



Sandeep P

Sr. Cloud Engineer

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CAREER OBJECTIVE:

8+ years of IT experience as **Sr. Cloud Engineer, Azure DevOps Engineer, Cloud Infrastructure Engineer, Cloud Platform Engineer, Linux system Administration** in SCM, Build/Release Management with Continuous Integration & Continuous Deployment/Delivery as an iterative process and Automation of infrastructure including end-to-end code configuration using different tools, and cloud services like **Azure, AWS, OpenShift, and PCF. (Pivotal Cloud Foundry)**

PROFESSIONAL SUMMARY:

- ❖ Proficient in **Microsoft Azure, IAAS, SAAS and PAAS** services such as **Virtual Networks, Virtual Machines, Blob storage, Azure Data Factory, Cloud Services, Resource Groups, Express Route, Traffic Manager, VPN, Load Balancing, Application Gateways, Auto-Scaling**, deploying **Web Apps**, monitoring by **Azure Application Insights**, and creating **Web-Jobs**.
- ❖ Extensively worked with various **Azure services** like **Web Roles, Worker Roles, Azure Websites, Caching, Azure SQL, Net worker servicers, API Management, Active Directory (AD) services** infrastructure in maintaining, and monitoring **Azure Active Directory (AAD)** infrastructure incorporated with periodic auditing, troubleshooting and performance.
- ❖ Hands-on experience in Designing, planning and implementation for existing on-prem applications to **Azure Cloud**. Configured and deployed **Azure Automation Scripts** utilizing **Azure stack (Compute, Web and Mobile, Blobs, ADF, Resource Groups, Azure Data Lake, HD Insight Clusters, Azure Data Factory, Cloud Services and ARM)**.
- ❖ Implemented a **CI/CD pipeline** using **Azure DevOps (VSTS, TFS)** in both cloud and on-premises with **GIT, MS Build, Docker, Maven along with Jenkins plugins**. Experience of utilizing **Microsoft Azure** which includes **Creating PaaS builds, PaaS deployments, Storage -Accounts, Queues, CDN, ARM templates, Azure Service Bus**.
- ❖ Implemented security controls and compliance checks by applying **DevSecOps** principles using **Infrastructure as Code (IaC)** tools like **Terraform**, ensuring secure and compliant cloud deployments.
- ❖ Experience in designing and deploying **AWS Solutions** using **EC2, S3, VPC, Auto-Scaling, EBS, SNS, SQS, Route 53, Elastic Load balancer (ELB), Auto scaling, Lambda, Elastic search, Container services ECS, Log stash, Kibana, Influx DB, Grafana**.
- ❖ Experience in maintaining **Amazon Web Services** and experience in Architecting Legacy Data Migration projects such as **Teradata to AWS Redshift, migration, Teradata to Snowflake Migration, AWS Cloud** from on-premises.
- ❖ Building/Maintaining **Docker/ Kubernetes container** clusters managed by **Kubernetes Linux, Bash, GIT, Docker, on GCP**.
- ❖ Build servers using **GCP**, importing volumes, launching **EC2, RDS**, creating security groups, **auto-scaling, load balancers (ELBs)** in the defined virtual private connection.
- ❖ Experience in setting up and configuring **ECS clusters** and integrating them with other AWS services, such as **Elastic Load Balancing (ELB)** and **Auto Scaling**. Also monitored **Kubernetes clusters** health by using **Prometheus and Grafana**.
- ❖ Hands-on experience Integrating **Office 365** with other cloud services, such as **Amazon WorkDocs**, to provide a seamless and secure experience for users.
- ❖ Utilized **Golang** to develop **Infrastructure as Code** solutions, enabling declarative and version-controlled infrastructure provisioning on platforms like **AWS, GCP, and Azure**.
- ❖ skilled in provisioning and managing **EC2 instances** to host application components that interact with **Amazon Pinpoint**.
- ❖ Implemented **Infrastructure as Code (IAC)** principles using tools like **Heat Orchestration Templates and Terraform** to define and deploy **OpenStack** resources.
- ❖ Managed **Kubernetes** charts using **Helm**, Created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and Managed releases of **Helm packages**.
- ❖ Had very strong exposure using **Ansible** automation in replacing the different components of **OpenShift** like **ECTD, MASTER, APP, INFRA, Gluster**.
- ❖ Proficient in using **Terraform** and **Ansible** also migration of legacy and monolithic systems to **Azure**. By creating **Ansible Nodes** we managed **RHEL and Ubuntu** virtual servers on **Azure**.
- ❖ Hands on developing and executing **PowerShell Scripts, Python and Shell Scripts** to automate the deployments.
- ❖ Developed and Managed **Azure Automation runbooks** and **PowerShell scripts** to automate the deployment and configuration of **Kafka clusters** on **Azure infrastructure**, including **virtual machines, networking, and storage resources**.

- ❖ Highly experience in Integrating **ADFS** with various identity providers such as **Azure AD, LDAP, SAML, and OAuth** providers, enabling seamless authentication across diverse platforms.
- ❖ Developed serverless applications using **Python** with **AWS Lambda** functions to respond to events, integrating with other **AWS services like API Gateway, S3, DynamoDB**, and deployed serverless applications using **AWS SAM (Serverless Application Model)** and through the **AWS Management Console**.
- ❖ Maintained mechanisms to protect sensitive data stored and processed in **Azure Databricks** by maintaining governance policies and compliance standards using **Azure Databricks'** access controls, auditing capabilities, and integration with **Azure Active Directory**.
- ❖ Experience with installation and configuration of **Docker** environment including **Docker registry hub** for managing different Docker images and deployment of applications inside the software containers.
- ❖ Integrated **JIRA** with **CI/CD** tools such as: **Jenkins, GitLab CI/CD** to track build and deployment progress, linking them to specific issues or user stories.
- ❖ Administered various flavors of Linux (**RHEL, CentOS, Ubuntu, Solaris, Fedora**) and worked on Logical Volume Manager (**LVM**), Kickstart, Bonding, **LAMP**, and **LDAP**.

TECHNICAL SKILLS:

Cloud	Azure, AWS, GCP
Configuration Management Tools	CHEF, ANSIBLE, PUPPET
Build Tools	ANT, MAVEN, GRADLE
Container Tools	Docker, Kubernetes, OpenShift, AKS
Version Control Tools	GIT, CVS, SVN, Bit Bucket, VSTS
Monitoring Tools	Nagios, Datadog, Splunk, ELK, Cloud watch, Dynatrace
Scripting	Bash/Shell, Perl, Python, PowerShell, Json, YAML, Groovy,
Database	My SQL, MS Access, Oracle 9i/10g/11g, DB2, NoSQL (MongoDB, DynamoDB)
Application services	WebLogic 9.x/10.x, WebSphere 6.x/7.x/8.x, JBOSS 4.1
Web Servers	Apache HTTP, Nginx, Apache TOMCAT
Networking	DNS, DHCP, SMTP, HTTP, SNMP
IDE Tools	ECLIPSE IDE, NETBEANS
Operating Systems	Windows2008/2012/2016 R2, Linux (RedHat 7/6, CENTOS 7/6& SUSE), Ubuntu
Virtualization Tech	VMware vSphere, ESXi 5.x/4.x, ESX /3.x VMware Workstation, Oracle Virtual box
CI/CD Tools	Jenkins, Hudson, Bamboo, Azure DevOps

Experience: April 2023 – Till date

San Diego Gas & Electric - USA: Sr. Cloud Engineer

Responsibilities:

- ❖ Designed and implemented a robust integration between **OpenText Cloud Services (OTCS)** and **Azure services, utilizing Azure Functions** for seamless data transfer and synchronization.
- ❖ Extensively worked with **Azure Blob Storage** for efficient storage, retrieval, and management of documents, ensuring high availability and durability of critical data, Also configured and maintained the **Azure monitoring tools** and services, such as **Azure Monitor, Azure Log Analytics, Application Insights, and Azure Security Center**.
- ❖ Configured and managed routing tables in **Azure Virtual Networks (VNETs)** to ensure efficient traffic routing between **OpenText services** and **Azure resources**.
- ❖ Developed custom solutions and applications within the **OpenText** environment to enhance document management capabilities, **leveraging Azure services like Blob Storage and Azure Virtual Machines** for storage and processing.
- ❖ Leveraged **Azure SDKs, APIs** to authenticate and authorize access to **Azure Blob Storage** for storing the PDFs.

- ❖ Configured the **Kubernetes** with **Terraform** to interact with resources supported by **Kubernetes** to create several services such as **Deployments, services, ingress rules, Config Map, secrets** etc., in different **Namespaces**.
- ❖ Designed and enforced **ingress/egress** rules within **Azure Network Security Groups (NSGs)** and **Azure Virtual Network Access Control Lists (ACLs)** to regulate network traffic flow and ensured secure communication between **OpenText** and **Azure services**.
- ❖ Utilized **Azure SDKs** and **APIs** to authenticate and authorize access to the designated **Azure Blob Storage** container for storing the **PDFs**, Implemented encryption mechanisms to safeguard the **PDFs** within the **Azure Blob Storage**.
- ❖ Set up **Azure Active Directory (Azure AD)** roles and policies to grant specific permissions to the application or script for interacting with the **Azure Blob Storage container**.
- ❖ Expertise in writing **Python** scripts to Implement **Lambda** functions to automate tasks, trigger actions, and enhance the overall functionality of the integrated environment.
- ❖ Expertise in developing a custom **Azure Resource Manager (ARM)** template specifically designed to create and manage security groups for **Azure Functions** within Azure.
- ❖ Managed **Azure route tables** within **Virtual Networks (VNETs)** to optimize traffic routing between **OpenText** services and **Azure resources**. Implemented route table configurations to ensure efficient communication between different **Azure services** and **resources**.
- ❖ Created **API requests** using tools like **Postman** to test and validate interactions between **OpenText Cloud Services (OTCS)** and **Azure services**.
- ❖ Developed a custom **Terraform** module tailored for Azure to provision and manage **Network Security Groups (NSGs)** for **Azure Functions**. Implemented robust error handling mechanisms to manage communication between **OTCS** and **Azure services** effectively.
- ❖ Expertise in writing custom modules or functions in **Python** to trigger **lambda function** to make **Rest API calls**.
- ❖ Designed, Implemented and Automated cloud infrastructure deployment, configuration, and scaling with **PowerShell** and cloud provider **APIs** by developing **PowerShell** scripts to monitor and optimize usage, cost, and performance.
- ❖ Deployed **MFA** solutions across various platforms such as **Azure AD, on-premises Active Directory, VPNs, and cloud-based applications** and configured **MFA** policies, settings, and enforcement rules based on security requirements.
- ❖ Proficient in integrating **Azure services** with other **cloud platforms**, utilizing **Azure Data Factory, Logic Apps, Azure Functions, and REST APIs** to ensure smooth data flow and automate processes effectively.
- ❖ Deployed and managed **AKS clusters (Azure Kubernetes Service)**, using **Azure Portal, Azure CLI, Azure PowerShell**, and worked using **Infrastructure as Code (IaC)** tools like **Terraform, ARM templates** to configure cluster settings such as node sizes, node counts, networking, and authentication.
- ❖ Managed Release Management and Deployments of the Solutions to the **DEV, QA & PROD** Environments leveraging **Azure DevOps, AKS (Azure Kubernetes Service)**, Application Insights, Log Analytics.
- ❖ Ensured modularity and reusability of the **ARM template** code by encapsulating **Azure Functions** security group provisioning logic within the newly created template.
- ❖ Deployed and maintained **Istio service mesh** on **Kubernetes** clusters or other supported platforms. Implementing traffic routing rules and policies using **Istio's VirtualService** and **DestinationRule** resources.
- ❖ Utilized **Azure Data Factory's** built-in connectors and integration with Azure services to ingest data from **Azure Blob Storage, Azure SQL Database, Azure Data Lake Storage**.
- ❖ Designed implemented and maintained **Continuous Integration/Continuous Deployment (CI/CD)** pipelines for deploying applications to **AKS**, automating build, test, and deployment processes.
- ❖ Deployed **Azure Key Vault** resource in **Terraform** to securely store sensitive information and utilized the **Terraform-azurerm_key_vault_secret** resource to manage variables, **API keys**, or any sensitive data required for deployments.
- ❖ Integrated **Terraform** with **Azure Key Vault** by referencing secrets stored in **Key Vault** directly within **Terraform** configuration and provisioned **Azure Monitor** resources such as alerts, action groups, and diagnostic settings.
- ❖ Designed and Implemented network security groups like, **Azure AD roles**, and other networking settings in **Terraform** configuration to ensure secure communication between **Azure Virtual Machines**.
- ❖ Utilized **Terraform CLI** and **Terraform Azure DevOps** tasks to apply **Terraform** configurations during **Continuous Integration/Continuous Deployment (CI/CD)** processes, in Azure DevOps pipelines to trigger **Terraform** executions based on code changes or predefined triggers.
- ❖ Leveraged **Azure Key Vault** to store and manage variables, **API keys**, required for the **ARM deployment** process and written **ARM templates** to create the **Azure Function, Blob Storage container**, variables in the Dev environment.

Experience: September 2021 – April 2023

OCC Chicago - USA: Sr. Azure DevOps Engineer

Responsibilities:

- ❖ Designed and configured **Azure Virtual Networks (VNETs)**, subnets, **Azure network settings**, **DHCP address blocks**, **DNS settings**, **security policies** and **routing**.
- ❖ Configured **Azure Multi-Factor Authentication** as a part of **Azure AD Premium** to securely authenticate users and worked on **Azure VPN-Point to Site**, **Azure Virtual networks**, **Azure Custom security**, **endpoint security** and **firewall**.
- ❖ Involved in working with **Azure Functions** where I had created and configured HTTP Triggers in the Azure Functions with Application insights for and performing the load testing on the Applications using **Azure DevOps**.
- ❖ Created **Azure Automation Assets**, **Graphical runbooks**, **PowerShell runbooks** that will automate specific tasks, deployed Azure AD Connect, configuring **ADFS** authentication flow, **ADFS** installation using **Azure AD Connect**.
- ❖ Migrated version control repositories such as **Git** and **TFVC (Team foundation Version control)** from **TFS (Team foundation Server)** to **Azure DevOps**, preserving commit history and branches.
- ❖ Configured **Azure DevOps** pipeline using **ARM templates** and **PowerShell** to deploy several azure services like **Azure app service**, **Azure key vault**, **storage** etc. Experienced on using **azure boards**, **Azure repos** and creating **YAML** pipelines.
- ❖ Expertise in helping the teams to set up monitoring solutions **Azure Monitor**, **Prometheus** and logging mechanisms for **Azure Log Analytics** to track the performance of **AKS (Azure Kubernetes Service)** clusters and applications.
- ❖ Set up monitoring solutions for **Nagios**, **Splunk**, **Prometheus** and centralized logging of **ELK stack** to track the health and performance of **OpenStack** resources.
- ❖ Expertise in building **CI/CD pipelines with (Azure Kubernetes Clusters) AKS**, which deployed my applications automatically to a **Kubernetes cluster**. Configured and managed **Dynatrace** monitoring solutions for applications, **infrastructure**, and services.
- ❖ Implemented security best practices for **(Azure Kubernetes Clusters) AKS clusters**, including role-based access control (**RBAC**), **Azure Active Directory** integration, pod security policies, and network security configurations.
- ❖ Experience in designing, configuring, and deploying solutions on **Microsoft Azure using (Azure Resource Manager) ARM Templates**, **Azure PowerShell** Module and, **Azure CLI** focusing on high-availability and auto-scaling.
- ❖ Configured diagnostics, and analytics on Azure using **API Management**, **Logic Apps** and set up documentation using **Swagger API**, while focusing on scale and resilience for **Azure Web Apps**.
- ❖ Implemented **Terraform** Templates automating Azure IAAS VM's using **terraform** modules and deployed virtual machine scale sets in production environment.
- Configured and managed **Docker** registries within **JFrog Artifactory** to serve as a secure and reliable source for container images. Integrated **MFA** with identity providers, authentication protocols (**e.g., SAML, OAuth**), and **single sign-on (SSO)** solutions.
- ❖ Utilized **Terraform** to define and deploy the infrastructure components required for **AI** and **ML platforms**, such as **virtual machines**, **storage accounts**, **virtual networks**, and managed **Kubernetes clusters** such as **Azure Kubernetes Service**.
- ❖ Experienced with deploying **Kafka clusters** in a highly available and fault-tolerant configuration, such as using **Azure Availability Zones** and **Azure Kubernetes Service (AKS)** to manage **Kafka** on Kubernetes.
- ❖ Expertise in writing reusable **infrastructure automation (IaC) code** libraries using **Terraform** for **IaaS**, **PaaS** and **SaaS** services in **Azure cloud** and maintained existing mission critical **cloud formation scripts** through **Terraform** and transformed **Terraform** as an enterprise level infrastructure automation tool.
- ❖ Expertized in Developing and implementing container orchestration strategies using **Amazon ECS**, including integration with other tools like **Kubernetes** and **Docker Swarm**.
- ❖ Implemented real-time data processing and analytics using **Databricks** with technologies like **Apache Kafka** and **AWS Kinesis** for processing streaming data sources.
- ❖ Provisioned and managed **AWS** resources required for hosting **Spring Boot** applications like: **EC2 instances**, **EKS clusters**, **RDS databases**, **S3 buckets**.
- ❖ Troubleshooting and resolving issues related to container deployments and **ECS** infrastructure, using monitoring and logging tools like **CloudWatch** and **ECS logs**.

- ❖ Automated the infrastructure using **Terraform** and making it auditable by storing all the infrastructure changes in a version control system like **GIT**.
- ❖ Designed deployed and configured **Active Directory Federation Services (ADFS)** for secure authentication and **single sign-on (SSO)** capabilities across applications and services.
- ❖ Deployed connection from Azure to **On-premises** datacenter using **Azure ExpressRoute** through **ARM template (Azure Resource Manager)** and **Jenkins** release pipeline for **Single and Multi-subscription** connectivity.
- ❖ Expertized in configuring **Azure DevOps** organization, projects, repositories, pipelines, and other necessary components to mirror the existing **TFS (Team foundation Server)** structure.
- ❖ Designed and managed branching and merging code changes, conducting code reviews, and ensuring code quality and consistency within **Agile** iterations by leveraging **Azure Repos** for version control and collaboration on codebases using **Git** and **Team Foundation Version Control (TFVC)**.
- ❖ Integrated **Golang** to interact with containerization platforms like **Docker** and container orchestration systems such as **Kubernetes** for efficient deployment and management of applications.
- ❖ Developed **Ansible playbooks**, inventories, and custom playbooks in **YAML**, and encrypted the data using **Ansible Vault** and maintained role-based access control by using **Ansible Tower** and Implemented IT orchestration using Ansible to run tasks in a sequence which can work on different servers.
- ❖ Collaborated with compliance and audit teams to ensure that **DevSecOps** practices align with industry standards and regulatory requirements. And stayed abreast of emerging security threats, **vulnerabilities**, and industry best practices to continuously enhance the **DevSecOps** program.

Experience:	July 2019 - August 2021
Morgan Stanley Atlanta - USA:	Azure Infrastructure Engineer

Responsibilities:

- ❖ Worked on various **Azure services** like **Compute (Web Roles, Worker Roles)**, **Azure Websites**, **Caching**, **SQL Azure NoSQL**, **Storage**, **Network services**, **Azure Active Directory**, **API Management**, **Scheduling**, **Auto Scaling**, and **PowerShell Automation**.
- ❖ Configured **Azure Virtual Networks**, **subnets**, **DHCP address blocks**, **Azure network settings**, **DNS settings**, **security policies** and **routing**. Also, deployed **Azure IaaS** virtual machines and **Cloud services (PaaS role instances)** into secure Virtual Networks and subnet.
- ❖ Designed & Implemented **Proof of Concepts POCs** for migrating the on-premises applications / Physical Servers to **Azure IaaS & PaaS services** like **IaaS VMs**, **PaaS VMs**, **Azure SQL**, **Azure SQL Data warehouse**, **Azure Storage**, **Azure Service Fabric Cluster**, **Azure Data Lake**, **Hadoop HDI Cluster** etc.
- ❖ Expertise in working on **AWS to Azure migration**, **JIRA to Azure DevOps Migration**, **GitHub to Azure DevOps Migration** along with Experience in configuring and using **PaaS offerings** (like **Azure Database services**, **Azure Kubernetes**, **Azure Containers**, **DNS**, **Application gateway**).
- ❖ Designed, implemented and managed the **AKS clusters** with other Azure services such as **Azure Container Registry (ACR)**, **Azure DevOps**, **Azure Functions**, and **Azure Logic Apps** with seamless integration of containerized applications with Azure services for development, deployment, and automation.
- ❖ Designed and automated the workflows in **JIRA** to trigger **CI/CD pipelines**, ensuring automated build, test, and deployment processes are seamlessly integrated with project tracking.
- ❖ Integrated **Dynatrace** into **CI/CD pipelines** for automated monitoring and performance testing. Implement **CI/CD pipelines** using tools like **Jenkins**, **GitLab CI**, and **Azure DevOps**.
- ❖ Integrated **AKS (Azure Kubernetes Service)** with DevOps tools such as **Azure DevOps**, **Jenkins**, **GitLab CI/CD**, or others for seamless application deployment and management.
- ❖ Implemented **CI/CD pipelines** for **ADFS** configurations, allowing for automated deployment of changes, updates, and patches while maintaining high availability.
- ❖ Expertise in monitoring solutions like **AWS CloudWatch** and **Azure Monitor** to track the health and performance of **Spark clusters**, identifying issues and ensuring reliability.
- ❖ Skilled in Configuring and managing storage solutions such as **VMware vSAN**, **NFS**, **iSCSI**, and **Fibre Channel** storage, Implementing storage policies and datastores for **VMs**.

- ❖ Skilled in Integrating **MFA solutions** with **identity and access management (IAM) systems**, directory services, and user repositories to ensure seamless authentication workflows.
- ❖ Implemented **Azure Active Directory** for **single sign-on** access to many of cloud SaaS applications like **Office 365, Dropbox**. Created many users under a same subscription and enabled **Multifactor Authentication** for users.
- ❖ Skilled in migrating **on-premises databases** or databases from other cloud providers to **Azure SQL** using tools like **Azure Database Migration Service (DMS), Azure Data Migration Assistant (DMA)**, and custom scripts.
- ❖ Expertise in utilizing scripting languages like: **PowerShell, Bash** and automation tools to streamline **ADFS operations**, configuration updates, and routine maintenance tasks.
- ❖ Created **Azure** infrastructure using **ARM templates, Azure pipelines** to build, test, and release, and managed **Azure Container Registry** to store private **Docker images**, which are deployed. **Grafana Monitor** to collect metrics and logs.
- ❖ Integrated **AWS Identity and Access Management (IAM)** for fine-grained access control to **AWS Aurora** resources. Implement least privilege principles for database access.
- ❖ Utilized **Azure Databricks** for scalable and efficient data processing tasks, including **ETL (Extract, Transform, Load)** operations, data cleansing, and data visualization using **Apache Spark**-based notebooks in **Azure Databricks**.
- ❖ Created **RESTful APIs in Golang** for seamless communication between various components of the **DevOps pipeline**, enhancing integration and collaboration.
- ❖ Expertise in seamless testing into the **CI/CD pipeline**, enabling the ongoing validation of code and infrastructure against widely recognized security benchmarks, in accordance with **DevSecOps principles**.
- ❖ Integrated **Golang-based tools** and scripts into **Continuous Integration and Continuous Deployment (CI/CD)** pipelines, automating code testing, building, and deployment processes.
- ❖ Experienced in Integrating **Azure Key Vault** for secure management of sensitive information such as secrets, certificates, and keys used by **AKS applications**.
- ❖ Expertise in implementing **Continuous Integration/Continuous Deployment (CI/CD) pipelines** to automate the building, testing, and deployment of applications on **PCF**. (Pivotal Cloud Foundry)
- ❖ Experienced in conducting **code review** sessions, placing significant emphasis on the detection and resolution of security vulnerabilities, aligning with established **DevSecOps** best practices.
- ❖ Implemented a **Continuous delivery pipeline** with **Docker**, whenever a new **GitHub** branch gets started, our **Continuous Integration server** automatically attempts to build a new **Docker** container from it.
- ❖ Implemented **Kubernetes** to manage containerized applications using its nodes, Config Maps, selector services and deployed application containers as Pods.
- ❖ Orchestrated seamless integration of **JFrog Artifactory** with **CI** server like: **Jenkins, GitLab CI** to automate build processes and artifact uploads, **CI/CD pipelines**, using **Dynatrace** for performance testing and validation.
- ❖ Experienced in **OpenShift** platform in managing **Docker Containers, Kubernetes Clusters** and implemented a production ready, load balanced, highly available, fault tolerant **Kubernetes** infrastructure and created **Jenkins** jobs to deploy applications to **Kubernetes** Cluster.
- ❖ Integrated with **Azure Key Vault** for secure storage and management of sensitive information such as encryption keys and credentials used by **JFrog Artifactory**.

Experience: **August 2017 - July 2019**

Master Card, St Louis - USA: **AWS Platform Engineer**

Responsibilities:

- ❖ Hands on experienced in working with AWS services like **EC2, S3, ELB, RDS, SQS, EBS, VPC, IAM, SNS, RDS, EBS, Cloud Watch, Cloud Trail, Cloud Formation templates, Autoscaling, Cloud Front, Route53**.
- ❖ Skilled in Configuring **AWS load balancers**, utilizing **Kubernetes** services by externally using **AWS Application Load Balancers (ALB)** and **Network Load Balancers** to distribute incoming traffic across **Kubernetes pods** and services.
- ❖ Integrated **Amazon EC2** with **AWS services** such as **S3, RDS, VPC** to provide a complete, secure solution for computing, query processing, and cloud storage across a wide range of applications.
- ❖ Leverage deployment of orchestration tools like **AWS Elastic Beanstalk & AWS ECS** to seamlessly deploy applications and associated **AWS Aurora** resources together.
- ❖ Migrated few **Cloud Formation templates** to **Terraform** by using various **AWS modules** and Secured the **Terraform** state file in **S3 buckets**.

- ❖ Highly skilled on **Terraform** and **AWS CloudFormation** templates to define and provision the underlying infrastructure required for **Kubernetes** clusters on **AWS**, including configuring **VPCs**, **subnets**, **security groups**, **IAM roles**, to support the **Kubernetes** environment.
- ❖ Successfully Involved in setting up **AWS S3** services like creating **buckets**, configuring buckets with permissions, logging, versioning, and tagging & lifecycle policies to back the data from **AWS S3** to **AWS Glacier**.
- ❖ Highly expertise in developing, optimizing and executing **ETL (Extract, Transform, Load)** processes using **Databricks**, processing large volumes of data for downstream analytics and reporting.
- ❖ Created **AWS Multi-Factor Authentication (MFA)** for instance **RDP/SSH** login, worked with teams to lock down security groups.
- ❖ Deployed and managed **Kubernetes clusters** using **Amazon EKS(Elastic Kubernetes Services)**, a fully managed Kubernetes service. This includes provisioning **EKS clusters**, configuring networking, and managing worker nodes to run containerized workloads.
- ❖ Implemented data ingestion pipelines and **ETL** processes using **Spark**, handling data from various sources and transforming it for analytics and reporting.
- ❖ Responsible for building/deploying consistently repeatable build/deployments to company production and non-production environments using **Jenkins** and **BUILD Pipelines, ANT, MAVEN**.
- ❖ Deployed **Java/J2EE** applications to WebLogic server using Jenkins builds. Automate Continuous Build and Deploy Scripts for **Jenkins** Continuous Integration tool.
- ❖ Created post commit and pre-push hooks using **Python** in **SVN** and **GIT** repos. Setting up the **SVN** and **GIT** repos for **Jenkins** build jobs.
- ❖ Expertise in Installing, configuring, and maintaining **VMware vSphere infrastructure**, including **ESXi hosts**, **vCenter Server**, and **vSphere Web Client**.
- ❖ Expertise in Integrating **Kubernetes** applications with **RDS databases** such as **MySQL**, **PostgreSQL**, and **Amazon Aurora** for data persistence, configuring database connections, managing access credentials, and handling database schema migrations within **Kubernetes** environments.
- ❖ Strong experience with **AWS IAM** service in creating users & groups, defining roles and policies and Identity providers. Moreover, used them to restrict access to certain buckets from certain persons.
- ❖ Deploying containerized applications to **Kubernetes** clusters on **AWS**, using tools like **kubectrl**, **Helm**, and **AWS App Mesh**. Created **OpenShift** clusters on AWS and deployed applications on top of **OpenShift** clusters.
- ❖ Designed, Maintained and Enabled mutual **TLS (mTLS)** authentication between services to secure communication within the **Istio's mesh**, Implementing access control policies using **Istio's** Authorization Policy resource.
- ❖ Leverage **AWS SDK for Node.js** to interact with various AWS services like **S3**, **DynamoDB**, **SQS**, **SNS**, and more.
- ❖ Experience in configuring **CI/CD pipelines** for building, testing, and deploying **applications** on **AWS** using tools like **AWS CodePipeline**, **AWS CodeBuild**, and **Jenkins**.
- ❖ Implemented **IAM** roles and policies to grant specific permissions for **Jfrog Artifactory** operations, ensuring secure access control based on **AWS** identities. Automated the deployment and management of **Spring Boot** applications on **AWS** using infrastructure as code (**laC**) tools like **AWS CloudFormation** and **Terraform**.
- ❖ Used **AWS Beanstalk** for deploying and scaling web applications and services developed with **Java**, **Node.js**, and **Python** on familiar servers like Apache, **Nginx**, Tomcat.
- ❖ Utilized **Python** libraries like **Kafka Streams**, **Faust**, and **PyKafka** to perform stream processing tasks such as windowing, aggregation, filtering, and joining of Kafka streams.
- ❖ Expertise in Integrating **Python** applications with logging frameworks like **Loguru**, **Log4Py**, or **Python's** built-in logging module to capture **Kafka-related logs** and metrics for monitoring and troubleshooting purposes.
- ❖ Utilized **Cloud Watch** to monitor resources such as **EC2**, **CPU memory**, **Amazon RDS DB Services**, **EBS volumes** to set alarm for Notification or Automated actions, and to monitor logs for operation of the system.
- ❖ Integrated **PCF(Pivotal Cloud Foundry)** with various AWS services such as **Amazon RDS**, **Amazon S3**, **Amazon DynamoDB**, **AWS Lambda**, and others to leverage the full capabilities of the **AWS ecosystem**.
- ❖ Skilled in setting up monitoring tools like **Prometheus**, **Grafana**, **Splunk** and **Nagios** to monitor **Kafka cluster health**, resource usage, and performance metrics and configured logging to capture **Kafka server logs** for troubleshooting and auditing purposes.
- ❖ Specialized in provisioning **EKS Kubernetes** clusters on **AWS** and **GKE Kubernetes** clusters on **GCP**, encompassing the setup of masters, slaves, RBAC, **helm**, **kubectrl**, and ingress controllers, facilitated by **Terraform** foundation modules.

Experience:	May 2016 - August 2017
Mphasis Limited - India:	DevOps Engineer

Responsibilities:

- ❖ Skilled in **DevOps migration** and automation processes for building and deploying the system utilized **Jenkins** and implemented **CI/CD pipeline** using plugins like conditional build step, deploy to **Git**.
- ❖ Expertise in utilizing **Jenkins** as a **continuous integration (CI)** tool to create new jobs, managing required **plugins**, configuring the jobs selecting required source code management tool, build trigger, build system, and post build actions, notifying the build reports.
- ❖ Configure in Application Deployment on **Pivotal Cloud Foundry (PCF)** using **CF push** and Urban code deploy. Also, **PCF** backup for all the environments and set-up **F maven** build automation with uploads to **PCF**.
- ❖ Expertise in utilizing **GIT** version control to manage the source code and integrating with **Jenkins** to support build automation and integrated with **JIRA** to monitor the commits.
- ❖ Expertise in Integrating **JIRA** with version control systems (e.g., **Git**, **SVN**) and development platforms (e.g., **GitHub**, **Bitbucket**) to facilitate seamless tracking of code changes, commits, and pull requests.
- ❖ Utilized **ANT** as a build tool on Java projects for the development of build **artifacts** on the source code.
- ❖ Created and managed **CI/CD pipeline** Using **Jenkins**, **Nexus**, **Git** to improve the efficiency and produce or release bug free or highly effective applications to the end users or customers.
- ❖ Utilized **Jenkins** and **Maven** to automate the build and deployments for Java based projects and stored the binaries of the projects in **Nexus** or **JFrog Artifactory**. Integrated **JFrog Artifactory** seamlessly into the **CI/CD pipelines**, enabling automated builds, deployments, and releases.
- ❖ Installation and configuration Infrastructure Automation Tool **Puppet** and created, updated **Puppet manifests**, modules, files, and packages.
- ❖ Working as part of **DevOps** team for different internal automation and build configuration management. Configured the user's accounts for Continuous Integration - **Jenkins**, **Nexus**, and **Sonar**.
- ❖ Experience in writing **Puppet manifests** and modules to automate the deployment process and to integrating **Puppet** manifests into **Jenkins/Hudson** jobs for a **continuous Delivery (CD)** framework.
- ❖ Implemented building tools such as **Ant** and **Maven** to automate and enhance the overall operational environment.
- ❖ Experience in using **Splunk** for log analyzing and improving the performance of servers. Managed and monitored the servers and network infrastructure using **Nagios** thoroughly.
- ❖ Having strong and progressive experience in the server installation and administration of **Red Hat Linux**, **Kali Linux**, **Debian**, **Centos**, **OEL (Oracle Enterprise Linux)**, **SUSE** and **VMware vSphere ESX & ESXI**, **Microsoft Hyper-V**, **Windows Server** on various Hardware Platforms.
- ❖ Installed, Configured of **NFS**, **DNS**, **SAMBA**, and deservers in **RedHat**, **Debian**, and **Ubuntu Linux Servers**. Configured and managed **SELinux (Linux Firewalls)** and allowed appropriate ports with help of tables.
- ❖ Experience in System Administration working on **Red Hat Linux**, **Ubuntu**, **Solaris**, **Unix**, **CentOS**, **Fedora**, **OEL**, **Windows environments**, **VMware vSphere**.
- ❖ Configured **Lightweight Directory Access Protocol (LDAP)** for directory services, providing a centralized repository for user and group information across the network.
- ❖ Optimized **Active Directory** integration by configuring **Kerberos authentication (KRB)** with **System Security Services Daemon (SSSD)**, ensuring secure and seamless user authentication across **Linux systems**.
- ❖ Implemented **LDAPS (LDAP over SSL)** for encrypted communication, fortifying the security of user authentication and directory services.