Senior AWS DevOps Engineer / Senior Cloud Engineer

**Pranati.T**

**PROFESSIONAL SUMMARY:**

* 09+ years of IT experience with sound knowledge in Configuration Management, Continuous Integration and Continuous Delivery (CI/CD), Build and Release, Linux and System Administration with cloud platforms like Amazon Web Services (AWS), Azure, OpenStack, under the Unix/Linux/Windows platform’s with strong knowledge on the principles and best practices of Software Configuration Management (SCM) in Agile, Scrum, and Waterfall methodologies. Knowledgeable on scripting languages as Python hands on experienced.
* Expert in various Azure services like Compute (Web Roles, Worker Roles), Caching, AzureSQL, NoSQL, Storage, and Network services, AzureActiveDirectory, API Management, Scheduling, Azure Autoscaling, PowerShell Automation, Azure Virtual Machines, Azure search, Azure DNS, Azure VPN Gateway. Extensively worked on Hudson, Jenkins for CI and for End-to-End automation for all build and deployments.
* Strong Windows Azure proficient in Windows Azure deployments, incident management, and production support for Azure components, IT administration and maintenance, Project Management, PowerShell scripting, live site incident management.
* Experience in AZUREactiveDirectory& Domain Service, SSO, and security. Implemented AZURE Storage, AZURESQL& developing AZURE web role.
* Expertise in migrating the existing v1 (Classic) Azure infrastructure into v2 (ARM), scripting and templating the whole end to end process as possible. Configuring the Azure Load Balancer to Load balance incoming traffic to VM’s.
* Extensive experience on AWS services like ELB, EC2, S3, VPC, NACL’s,Cloud Formation, Route 53, Network Connectivity troubleshooting, Hybrid Environments and VPC peering. Experience is using Tomcat, JBOSS, Web Logic and WebSphere Application servers for deployments.
* Experienced in both framework and CloudFormation to automate AWS environment creation along with the ability to deployment on AWS, using build scripts (AWS CLI) and automate solutions using Shell and Python. Experience in maintaining Elastic search, Log stash and Kibana stack to centrally collect logs that are used to monitor applications and pipeline Application Logs from App Servers to Elasticsearch through Logstash.
* Experience on AWS, focusing on high-availability, fault tolerance, and auto-scaling using Terraform templates. Along with (CI/CD) with AWS Lambda and AWSCodePipeline. Developed Puppet modules to automate deployment, configuration and lifecycle management of key clusters.
* Experience in Infrastructure on AWS using IAM, API Gateway, CloudTrail, Cloud Watch, Amazon Simple Queue Service (Amazon SQS), AWS Kinesis, Lambda, NACL, Elastic Beanstalk, Redshift, and CloudFormation.
* Experience on Ansible and Ansible Tower to automate repetitive tasks, to deploy critical applications quickly, and proactively manage the changes and wrote many playbooks to manage Web applications.  Experience in installing and configuring the Ansible management node to deploy the configuration to the end user nodes. Experience in system monitoring with Nagios, CloudWatch, ELK (Elasticsearch, Logstash, Kibana),Splunk, JIRA.
* Authored Playbooks in Ansible using YAML scripting and Manifests in Puppet using DSL to provision Nginx, Apache Spark, Apache Webservers, Tomcat servers. And custom modules with Ansible Playbooks to automate in AWS services like Launching EC2, Provisioning IAM, and Configuring VPC.
* Built out Server Automation and Maintained the Chef and Puppet servers by Cookbooks, Recipes, Roles, and environments, Chef Automate, Chef Compliance and Puppet Manifests, Modules, Puppet DB, Puppet Server.  Strong experience as a Chef creating cookbooks and recipes.
* Expertise in using Chef Attributes, Chef Templates, Chef recipes and Chef files for managing the configurations across various nodes, build, design and maintain the platform automation using Chef and Involved in setting up Chef Workstation, Nodes, Cookbooks, and Recipes using Ruby Scripting.
* Hands-on experience in bootstrapping the nodes using knife and automated by testing Chef Recipes, Cookbooks with test-kitchen and chef spec. Refactored Chef and Ops Works in AWScloud environment. Experienced in pivotal cloud Foundry and OpenStack for continuous automated deployment.
* Strong in Puppet modules to automate the installation and configuration for a broad range of services and wrote Puppet code to provision infrastructure including LAMP stacks, Oracle middleware, Artifactory, and Docker.
* Expertise with Docker images using a Docker file, worked on container snapshots, removing Images and managing Docker volumes. Orchestration of Docker images and Containers using Kubernetes by creating master and node.
* Involved in the functional usage and working knowledge of web servers like Tomcat, HTTP, and Nginx.  Experience in software build tools like Maven, Ant to write Pom.xml and Build.xml respectively. Experienced in setting up CI/CD pipelines using Jenkins and building art factories.
* Expertise in Clusters using Kubernetes and worked on creating many pods, replication controllers, services, deployments, labels, health checks. Proficient knowledge with Mesos providing the fine-grained resource allocations for pods across nodes in a cluster.
* Extensively worked on Jenkins and Bamboo by installing, configuring and maintaining the purpose of CI and End-to-End automation for all build and deployments implementing CI/CD for the database using Jenkins. Used Jenkins API to query the Jenkins server state and change configuration and automate jobs on nodes. Wrote puppet manifests for deploying, configuring and managing collected for metric collection and monitoring.
* Experienced in branching, tagging and maintaining the version across the environments using SCM tools like GitHub, Subversion (SVN) and TFS on Linux and Windows platforms. Maintained and administered GIT source code tool. Imported and managed multiple corporate applications into GitHub code management repo. Used Ticketing & Project Management tools like Jira, Team Foundation Server in DevOps, Service Now, and HPQC.
* Experience in setting up and managing ELK (Elastic Search, Log Stash & Kibana) Stack to collect, search and analyze logfiles across servers, log monitoring and created geo-mapping visualizations using Kibana in integration with AWS CloudWatch and Lambda. Evaluated system logs using ELK software stack.
* Experience in working Splunk to analyze & visualize large volumes of log data obtained from servers. Worked in the agile environment of JIRA refactoring existing components & widgets to keep in sync with the emerging trends of AEM. Expertise in working with Bug Tracking Tool like JIRA.
* Strong experience in installation, configuration, maintenance and troubleshooting of RedHat Linux, SUSE Linux, Ubuntu, Fedora, CentOS, Sun Solaris, Windows Servers and customizing the Kickstart and Jumpstart scripts to automate the installation of various servers used for various internal projects.
* Experience in installing, configuring, supporting, and troubleshooting Unix/Linux Networking services and protocols like TCP, SMTP, HTTP, LDAP, DNS, NFS, DHCP, NAS, FTP, SSH, and SAMBA. Integration and Continuous Deployment (CI/CD) in AWS, DevOps for Continuous
* Experience in Red Hat Enterprise Linux Administration, Software Configuration Management, Build & Release management, DevOpsEngineer and Cloud Engineering. Experienced in Writing Chef Cookbooks and Recipes to automate our build/deployment process.
* Experience in using Kubernetes to deploy, load balance, scale and manage Docker containers with multiple name spaced versions.
* Experienced in designing, deploying and maintaining various multitude applications utilizing AWS services stack including EC2, S3, EBS, EFS, Elastic Beanstalk, Route 53, VPC, Cloud Front, Dynamo DB, Red Shift, RDS, IAM, ECS, ELB, Cloud Formation, Elastic Cache, Cloud trail, SNS, SQS and Auto Scaling.
* Experience in creating Alarms and monitored metrics using AWS Cloud Watch to maintain a reliable and highly available and fault tolerant cloud environment. Experience on Terraform for building, changing, and versioning infrastructure safely and efficiently.
* Experienced in building and highly automated infrastructure using automation frameworks such as Cloud Formation, terraform and Ops Works.
* Experience in migrating infrastructure and application from Microsoft AZURE and on premise to AWS.
* Experience in Azure App&Cloud Services, PaaS, Azure Data Factory, AzureSQL Data Warehouse, Power BI, Azure Blob Storage, Web API, VM creation, ARM Templates, PowerShell scripts, IaaS, Storage and database. Integration of Maven/Nexus, Jenkins, Git, Confluence, JIRA and Cloud Foundry.
* Experience in involving JIRA as defect tracking system and configure various workflows, customizations, and plugins for Jira bug/issue tracker.
* Experience in designing and developing infrastructure using Terraform and Cloud Formation and automated end to end transit hub connectivity resource deployment in AWS. Proficient in using version control tool like Team Foundation Server (TFS) and VSTS, SVN
* Experience in creating Docker images using a Docker file, created Dockerswarm clusters and maintained the swarm setup using Kubernetes Orchestration for cloud-based applications. Expertise in deploying the code through web application servers like Web Sphere, Web Logic, ApacheTomcat, JBOSS.
* Experienced in configuring and managing Puppet master server and in updating and creating modules and pushing them to puppet clients.
* Experience with Jenkins and Hudson by installing, configuring and maintaining for continuous integration (CI) and for End-to-End automation for all build and deployments. Expertise in building CI/CDpipeline, upstream/downstream projects, multi-branch pipelines with the help of Jenkins.
* Experience in utilizing Continuous Integration and Continuous Deployment through Agile Methodology to deliver weekly software deployments through Bamboo. Experience with setting up Ansible Infrastructure, Boot strapping nodes, creating and uploading playbooks.
* Experienced in using Maven as build tool for the building of deployable artifacts (Jar, war, ear) from source code and writing pom.xml and build.xml for Java and J2EE Applications. Experienced in using ANT, Gradle to create dependency jars and deploy the entire project on to the ApacheTomcat Server.
* Experienced in Branching, Merging, Tagging and maintaining the version across the environments using SCM tools like GIT, GitLab in Gitbash CLI, Bit bucket and Subversion (SVN) on windows and Linux platforms. Integration and Continuous Deployment (CI/CD), and Terra form, Ansible, Puppet for Configuration Experienced in using RDS, MYSQL, Aurora DB, PostgreSQL, Dynamo DB and Cassandra DB to perform basic database administration.
* Experience in using Nagios, Splunk as a monitoring tool to identify and resolve infrastructure problems before they affect critical processes and improving the performance of servers.

**TECHNICAL SKILLS**

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| **Version Control Systems:** | GIT, Subversion (SVN), TFS (Team Foundation Server) |
| **Operating Systems:** | RHEL/CentOs5.x/6.x/7.x/8.x.Ubuntu/Debian/Fedora,Windows 2008/2012/2016/2019 |
| **CI/CD Tools:** | Jenkins, Artifactory, Nexus, Azure DevOps, kafka, Groovy |
| **Containers:** | Docker, Kubernetes, Packer. |
| **Scripting Languages:** | Shell, PowerShell, Azure CLI, Arm Templates, AWS CLI, Terraform |
| **Web Servers:** | Tomcat, Apache, IIS, JBOSS, Spring boot |
| **Cloud Platforms:** | Azure, AWS |
| **Virtualization:** | Nutanix, Hyper-VMware, vSphere, Oracle Virtual box. |
| **Configuration Management:** | Chef Server, Client Dk, Chef client, Ansible |
| **Log Management:** | Log Analytics, Qradar, Cloud Trail |
| **Performance Monitoring:** | App Insights, JProfiler, App Dynamics, Cloud Watch |
| **Firewalls:** | Palo Alto, CISCO, Meraki, Fortinet, Ubiquiti |
| **Storage Types:** | Storage accounts, Blob Storage, File Storage, S3, Simple Queue Service |
| **Databases:** | **MS SQL, Mongo DB, Cosmos, MySQL** |
| **Project Management Tools:** | MS Office, MS Project |
| **Bug Tracking Tools** | JIRA, Remedy, IBM clear Quest, Bugzilla |

**Professional Experience**

**Client: T- Mobile, Bellevue, WA, USA May 2021 – Till Date Senior DEVOPS/AWS ENGINEER**

* Created recommendations on how to duplicate a subset of on-premises machines to the **Azure** Infrastructure as a Service (**IAAS**) offering which will be used for disaster recovery. This analysis included the specifics to synchronize on-premises data with SQL Server and SharePoint instances hosted in VMs.
* Worked on **Azure Site Recovery** and **Azure Backup- Deployed** Instances on Azure environments and in Data centres and migrating to Azure using **Azure Site Recovery** and collecting data from all Azure Resources using **Log Analytics** and analysed the data to resolve issues.
* Configured **Azure Multi-Factor Authentication** (MFA) as a part of **Azure AD Premium** to securely authenticate users and worked on creating custom Azure templates for quick deployments and advanced PowerShell scripting.
* Deployed **Azure SQL DB** with **GEO Replication, Azure SQL DB** Sync to standby database in another region & fail over configuration.
* Worked on Server less services, created and configured **HTTP** Triggers in the Azure Functions with application insights for monitoring and performing load testing on the applications using the **Visual Studio Team Services** (**VSTS**) also called as **Azure DevOps** Services.
* Created Azure Automation Assets, Graphical runbook, PowerShell runbook that will automate specific tasks, deployed **Azure AD Connect**, configuring **Active Directory Federation Service** (AD FS) authentication flow, ADFS installation using Azure AD Connect, and involved in administrative tasks that include **Build**, **Design**, **Deploy** of **Azure** environment.
* Configure Continuous Integration from source control, setting up build definition within **Visual Studio Team Services** (**VSTS**) and configure continuous delivery to automate the deployment of ASP.NET MVC applications to Azure web apps and managed **Azure Active Directory, Office 365** and applied upgrades on a regular basis.
* Implemented a **CI/CD** pipeline with **Docker**, **Jenkins** (**TFS Plugin installed**), **Team Foundation Server** (**TFS**), **GitHub** and **Azure** Container Service, whenever a new **TFS/GitHub** branch gets started, Jenkins, our Continuous Integration (CI) server, automatically attempts to build a new **Docker** container from it.
* Worked with Terraform Templates to automate the **Azure Iaas** virtual machines using terraform modules and deployed virtual machine scale sets in production environment.
* Managed Azure Infrastructure **Azure Web Roles, Worker Roles, VM Role, Azure SQL, Azure Storage, Azure** AD Licenses, Virtual Machine Backup and Recover from a **Recovery Services Vault** using **Azure PowerShell and Azure Portal**.
* Written Templates for Azure Infrastructure as code using **Terraform** to build staging and production environments. Integrated **Azure Log Analytics** with Azure VMs for monitoring the log files, store them and track metrics and used Terraform as a tool, Managed different
* with **Kubernetes** architecture and design troubleshooting issues and multi-regional deployment models and patterns for large-scale applications.
* Deploying windows **Kubernetes** (**K8s**) cluster with **Azure Container Service** (**ACS**) from **Azure CLI** and Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI/CD** system to build, test and Octopus Deploy.
* Using **Ansible** created multiple playbooks for machine creations and **SQL server**, cluster server and my **SQL installations**.
* Written **Ansible** handlers with multiple tasks to trigger multiple handlers and to decouple handlers from their names, making it easier to share handlers among Playbooks and Roles.
* Managed **Kubernetes** charts using Helm, Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of **Helm** packages.
* Implemented Docker -maven-plugin in Maven pom.xml files to build Docker images for all microservices and later used Docker file to build the Docker images from the Java jar files.
* Designed, wrote and maintained systems in Python scripting for administering GIT, by using Jenkins as a full cycle continuous delivery tool involving package creation, distribution, and deployment onto Tomcat application servers via shell scripts embedded into Jenkins jobs.
* Maintained Artifacts in binary repositories using JFrog Artifactory and pushed new Artifacts by configuring the Jenkins project Jenkins Artifactory plugin.
* Involved in Jira as defect tracking system and configure various workflows, customizations ,and plugins for Jiraug/issuetracker integrated Jenkins with JiraGitHub.

**Client: Discover Financial, Riverwood’s, IL, USA Dec 2018 –Apr 2021 Senior Cloud/DevOps Engineer,**

* Hands on experience in Amazon Web Services (AWS) provisioning and good knowledge of AWS services like EC2, S3, Glacier, ELB (Load Balancers), RDS, SNS, SWF, and EBS etc.
* Implementing new projects builds framework using Jenkins, Maven as build framework tools.
* Participate in Multiple Projects Architectures and Strategic Decisions meetings to Architect the new Software systems or modify the Existing ones.
* Designing and Implementing AWS cloud-based solutions for on premise applications.
* Responsible for automating the complete project using orchestrator and deploying the stacks in multiple environments.
* Deployed AWS using Terraform on EC2 instance server and automated the complete deployment environments.
* Designed and Developed ETL jobs to extract data from salesforce replica and load it in data mart in Redshift.
* Wrote Scripts and indexing strategy for a migration to confidential Redshift from SQL server and MYSQL Database.
* Designed and setup enterprise data lake to provide support for various uses cases including analytics, processing, storing and reporting of voluminous, rapidly changing data.
* Design and implement technology solutions based on VMware products and provide support for escalated performance issues within this product suite.
* Migrated and automated cloud deployments using API's, Ansible, python and AWS Cloud Formation Templates.
* Worked on AWS data pipeline to configure data loads from S3 to into Redshift.
* Used JSON schema to define table and column mapping from S3 data to Redshift.
* Working with GIT and TFVC in Team Foundation Server and install extensions according to user requests.
* Expertise in using IAM to create and manage AWS users and groups and use permissions to allow and deny their access to AWS resources.
* Regular review and monitor each of your IAM policies to improve the security of your AWS account.
* Implementing a Continuous Delivery framework using Jenkins, Ansible, and Maven in Linux environment.
* Validating version compatibilities and the architecture design based on the application load while migrating to AZURE providing solutions for migrfate the applications from on-premises to cloud.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS nodes and Tested Playbooks on AWS instances using Python.
* Handful experience in Source control migrations to Git and TFVC on Azure Devops Server.
* Created Python Scripts to Automate AWS services which include web servers, ELB, Cloud front Distribution, database, EC2 and database security groups, S3 bucket and application configuration, this Script creates stacks, single servers or joins web servers to stacks.
* Used Cloud formation to spin up resources effectively, Creating blueprint documents and templates in Cloud formation. Orchestrated provisioning of desired resources using cloud formation.
* Implemented automation scripts for AWS API calls, wait loops, retry logic and several other operations using Cloud Formation. Achieved various operational results such as automatic rollbacks, cleanups and event logging and helpful AWS support using cloud formation.
* Used Terraform to automate, manage and provision infrastructure. Hosted webservers and load balancer for provisioning of resources to optimize the project.
* Worked with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation. Orchestrated and migrated CI/CD processes using Terraform Templates and Containerized the infrastructure using Docker, which was setup in Vagrant, AWS and VPCs. Worked with Terraform to create AWS components like EC2, IAM, VPC, ELB, Security groups and Configured RDS instances using Cloud Formations and Terraform. Authored Terraform modules for infrastructure management. Authored and published a module to the Terraform registry for enterprise customers to deploy our product inside their AWS environment.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using Ansible playbooks and has Integrated Ansible with Jenkins.
* Worked on Docker engine and Docker Machine environments, to deploy the micro services-oriented environments for scalable applications, Docker swarm to host cluster and container scheduling, Docker compose to define multiple container applications.
* Experience with chef configuration management tool, responsible for managing chef client nodes and upload the cookbooks to chef server from the workstation, Established Chef best practices approach to system deployment and managing Chef Cookbooks as a unit of software deployment and independently version controlled accordingly.
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic container service for Kubernetes(EKS).
* Configured, Automated and Deployed Chef configuration management to existing infrastructure.
* Used Ansible and Ansible tower as configuration management tool, to automate repetitive tasks, quickly deploy critical applications and proactively manage changes.
* Implemented Python code using Ansible Python API to automate cloud deployment process, Developed Python modules for Ansible customizations.
* Used Ansible playbooks to setup continuous delivery pipeline. Deployed micro services, including provisioning AWS environments using Ansible playbooks, Used Ansible to document all infrastructures into version control.
* Worked on Monitoring systems Nagios, Splunk and repository nexus.
* Configured Jenkins to create Docker image for build and performed tests on a Docker container.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Managed development team of 6 members by sharing resources and assigning goals and tasks on daily and weekly basis and reporting to project manager on daily basis.
* Implemented Redis migration for higher optimization and better performance as well as scalability.
* Worked with GIT and TFVC in Team Foundation Server.
* Hands on experience with Liquibase and Flyway too.
* Developed micro service on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Worked on AWS Kafka live stream module implementation with Kubernetes integration.
* Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling Kubernetes AWS infrastructure and micro service container orchestration.

**Environments:** Jenkins, Cloud formation, AWS, Confluence, Cloud watch, Ansible, Docker, RDS, Apache Tomcat, Maven, Weblogic, Nexus, EC2, Git, Chef, SNS, Redis, Ansible, shell/Perl, Amazon VPC, Json, PostgreSql, Bash, bitbucket, Python, Pom.Xml, Linux, Windows.

**Client: Fidelity Investments, Boston, MA Feb 2016 –Nov 2018**

**Senior DevOps Engineer / Senior Cloud Engineer**

* Worked extensively on Azure PaaS Solutions like Azure Web Apps, Redis Cache, Application insights Azure Server less Functions, Azure Stream Analytics, SQL Azure, and Azure Storage.
* Worked with different scripting languages such as PowerShell, Ruby, Groovy, Python as a part of writing scripts for the automation tasks like release processes, applications migration, and monitoring application health during migration etc.
* Monitored and analysed TeamCity build performance and metrics, and made recommendations for improvements.
* Managed EKS cluster node pools with multi-type CPU/GPU instances used for machine learning jobs.
* Worked on designing and implementing CI/CD pipelines for seashark using Jenkins and Gitlab.
* Implemented automation for deployments by using YAML scripts for massive builds and releases.
* Worked on Chef as a configuration management tool and created Chef Cookbooks and modules to automate system operations using Ruby programming language.
* Designed Puppet Modules to manage configurations and automate installation process and developed automation scripting in Python using Puppet to deploy and manage java applications across Linux servers.
* Installed, Configured, Maintained, Tuned and Supported Splunk Enterprise server. Deployed, Installed, and maintained several Splunk Add-on applications on Splunk infrastructure and various universal forwarders.
* Developed and implemented data models in Power BI to streamline data analysis and visualization processes.
* Experienced in working with Agile Methodology and was responsible for monitoring and managing the development and worked with Azure Portal to Provide IAAS resources to the client.
* Configured VMs availability sets using Azure portal to provide resiliency for IaaS based solution and scale sets using Azure Resource Manager to manage network traffic.
* Selecting the appropriate Azure service based on compute, data, or security requirements and leveraging Azure SDKs to interact with Azure services from your application.
* Worked on Azure IoT product development, duties which were involved in designing the new LoRaWan based embedded Linux hardware and software.
* Experienced on Power Shell scripts to automate the Azure cloud system creation including end-to-end infrastructure, VMs, storage, firewall rules
* Worked on service mesh like Istio for advanced service discovery of microservices running in the cluster.
* Worked with developers in mitigating issues with pipelines on Jenkins and ArgoCD
* Involved in Jira as defect tracking system and configure various workflows, customizations, and plugins for Jira bug/issue tracker integrated Jenkins with Jira, GitHub
* Implemented a Continuous Integration and Continuous Delivery (CI/CD) pipeline with Docker, Jenkins (TFS Plugin installed) and TFS, GitHub and Azure Container Service, whenever a new TFS/GitHub branch gets started, Jenkins, our Continuous Integration (CI) server, automatically attempts to build a new Docker container from it.
* Designed and implemented cloud-based infrastructure for a Seashark-powered microservices architecture.
* Administered and Monitored Visual Studio Team System (VSTS), taking backups and consolidating collections at the time of migration from one version of VSTS to another.
* Converted our staging and Production environment from a handful Azure Nodes to a single bare metal host running Docker.
* Worked on container-based technologies like Docker, OPENSHIFT and Kubernetes.
* Administer, secure, and maintain multiple Kubernetes clusters to support a global service.
* Designed and configured Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, and Security policies to provide high-secure environment for running Linux in Virtual Machines (VM’s) and applications.
* Installed Docker Registry for local upload and download of Docker images and even from Docker hub.
* Good understanding of OpenShift platform in managing Docker containers and Kubernetes Clusters.
* Integrated Docker container orchestration framework using Kubernetes by creating pods, config Maps, deployments.
* Worked with Azure Web apps, Azure Data Factory & Storage, Azure Identity & Access Management, Azure compute services Azure Media & Content delivery, Azure Networking, Azure Hybrid Integration.
* Built JenkinsX CI/CD pipeline for container builds and deployments with a GitOps controlled pipeline following devops best practices.
* Expert Knowledge in Azure cloud services, Azure storage, Azure active directory, and Azure Service Bus. Managing Client's Microsoft Azure based PaaS and IAAS environment.
* Involved in Creating and Managing Virtual Machines in Windows Azure and setting up communication with the help of endpoints.
* Implemented Azure Databricks to other Azure services (such as Azure Storage) in a more secure manner using service endpoints.
* Implemented Jenkins pipelines into Azure pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using AKS.
* Migrating an On-premises virtual machine to Azure Resource Manager Subscription.
* Created U-SQL script for transform activities and developed complex queries to transform the data from multiple sources and outputted the data into Azure Data warehouse.
* Implemented Docker to provision slaves dynamically as needed. Created and Maintained Docker files in Source Code Repository build images and ran containers for applications and testing purposes. Creating and handling multiple Docker images primarily for middleware installations and domain configurations.
* Experienced in Azure Databricks to use custom DNS and configure network security group (NSG) rules to specify the egress traffic restrictions.
* Built a user-friendly interface and [GitOps](https://www.weave.works/blog/what-is-gitops-really) pipelines that concealed the complexity of the underlying Kubernetes platform and allowed for baked-in best practices and enforcement of security policies.
* Created, Configured and Administered Jenkins servers with Master-slave configurations as needed.
* Synced the Elasticsearch Data between the data centres by using Kafka and Logstash, managing Kafka Cluster and integrated Kafka with elastic.
* Build and administrate Continuous Delivery pipelines using Git, Vagrant, Jenkins, and Groovy DSL.
* Created homebrewed alarms and trigger points in Jenkins to monitor services running in dev, stage, and production environments.
* Configured Border Gateway Protocol (BGP) to enable the connection between Data Centres and Azure cloud to exchange routing and reachability information.
* Managed Docker orchestration and Docker containerization using Kubernetes.
* Used Kubernetes to orchestrate the deployment, scaling, and management of Docker Containers.
* Wrote Ansible playbooks from scratch in YAML. Installing, setting up & Troubleshooting Ansible, created and automated platform environment setup.
* Configured servers to host Team Foundation Server (TFS) instance to setup and manage continuous integration using TF Build Service & deployed JAVA applications to JBoss and Oracle Tuxedo servers.
* Responsible for implementing containerized based applications on Azure Kubernetes by using Azure Kubernetes service (AKS), Kubernetes Cluster, which are responsible for cluster management, Virtual Network to deploy agent nodes, Ingress API Gateway, MySQL Databases and Cosmo DB for stateless storage of external data, and setup reverse proxy Nginx in the cluster.
* Used Ansible and Ansible Tower as configuration management tools to automate repetitive tasks, quickly deploy mission-critical applications and proactively manage changes.
* Designed, Planned, and implemented Azure virtual machines and managed virtual networking within Azure and connected it to on-premises environments.
* Experience with installation and configuration of Dynatrace monitoring tool. And created email alerts and threshold values using Dynatrace for our environment.
* Created Splunk/Dynatrace dashboard for application performance monitoring.

**Environment:** CI/CD tools, Azure, Agile Methodology, Azure Portal, Azure Resource Manager, Azure Data factory, ARM, Web Apps Redis, Stream Analytics, ArgoCD, SQL Azure, Azure Storage, GIT, TFS, VSTS, Bash, Python, Node JS, AngularJS, Jenkins, Kubernetes, puppet, Ansible, Docker, PowerShell, Ruby, Chef, Groovy, Python, Apache, Tomcat, Splunk and Dynatrace

**Client: HDFC Bank, India APR 2013 May 2015**

**Role: DevOps Engineer / Cloud Engineer**

* Created Splunk/Dynatrace dashboard for application performance monitoring.
* Configured AppDynamics cluster agent to monitor Azure Kubernetes Service (AKS) pod failures and restarts, node starvation, missing dependencies such as Services, Config maps and Secrets.
* Applied enforcements and safeguards on the AKS cluster by integrating Azure Policies using PowerShell in Azure DevOps.
* Delivered cloud environments as code via [Terraform](https://www.terraform.io/), operationalized Kubernetes with logging, monitoring, security, and service mesh capabilities, and built [GitOps](https://www.weave.works/blog/what-is-gitops-really)-powered continuous delivery pipelines for application deployments.Created CI/CD pipelines for .NET, python apps in Azure DevOps by integrating source code repositories such as GitHub, VSTS, and artifacts. Created deployment areas such as testing, pre-production and production environment in Kubernetes cluster.
* Migrated on-premises to Microsoft Azure by building Azure disaster recovery environment, Azure Recovery Vault and Azure Backups from the scratch using power shell script.
* Proficient in design, configure, and deploy solutions on Microsoft Azure using AZURE PowerShell Module, Azure Resource Manager (ARM) Templates, and Azure CLI while focusing on Auto-Scaling and high-availability.
* Experience in creating and deploying ARM Templates for number of applications applying the Azure stack including Web Apps, Blobs, Compute, Azure Data Factory, Function App, Resource Groups, Azure Cosmos DB, HDInsight Clusters.
* Hands on experience on Virtual Networks, Site-to-site VPNs, Network Security Groups, Load balancers, and Storage Accounts.
* Involved in process of setting up Azure DevOps platform of the organization. Created multiple projects, teams and onboarded users to the organization to different access levels such as Stakeholders, Basic, MSDN based on desired role in their team.
* Performed integration of Code Quality Analysis Techniques with SonarQube, Cobertura as well as integrated Selenium automation testcases with CI tool Jenkins. Code Coverage-Installed SONARQUBE on Jenkins server and configure with the build process for the code analysis process for better code quality and code metrics, and rapid feedback for development teams and managers. Used plugins like Global Build Stats, Multiple SCMs, Parameterized Trigger and Configuration Slicing to increase the productivity.
* Scheduled the Linux Cron jobs and Jenkins jobs for build automation. Adept in developing Perl and shell scripts for automation of the build and release process and to perform deployments to JBoss and Tomcat Web servers.
* Involved in Setting up the backup server for Jenkins and prepared disaster recovery plans for Jenkins.
* Created Docker images from scratch and customizing them as per the requirement, with working on Docker containers, Snapshots, managing Docker volumes, directory structure and removing Docker images. Setup Docker to automate container deployment through Jenkins and Worked on Docker container to create Docker images for different environments.
* Experience in Kubernetes to deploy, scale, load balance, and manage Docker containers with multiple namespace versions using Helm charts.
* Expertise in configuring the monitoring and alerting tools according to the requirements. Proficient with Prometheus and Grafana setting up alerts and deployed multiple dashboards for individual applications in Kubernetes.Responsible for writing reusable Infrastructure as a Code for mission critical application like Tier-0 and automated the provisioning of infrastructure using Terraform and maintained complicated Azure Resource Manager templates through Terraform.
* Responsible for writing Terraform modules and mentoring the peers to write consumable code for reusable modules to maintain/provision the cloud applications.
* Worked on Ansible Tower to automate repetitive tasks, quickly deploy critical applications, and proactively manage changes. Used Ansible Vault and Ansible Tower to secure sensitive data and control the access of playbooks. Worked on Ansible Tower to create projects, inventory file, Jinja2 templates and scheduling jobs along with being skillful Playbooks writer using Python SSH as the Wrapper to Manage Configurations of AWS Nodes and being able to test them on AWS instances.

**Environment:** Azure, GitHub, VSTS, Azure Artifacts, App Service Environment (ASE), Barracuda WAF, Sonar Qube Selenium, Jenkins, Docker, JBoss and Tomcat Web servers, Prometheus, Grafana, Terraform, Ansible Tower, Python, Linux, Bash Shell, Maven, CentOS, Postgres SQL, ARM