activities like **Continuous Deployment, Application Server setup, stack monitoring using Ansible Playbooks using Jenkins.**
* Created pipelines for deploying code from **GitHub to Kubernetes (K8s) cluster in the form of Docker containers using Spinnaker platform.**
* Automated OpenStack and AWS deployment using Cloud Formation, Ansible, Chef and Terraform.
* Implemented **HTTPS Ingress controller** and use TLS certificate on **AKS** to provide reverse proxy, configurable traffic routing for individual **Kubernetes services.**
* Moved all Kubernetes container logs, application logs, event logs and cluster logs, activity logs and diagnostic logs into **AzureEventHubs** and then into Splunk for monitoring.
* Worked on **Azure AD, Azure AD Connect**, and Federated SSO to control access to various cloud services and components.
* Optimized performance of **cloud** resources through **auto-scaling groups, Lambda optimization, and ECS cluster** balancing, reducing latency by 40%.
* Achieved **Infrastructure as Code** for deploying and updating production **Tanzu application services (PCF)** foundations through Concourse CI server and pipelines.
* Expertise in configuring the **monitoring and alerting tools** according to the requirement like **Prometheus and Grafana** setting up alerts and deployed multiple dashboards for individual applications in **Kubernetes**.
* Configured the **Kubernetes cluster** monitoring mechanism using **Prometheus** monitoring tool.
* Configuring the **Prometheus** alerts from the Kubernetes cluster via email-notifications and web-hook mechanisms. Written the **Python script for Prometheus Alert-manager alerts** to send and run the alerts in **Linux VM.**
* Worked on the Deployment, Configuration, Monitoring and Maintenance of **OpenShift** Container Platform. Implemented idea of secret management for **microservices** and creating service and ingress rules for each micro service. Worked on setup the **Kubernetes** sandbox on **Azure** **Kubernetes Services (AKS)** for testing the different features.
* Good hands-on experience working with **Azure** RBAC (Role Based Access Policy). Worked on **Azure** Blob storage and good knowledge on Queue storage and disk storage.
* Designed, implemented, and managed cloud infrastructure using **Terraform**, resulting in a reduction in deployment time and improved scalability.
* Experience with installation and configuration of **Dynatrace monitoring tools**. And created email alerts and threshold values using **Dynatrace** for our environment.
* Experienced working in Istio installation to enable **Node to Node encryption** on **Azure Kubernetes** service for Security. Familiarity with **AWS Redshift, Postgres, MySQL,** and other newer database technologies
* Extensively Worked on **Docker** service rolling updates to implement zero downtime PROD deployments and worked with **Docker** Trusted Registry as repository for our **Docker** images and worked with **Docker swarm**.
* Extensively worked on **Jenkins** for Continuous Integration and for End-to-End automation for all build and deployments with **ANT** and **MAVEN** builds.
* Used databases such as **MYSQL DynamoDB, IBM DB2** and Elasticache to orchestrate and manage database administration for various applications.
* Java applications have been deployed through **Jenkins** and **AWS** Code Deploy plugin is used to deploy to amazon’s instances and worked on **AWS Cloud Management.**

**Client: Amazon, Seattle, WA  
Dates: July 2022 – Jan 2023  
Role: Sr. Cloud Engineer | SRE Engineer  
Responsibilities:**

* Expertise in designing and deploying applications utilizing AWS components like **EC2, S3, EBS, VPC, ELASTIC IP, ELASTIC Cache, Glacier, Beanstalk, Dynamo & CouchDB, ELB, AMI, SNS, RDS, Redshift, IAM, Route 53, Auto scaling, CloudFront, Cloud Watch, Cloud Trail, Cloud Formation, Security Groups** and application monitoring in AWS tools to Build and deploy a microservice architecture integration with **ECS or AWS Lambda.**
* Developed Infrastructure as code with **CloudFormation** Templates to create custom sized **VPC, Subnets**, **Kinesis, Cognito, EC2 instances, ELB, Security Groups, Elastic Container Service (ECS), Cloud Front, RDS, S3, Route53, SNS, SQS, Glue, EMR, API Gateway, Lambda, ECR, DynamoDB, Elastic Cache, Secret Manager**. Worked on tagging standard for proper identification and ownership of AWS Services.
* Worked on **AWS Command Line (CLI), AWS SDK used AWS** Beanstalk for deploying and scaling web applications and services developed with **Java, PHP.**
* Wrote **AWS** CloudFormation templates to create custom sized VPC, subnets, EC2 instances, ELB, and security groups. Worked on tagging standards for proper identification and ownership of EC2 instances and other AWS Services like **CloudFront, CloudWatch, RDS, S3, Route53, SNS, SQS, Cloud Trail.**
* Leveraged **C# for backend integration, API development, and interfacing with MS SQL Server**. Proficiently used **Angular 8+** to build intricate applications.
* Demonstrated expertise in **SQL** with the ability to write queries, procedures, and triggers.
* Implemented Design Patterns**, SOLID principles, and Dependency Injection (DI)** for robust application architecture.
* Configured and maintained the **AWS Lambda function** to trigger when there is a Jenkins build kicked off, which internally gets stored on AWS S3 bucket for everybody to access. Created Route53 to route traffic between different regions. Worked with **Security groups & Network ACLs.**
* Wrote Lambda functions in python for **AWS Lambda** and invoked python scripts for data transformations and analytics on large data sets in **EMR** clusters and **AWS** Kinesis data streams and configuration management tools such as **Kafka**.
* Setup centralized logging using **CloudWatch** **Logs** and monitoring using **CloudWatch** **metrics** for microservices.
* Introduced automation testing using **Selenium** and load testing tools to ensure each microservice met performance SLAs.
* Established **IAM** **policies, data encryption, VPC security groups,** and threat monitoring using **AWS** native tools to enhance security.
* Migrated applications from a traditional data centre to **AWS** cloud using AWS services like **EC2, ELB, EBS, SparkleFormation, GitHub.**
* Design and implement **RESTful** microservice and Event Driven based architecture using **AWS Lambda, SNS,** **SQS, Amazon Dynamo DB.**
* Implemented several **TDD & BDD while** writing test-cases for several java and python scripts using languages **Cucumber** and Behave for the **Unit-tests and integrating them into Jenkins pipeline**.
* Installed and configured **ELK** stack mode and pipelined application logs from App Server to Elastic search through **Logstash**.
* Used **Ansible and Ansible Tower as configuration management tool,** to automate repetitive tasks, deploy applications and manage changes and automate software update and Verify functionality.
* Integrating **Junit tests in Ant & Maven** and configuring Jenkins to send the Unit test report to the development team.
* Provisioned and managed the infrastructure using Tanzu required to run the application on **AWS**, using tools **Terraform** or Cloud Formation and have setup the necessary networking, security, and compute resources.
* Used **Bash** and **Python** included Boto3 to supplement automation provided by **Ansible** and **Terraform** for tasks such as encrypting **EBS** volumes backing **AMIs** and scheduling Lambda functions for routine AWS tasks.
* Worked on **Docker to containerize** the Application and all its dependencies by writing Docker files, Docker-Compose files, **Docker container snapshots, managing Docker volumes, and deployed Docker Swarm using Ansible.**
* Created additional Docker Slave Nodes for **Jenkins** using custom Docker Images and pulled them to Cloud. Worked on all major components of **Docker like Docker Daemon, Hub, Images, Registry, Swarm.**
* Utilized **Kubernetes and docker** for the runtime environment for the **Continuous Integration/Continuous Deployment** system to build, test, and deploy. Created Jenkins jobs to deploy applications to **Kubernetes Cluster.**
* Designed and deployed open-source **EKS** stack on the **EC2** with Auto-Scaling groups using Terraform and **Ansible**.
* Integrated **Jenkins CI with GIT version** control and implemented continuous build based on check-in for various cross functional applications and created **GitHub** Webhooks to set up triggers for **commit, push, merge and pull request events**.
* Good experience on **Networking** in **AWS**, VPC, Data center to Cloud connectivity, Security groups, Route tables and ACLs in **AWS**.
* Working as a dedicated resource for a **Scrum Project** to provide timely firewall support and configuration for ongoing high priority Scrum Projects.
* Written **Bash shell scripts** for getting information about various **Linux servers and prepared Ruby codes**, programming of web applications and testing services on a daily basis.

**Client: MB Auto, Sunnyvale, CA  
Dates: May 2021 – Jun 2022  
Role: Sr. DevOps Engineer | Systems Engineer**

**Responsibilities:**

* Participated in **weekly release planning meetings**, identify, and mitigate potential risks associated with the releases.
* Managing **Azure** infrastructure with automation and configuration management tools such as **Ansible, Puppet**, or custom-built designing cloud-hosted solutions, specific **Azure** product suite experience.
* Wrote some **Groovy** scripts for setting up **LDAP configuration** for **Jenkins** using security matrix. Worked on all **Azure Services including VM’s, Azure Blob Storage, Azure Load Balancer.**
* Configuration management and orchestration tools for system and application configuration.
* Experience building large infrastructure for disaster recovery and multi **data center strategy**, managed the source code for various applications in **SVN and GIT.**
* Experience in migration of consumer data from one production server to another production server over the network with the help of **Bash and Perl scripting.**
* Experience in **VMWare Tanzu products**, including **Tanzu** applications services (PCF) and **Rabbit** **MQ**.
* Built **end to end CI/CD Pipelines in Jenkins** to retrieve code, compile applications, perform tests and push build artifacts to **Nexus Google Cloud Platform (GCP)** and Orchestrate changes across servers and components and configured **SonarQube** for code analysis in **Jenkins**.
* Worked in an environment majorly involved in Infrastructure as a code (laaC), execution plans, resource graph and change automation using **Terraform**. Managed **GCP** infrastructure as code using **Terraform**.
* Set up GCP **Firewall** rules to allow or deny traffic to and from the VM's instances based on specified configuration and used **GCP cloud CDN (content delivery network)** to deliver content from GCP cache locations drastically improving user experience and latency.
* Experience in **Google Cloud components, Google container builders, and GCP client libraries and cloud SDKs Used GCP HTTP(S) load balancing with Google Cloud Storage buckets** and added a Cloud Storage bucket to your load balancer.
* Worked on **google cloud platform (GCP**) services like compute engine, cloud load balancing, cloud storage, **cloud SQL**, stack driver monitoring and cloud deployment manager.
* Experience in migrating the Legacy application into **GCP** platform and managing the **GCP** services such as **Compute Engine, cloud storage, Big Query, VPC, Stack Driver and Load Balancing**.
* Used **Chef** for configuration management of hosted Instances within **GCP**. Configuring and **Networking** of **Virtual Private Cloud (VPC).**
* Installation, Configuration and administration of **DNS, LDAP, NFS, NIS, NIS+** and Send mail on **Redhat Linux/Debian Servers**. Configured, managed ESX VM’s with virtual center and VI client.
* Automated nearly everything related to **Kubernetes** using **Gitlab Pipelines and Argo CD.** Majority of pipelines used **Terraform** to build and update clusters.
* Integrated Kubernetes with **Hashicorp** **Vault** to inject configurations at runtime for each service using init, config sidecars and persistent volume sharing between app and config containers.
* Developed **Terraform** scripts, Helm charts / module for **AKS** setup and stateful application deployment to AKS **cluster.**
* Responsible for Installing, setup and Configuring **Apache** **Kafka** and **Apache Zookeeper**.
* Hands-on experience using **Gradle** as build tools for the building of deployable **artifacts (jar & war)** from the source and static code analysis using **SonarQube.**
* Setup various **Jenkins** jobs for build and test automation and created Branches, Labels and performed Merges in **Stash and GIT**.
* Managed the source control using **version controlling tools** like **SVN and GIT**. Designed and implemented scalable, secure cloud architecture based on **Azure.**
* Implemented Infrastructure automation through **Puppet**, for auto provisioning, code deployments, software installation and configuration updates.
* Used **ANT and MAVEN** as build tools on java projects for the development of build artifacts on the source code.

**Client: Trianz, Hyderabad, India  
Dates: May 2018 – Nov 2020  
Role: Cloud DevOps | Release Engineer  
Responsibilities:**

* Involved in developing **JUNIT Test Cases** to validate type of data in the **XML** Files. Performed **SQL** tuning using **SQL** **Trace**, explained plan for optimizing query performance.
* Established databases on **AWS** using **AWS** Database for **PostgreSQL/MySQL,** implemented storage using AWS S3 buckets, and configured automated backups to Elastic Block Storage. Prototyped a CI/CD pipeline with GitLab on **Elastic Kubernetes Service (EKS),** leveraging Docker containers for building, testing, and deploying applications.
* Proficient in administering and managing **Active Directory**, including user/group management, permissions, and security settings, ensuring a secure and organized directory structure.
* Managed and resolved intricate **API-related issues**, guaranteeing uninterrupted service for multiple tenants.
* Designed a system using **Kafka** to auto scale the backend servers based on events throughput.
* Deployed and installed new servers and their appropriate services for various applications in **Linux**.
* Written the **Python** script for **Prometheus** Alert-manager alerts to send and run the alerts in **Linux VM.**
* Used **GitHub** as a **version control System** and configured the **Jenkins** Sona type to generate code coverage and unit test reports.

**Client: Innominds Software, Hyderabad, India  
Dates: March 2016 – April 2018  
Role: Jr. System Engineer**

**Responsibilities:**

* Installed, upgraded, and configured **RHEL, CentOS, Ubuntu, and Solaris**.
* Monitored creating and managing user accounts, security, Access Control lists, permissions, disk space and process monitoring in **RHEL.**
* Provided **24/7 on call support** on Linux Production Servers. Responsible for maintaining security on **RHEL.**
* Configuration and Administration of **Apache Web Server and Secure Socket Layer (SSL).**
* Worked in an **Agile / Scrum development** team to deliver an end-to-end **continuous integration and continuous deployment in SDLC.**