**Roop K**

**Sr. DevOps/Cloud Engineer**

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**Professional Summary**

**Over 8+ years of hands-on experience in I.T. industry in supporting, automating, and optimizing mission critical deployments in AWS, Azure, and GCP, leveraging Configuration Management, CI/CD, DevOps processes, automation, and system administration. Experience with networking functionalities and deployment operations along with monitoring skills with ease to fit in a dynamic work environment.**

* Proficient in **migration** of on-premises infrastructure to cloud, leveraging expertise in cloud technologies and methodologies, resulting in increased scalability, reliability, and cost savings for the organization.
* Technical expertise in facilitating Cloud Infrastructure Management in organization level, experienced in AWS Services like **EC2, Auto Scaling, ECS, S3 bucket, EBS, VPC, Route 53, IAM, Amazon RDS, Cloud Watch, Cloud Formation, SQS, EKS, AWS Beanstalk.**
* Proficiently managed Amazon instances, ensuring optimal performance through **AMI** utilization and adeptly administered and monitored instances using **Amazon CloudWatch**. Demonstrated expertise in configuring custom users and groups via the **Amazon IAM** console.
* Constructed templates for AWS infrastructure as a code using **Cloud Formation Templates** to build staging and production environments with required configurations and setting up directory service for integrating with other AWS services.
* Experienced in deploying, managing, and maintaining applications and services on **Azure**, including utilizing services such as **VMs, Azure Storage, AKS, ARM, App Insights, Azure SQL Database,** and **Azure Functions**, etc. for scalable and secure cloud computing solutions.
* Hands on experience on backup and restore Azure services and design and configure **Azure Virtual Networks**, subnets, Azure network settings, DHCP address blocks, DNS settings, security policies and routing.
* Implemented Infrastructure as Code principles to create consistent and reliable environments. Skilled in using Azure services to build and manage automated pipelines, enabling rapid and reliable application delivery.
* Working experience with cloud infrastructure of **GCP** in creating AMI virtual machines on **Compute Engine, Cloud Storage, Cloud Armor, Cloud DNS, Cloud NAT, VPC.**
* Proficient in deploying, managing, and scaling applications and services on GCP, including utilizing services such **as Compute Engine, Kubernetes Engine, Cloud Storage,** and **BigQuery** for data storage and analysis.
* Experienced in writing **Terraform** modules for designing and deploying infrastructure in multiple cloud platforms like **AWS, Azure** and **GCP.**
* Expertise in **Terraform manifests** and **modules** designing to build, modify, and scale infrastructure across cloud platforms, achieving greater agility, repeatability, and cost-effectiveness.
* Utilized **Terraform** remote backends and state locking mechanisms to ensure collaborative infrastructure development across distributed teams.
* Experienced in using **Ansible** to manage web applications, configuration management and task automation along with orchestration and used **Ansible galaxy** which provide roles used for simplifying infrastructure.
* Extensively worked on **Docker** based **container deployments** to create environments for dev teams and containerization of environment’s delivery for releases. Worked on **Container management using** Docker by writing Docker files and set up the automated build on Docker.
* Integrated and managed **Twistlock** solutions to ensure comprehensive vulnerability assessments, compliance enforcement, and runtime protection within dynamic containerized environments.
* Extensively worked with **Kubernetes** for scheduling, deploying and managing **container replicas** onto a **node** **cluster** and for building run time environment of the CI/CD system.
* Well-versed in Kubernetes, Helm charts and Istio service mesh. Proficiently designed, deployed, and managed scalable microservices architectures using **Helm charts** for streamlined packaging and release.
* Implemented **Istio** for advanced traffic management, observability, and security, ensuring robust and resilient communication within complex distributed systems.
* Designed, implemented, and managed containerized application platforms using **OpenShift**, including cluster setup, deployment, and maintenance.
* Responsible to create and maintain **CI/CD** pipelines to enable automated building, testing, and deployment of software applications and services on cloud platforms which involve tools such as **Jenkins, Azure pipelines, GitLab.**
* Skilled in utilizing leveraging tools such as **Jenkins, Travis CI, Maven, npm, YARN** and **GitLab, CI/CD** to automate and enhance build, test, and deployment workflows.
* Proficient in implementing robust security measures within CI/CD pipelines, leveraging tools such as **Fortify, SonarQube, Veracode** and **Twistlock for Docker Security Scanning**. Dedicated to ensuring the integrity and compliance of software deployments through proactive vulnerability assessment and remediation.
* Skilled in implementing and managing secure storage solutions like **HashiCorp Vault** and **Azure Key Vault** to protect credentials, secrets, and encryption keys. Committed to ensuring data confidentiality and maintaining the highest levels of security across the development and deployment lifecycle.
* Profusely worked on different version control tools like **GIT** and **Bitbucket** for branching, merging the changes and source code management client tools like **Git GUI** and other command line applications.
* Utilized leverage tools such as **Terraform, Ansible,** and **CloudFormation** to streamline the migration process, from infrastructure provisioning to application deployment. Expertly navigate challenges, optimize resource allocation, and ensure a secure and efficient migration while maintaining operational excellence.
* Implemented **DevSecOps** practices, seamlessly merging development, operations, and security processes. Expert in automating security testing, vulnerability scanning, and compliance checks to deliver secure and resilient applications while maintaining agility and continuous delivery
* Configured **Grafana/Splunk/Dynatrace/NewRelic/Nagios** server & installed Plugin on each running host machine as a client and also experienced in administration, configuration of all these tools and monitoring using them.
* Proficient in leveraging **APM** tools like **AppDynamics, Dynatrace, NewRelic** to proactively identify bottlenecks, optimize application performance, and ensure seamless end-user experiences.
* Expert in writing scripts like **Power Shell, YAML, Bash/Shell, Python** for automation tasks like the build and release process.
* Specialized in Agile driven software delivery by combining Agile principles with DevOps practices for delivering value to stakeholders.
* Proficient in orchestrating end-to-end **database migration** projects, from planning and schema changes to data validation and post-migration optimizations, ensuring minimal downtime and preserving data integrity.
* Experienced as a system administrator with a strong background of networking, **Linux** and **Windows** administration.
* Utilized **ServiceNow, JIRA, Azure Boards,** and **Confluence** to facilitate effective issue tracking, project planning, and documentation. Adept at creating streamlined processes that bridge development and operations teams, ensuring transparent and productive collaboration.

**Technical Skills:**

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|  **Scripting Languages**  | Python, Ruby, Bash, shell, Power shell, JSON, Groovy, YAML  |
| **Version control tools**  | Git, Bitbucket, TFS, SVN  |
| **CI/CD & Build Tools**   | Jenkins, Gitlab, Bamboo, Maven, ANT, Azure DevOps |
| **Automation Tools**  | Ansible, Terraform, Chef, Puppet  |
| **Containerization Tools**  | Docker, Kubernetes, EKS, AKS, OpenShift  |
| **Artifact/Repository Management Tools**   | Nexus, JFrog, ECR, ACR, DockerHub |
| **Networking/protocol**  | TCP/IP, DNS, FTP/SFTP, HTTP/HTTPS, LAN, WAN, NIS, NFS, NDS, SMTP  |
| **Infrastructure Tools**   | Terraform, CloudFormation, Azure Resource Manager, HashiCorp Packer  |
| **Database**   | Oracle, MySQL, MongoDB, AWS RDS, Amazon Aurora, Cloud SQL, Microsoft SQL Server, Azure SQL  |
| **Testing & Scanning**   | SonarQube, Forseti Security, Cloud Armor, Twistlock, Fortify |
| **Vaults**   | Hashicorp Vault, Azure key Vault, Azure Recovery Services Vault  |
| **Monitoring Tools**  | Splunk, Nagios, CloudWatch, ELK, Prometheus, Grafana  |

**Work Experience**

**Client: AllianceBernstein L.P., New York, NY. October 2022 – Present.**

**Role: Sr. Cloud/DevOps Engineer**

**Responsibilities:**

* Designed highly available, cost effective and fault tolerant systems using multiple AWS EC2 instances, Auto Scaling, AWS Elastic Load Balance and AWS Amazon machine image (AMIs), DNS mapping with subdomain using Route 53.
* Managing various operations on AWS cloud resources, including EC2 instances, S3 buckets, VPCs and ELB. Providing support for numerous AWS implementations including EC2 and all RDS offerings, with a focus on provisioning, implementation, migration, and ongoing administration and monitoring.
* Designing and implementing AWS EKS Cluster using Terraform from scratch to implement a fully working EKS Multi Node Cluster.
* Maintaining the user accounts (IAM), Cloud SQL, Cloud DNS, VPC, RDB, Cloud Datastore Cloud Bigtable, SQS and Cloud Pub/Sub services in Google cloud platform.
* Working on Google Cloud Platform (GCP) services includes cloud storage, cloud SQL, Compute Engine, cloud load balancing, stack driver monitoring, Cloud Armor, and cloud deployment manager.
* Building and configuring a virtual data center in the Google cloud platform to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Google Cloud Load Balancing.
* Working with Terraform Template key features such as Infrastructure as a Code, Execution plans, Resource Graphs, Change Automation and extensively used Auto Scaling launch configuration templates for launching Amazon EC2 instances while deploying microservices.
* Utilizing Ansible Playbooks to setup and configure Continuous Delivery Pipeline and Tomcat servers.
* Installing workstation, writing Playbooks and uploading them to Ansible-server, managing On-prem OS/Applications/Services/Packages using Ansible.
* Authoring Ansible Playbooks using YAML scripting and Puppet manifests using DSL for provisioning Nginx, Apache Spark, Apache Web servers, and Tomcat servers.
* Involved in creating AWS AMI, have used HashiCorp Packer to create and manage the AMIs.
* Working on creating AMIs using Ansible Playbooks for provisioning instances using Terraform. Working on Ansible tower to develop and automate server configuration for deployments into multiple server environments.
* Working with Terraform templates for automating VPCs, ELBs, security groups, SQS queues, S3 buckets, and continuing to replace the rest of the infrastructure using YAML, Hashicorp configuration language and converting the existing AWS infrastructure to serverless architecture with AWS.
* Deployed Lambda and Kinesis using terraform templates.
* Converting existing Terraform modules that had version conflicts to utilize cloud formation during Terraform deployments to enable more control on missing capabilities.
* Utilizing Jenkins pipelines to orchestrate the building of all microservices, pushing them to the Docker registry, and subsequently deploying them to Kubernetes. Creating pods within Kubernetes and effectively managing their lifecycle.
* Responsible for setting up and managing CI /CD pipelines for deploying containerized applications to EKS clusters which involve using tools such as Jenkins, GitLab, or AWS CodePipeline to automate the build, test, and deployment processes, and integrating them with EKS for seamless application deployments.
* Deploying Docker containers in Kubernetes cluster and AWS ECS.
* Engaging with Docker Registry, Docker Machine, Docker Hub, and the creation, attachment, and networking of Docker containers. Also involved in container orchestration using Kubernetes, including clustering, load balancing, scaling, and service discovery utilizing selectors, nodes, and pods.
* Working on containerization of application using docker file by either importing image or creating a container with custom configuration.
* Maintaining Single and Multi-container pods storage inside a node of OpenShift (Kubernetes) cluster.
* Implementing continuous integration using Jenkins. Configuring security to Jenkins and added multiple slaves for continuous deployments.
* Integrating Jenkins with various tools like Maven (Build tool), Git (Repository), SonarQube (code verification), Nexus (Artifactory), HashiCorp Vault (for secrets) and implementing CI/CD automation for creating Jenkins pipelines programmatically architecting Jenkins Clusters.
* Installing Jenkins/Plugins for GIT Repository, setting up SCM Polling for Immediate Build with Maven and Maven Repository (Nexus Artifactory) and deployed applications using custom ruby modules through Puppet as a CI/CD Process.
* Maintaining the version control system (branching model, security), creation and maintenance of build definitions\scripts, and the setup of work item areas and iterations using GIT.
* Developing Shell/Python Scripts for automation purpose. Ability to build deployment, build scripts and automated solutions using various scripting languages such as Shell, PowerShell, Python, Ruby.
* Building and deploying Java code through Jenkins and Code coverage analysis using SonarQube. Run quality checks using SonarQube & upload it to Nexus repository.
* Utilizing Bitbucket and integrated it to Jenkins for automating the builds. Implementing headless protocol for committing, pushing, and pulling changes to JFrog repository from Jenkins.
* Using tools like Prometheus, Grafana, or the ELK stack to implement monitoring and alerting solutions to guarantee system performance, availability, and security.
* Improving operational and business insight, proactive monitoring, and troubleshooting with the implementation of log management and analytics.
* Managing and creating autoscaling groups on top of AWS instances and managed configuration and policies to CloudWatch Alarms and SNS messages by using Forseti.
* Configuring monitoring and alerting tools such as AWS CloudWatch, CloudTrail, Dynatrace, Nagios, Splunk Enterprise, and SNMP monitoring for VPN connections.

**Environments:** AWS, Google Cloud Platform (GCP), Terraform, Ansible, Docker, Kubernetes, OpenShift, Jenkins, GitLab, GIT, Maven, Splunk, Grafana, Prometheus, ELK stack, Cloud Watch, Cloud Trail, Dynatrace, Nagios, Forseti, Python and Java Scripting.

**Client: North Dakota Information Technology Department, Bismarck, ND. January 2022 – September 2022**

**Role: Azure DevOps Engineer**

**Responsibilities:**

* Created and maintained containerized micro services and configuring/maintaining private container registry on Microsoft Azure for Hosting Images and using Windows Active Directory.
* Involved in installation, configuration and designing of Active Directory, GPO, LDAP, Group Policy, DNS, DHCP, FTP in windows server 2008 R2 and 2012.
* Developed a comprehensive migration strategy for a complex multi-tier application, incorporating Azure services such as Azure Virtual Machines, Azure SQL Database, and Azure App Service, resulting in improved scalability and performance.
* Implemented Azure Monitor and Azure Advisor to continuously monitor resource utilization, identify potential bottlenecks, and optimize resource allocation post-migration.
* Deployed Azure SQL DB with GEO Replication, Azure SQL DB Sync to standby database in another region & fail over configuration.
* Created CI/CD Pipelines in Azure DevOps environments by providing their dependencies and tasks. Also created Azure key-vault to store all the credentials f-or SQL databases and API keys.
* Implemented and managed continuous integration and continuous deployment (CICD) pipelines using PCF's integration with popular such as Jenkins, and GitLab.
* Built Azure services by using Terraform as Infrastructure as a code.
* Developed Terraform templates to build, change and version Infrastructure as Code (IaC) using Azure as provider and launched multi-layered resource groups to be provisioned and configured with Terraform template.
* Wrote Ansible scripts to ensure OpenShift container platform works in sync with confidential data system records.
* Created Docker compose file using YAML for deploying MEAN stack (MongoDB, Express, AngularJS, Node JS) applications onto Docker containers before deploying them into production environment.
* Building and maintaining Docker container clusters managed by Kubernetes, Linux, Bash, GIT, Docker, on Azure. Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test, deploy.
* Designed, implemented, and managed containerized application platforms using OpenShift, including cluster setup, deployment, and maintenance.
* Created and automated the Jenkins pipeline using pipeline groovy script for the applications.
* Utilized Jenkins 2.0 and pipelines which helped us drive all microservice builds out to the docker registry and then deployed it to Kubernetes.
* Integrated Docker container orchestration framework using Kubernetes by creating pods, Config Maps and deployments. Worked on Kubernetes and Docker images to provide platform as service on private and public cloud in VMware Cloud.
* Kubernetes was used to manage containerized applications utilizing its nodes, ConfigMaps, selector, Services, and application containers that were deployed as Pods.
* Automated SQL scripts Deployment to staging and production Databases with Bitbucket/GIT.
* Data from On-Premise SQL Database servers to Azure SQL Database servers was sent by designing the Azure Data Factory Pipelines using the Azure Data Factory Copy tool and Self-Hosted Runtimes.
* Snapshot releases were deployed using a Maven-based management system, and artifacts had been uploaded to Nexus so that they could be shared among the projects. Built and deployed artifacts such as WAR using build tools like Maven from source code.
* Managed Azure Container Registry to store private Docker images, which are deployed and Azure pipelines to build, test, and deployments. Azure Monitor to collect metrics and logs. Configured Monitor to track performance and maintain security, and used Splunk tool to collect metrics, queries.
* Wrote PowerShell scripts and Azure Automation runbooks focused around automating daily tasks and quickly implementing time intensive requirements.
* Created Azure Web application projects, updated and deployed ASP.NET Web Apps, Node.js using Visual Studio, SCM like GitHub and Azure Resource Manager.

**Environments:** Azure, Azure DevOps, Terraform, Ansible, Docker, Kubernetes, OpenShift, Jenkins, GitLab, GIT, Maven, Azure Monitor, Splunk, Java, .Net, Database, Windows, Node.js, Visual Studio.

**Client: Hartford HealthCare Corporation, Hartford, CT. July 2020 – December 2021.**

**Role: Cloud/DevSecOps Engineer**

**Responsibilities:**

* Worked on provisioning, configuring, and troubleshooting of various AWS cloud services like EC2, S3, RDS, ELB, EBS, VPC, Route53, Auto scaling groups, Cloud watch, Cloud Front, IAM.
* Identified and resolved the connectivity issues of EC2 instances (Windows/Linux) with EC2-Rescue tool.
* Worked on maintaining and auditing the infrastructure security including configuring the Cloud Trial logs to encrypted S3 bucket and using the other services including AWS inspector, AWS trusted advisor, AWS Guard-Duty, Config etc.
* Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Configured 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.
* Converted DevOps methodologies in to DevSecOps model by introducing security/vulnerability scans different phases of DevOps like clear text password scan during the build and packaging phase of application and on the other hand responsible for implementing pre provisioning scans and post provisioning scans for IaC by adopting tools like terraform enterprise (sentinel) and Inspect framework for AWS cloud resource validations.
* Leveraged software security tools such as Fortify and other similar solutions, to ensure code quality and minimize security risks during the development process.
* Utilized Terraform modules to start the EC2 instances from the AWS SMS-generated AMIs into the client's infrastructure, and Jenkins integration to fully automate the process.
* Developed and maintained automation scripts for OpenShift deployments using tools like Ansible and Terraform.
* Disaster Recovery Plan was architected using Lambda functions and Cloud Formation templates in a multi-regional environment. In the event of a disaster, Route53 was used to redirect internet traffic to another region.
* Developed AWS Cloud Formation templates to create custom sized VPC, EMR, Dynamo DB, subnets, EC2 instances, ELB and security groups.
* Written Chef Cookbook, recipes to automate installation of middleware infrastructure like Apache tomcat, JDK and configuration tasks for new environments, etc., and reused and modified same Chef Recipes to create a deployment directly into Amazon EC2 instances.
* Implemented groovy shared libraries in Jenkins for making the Jenkins process easily and also implemented the webhooks.
* Configuring Jenkins as a common CI engine to build and promote applications to Dev, QA and Staging to Linux environments.
* 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.
* Created repositories and managed them among users using GITLAB as an SCM tool. Complete project was stored in the repository.
* Worked on integrating GIT into the Continuous Integration (CI) environment along with Jenkins.
* Written Pom.xml and Build.xml using software build tools like Apache Maven and Apache Ant, and managed and configured the Nexus repository for Maven builds.
* Configured and set up ELK stack (Elasticsearch, Logstash, and Kibana) to collect, search and analyze log files across the servers and monitored the servers using CloudWatch and ELK for Network and Log Monitoring.
* Created monitoring dashboards for Consul and Linked on Grafana giving the Influx dB DNS as a data source. Used regex syntax to create templating variables in Grafana.
* Created the trigger points and alarms in Cloud Watch based on thresholds and monitored logs via metric filters.
* Utilized Twistlock, to secure and manage the containerized application and microservices, resulting in increased system protection and compliance with industry standards.
* Utilized Python scripts to update content in the database and manipulate files. Automated Email process, downloading and uploading the files through Perl Scripting.
* Worked on deploying WAR, JAR, and EAR files in Apache Tomcat, WebLogic, WebSphere, JBoss application servers in Linux/Unix/Windows environment.

**Environments:** AWS, GCP, Terraform, Cloud Formation, Template, Chef, OpenShift, Jenkins, GitLab, GIT, Maven, ANT, ELK, Cloud Watch, Grafana, Twistlock, Python, Perl scripting, Linux.

**Client: New Haven Bank, New Haven, CT. June 2019 – June 2020.**

**Role: Site Reliability Engineer**

**Responsibilities:**

* Supported dozens of Amazon AWS implementations, ensuring high availability and optimal performance for cloud-based systems.
* Collaborated closely with development teams to architect and deploy Amazon AWS implementations, utilizing a range of services including Amazon EC2 (IaaS) and Amazon RDS (DBaaS) offerings.
* Managed the entire lifecycle of cloud services, from provisioning and implementation to migration and heterogeneous conversions, ensuring seamless administration and ongoing monitoring support.
* Specialized in Microsoft SQL Server, Oracle, MySQL, MariaDB, PostgreSQL, and Amazon Aurora databases, guaranteeing their optimal performance, availability, and reliability.
* Configured a robust virtual data center within Amazon AWS to host the Enterprise Data Warehouse, implementing Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, and Elastic Load Balancer.
* Played a crucial role in the architectural design and configuration of systems, optimizing resource allocation for improved system performance and minimizing potential points of failure.
* Spearheaded the creation of custom Docker container images, managing their tagging, pushing, and deployment, thus streamlining the entire application lifecycle.
* Successfully deployed Kubernetes clusters on top of Amazon EC2 Instances using KOPS (Kubernetes Operations), harnessing Kubernetes' power to manage and orchestrate containerized applications.
* Implemented HELM Charts for Kubernetes cluster management, ensuring consistency and reliability across multiple deployments.
* Designed, implemented, and maintained robust project workflows using Jenkins as a CI/CD tool, enabling automated builds, tests, and deployments.
* Crafted Bash/shell scripts to monitor system resources and automate routine maintenance tasks, leading to proactive identification and resolution of potential issues.
* Leveraged advanced monitoring tools such as Amazon CloudWatch and the ELK (Elasticsearch, Logstash, Kibana) stack to comprehensively monitor OS metrics, server health checks, and file system usage.
* Collaborated with the team to define alert thresholds and response plans for critical incidents, ensuring rapid incident response and minimizing downtime.
* Worked on installation, maintenance, administration, and troubleshooting of Linux and Windows Operating Systems.
* Devised and scheduled Cron jobs for systematic updates and maintenance tasks, ensuring consistent and reliable system operation.

**Environments:** AWS, Cloud Formation Template, Docker, Kubernetes, Jenkins, GIT, Maven, Cloud Watch, ELK, Python, Bash, Ruby, PowerShell, Linux and Windows.

**Client: Cyient Ltd., Visakhapatnam, India. November 2017 – May 2019.**

**Role: Build & Release Engineer**

**Responsibilities:**

* Subversion branching, merging, and tagging were created and maintained across production releases, with builds performed using continuous integration and maven build scripts.
* Managed and controlled Source Code Repository by using GIT, SVN and TFS.
* Worked on WebLogic Server configuration, maintenance, deployment and troubleshooting in Linux environment.
* Responsible for administration, configuration, monitoring, and troubleshooting of issues related to WebLogic server and Apache HTTP server on Linux platforms.
* Worked on Bamboo Pipelines for offline infrastructure projects. Deployed builds and apps on Bamboo. Organized Nodes, Agents, and Tokens Build tools setup, Repository integration and several other Administrator modules.
* Configured Jenkins to retrieve code from SVN and GIT, analyze using SonarQube/Sonar Scanner, build using Maven and ANT, perform Selenium tests using TestNG, and store successfully built artifacts in Nexus.
* Integrated GIT into Jenkins to automate the code check-out process used Jenkins for automating Builds and Automating Deployments.
* Utilized Python libraries for build and release automation, such as Jenkins, Travis CI, and CircleCI.
* Implemented continuous integration web hooks and workflows around Jenkins to automate the Dev test deploy workflow around Puppet codebase.
* Implemented Puppet master, client and wrote scripts to deploy applications on Dev, QA, production environment.
* Developed scripts using BASH and Batch files for Automation of Activities and builds.
* Created build acceptance test-cases based on Perl.
* Create and maintain software packages in different formats (e.g., RPM, DEB, tarballs) suitable for distribution on Linux platforms.
* Manage artifact repositories (e.g., Nexus, Artifactory) to store and version control build artifacts.
* Coordinate and manage software releases, including versioning, changelogs, and release notes.
* Ensure proper communication with stakeholders about release timelines and contents.
* JIRA was used for bug ticket creation, storyboarding, and pulling reports from the dashboard.
* Worked with Windows, Linux, and AWS teams to resolve issues and plan for infrastructure changes.
* Provided documentation of solutions for VMWare, Windows (Hyper-V), Virtual Box and Linux and AWS teams.

**Environments:** Puppet, Jenkins, Bash, Perl, Nexus, Linux, Windows, SVN, GIT, Bamboo, TFS, Maven, ANT, SVN.

**Client: Fluentgrid Limited, Visakhapatnam, India. September 2015 – October 2017.**

**Role: System Administrator**

**Responsibilities:**

* Automated repetitive tasks using Perl and Shell Scripting.
* Written Perl/Shell scripts for deployments to WebSphere Application Servers.
* Created and maintained user accounts in Red Hat Enterprise Linux (RHEL)and other operating systems
* Configuration of NIS, DNS, NFS, SENDMAIL, LDAP, TCP/IP, Send Mail, FTP, Remote access Apache Services on Linux & UNIX Environment.
* Configured network printers and installed client/server applications, defined, and set up network protocols, Network File Services (NFS), and Network Information Services (NIS).
* Created Linux Virtual Machines using VMware Virtual Center, creating VM Templates, and troubleshooting all Virtualization related issues.
* Established non-IP point-to-point network connections that linked cluster nodes directly, providing an alternate heartbeat path for a cluster that utilized a single TCP/IP-based network.
* Involved in design, configuration, installation, implementation, management, maintenance, and support for the Corporate Linux servers RHEL 4.x, 5.x, SLES 9, CENTOS 5.x.
* Handled the VMware solutions to support multiple storage connectivity options such as FC-SAN, iSCSI, NFS (NAS) and internal storage. Installed, configured and maintained the Linux servers and workstations.
* Custom build of Windows 2003 and Windows 2008 servers which includes adding users, SAN, network configuration, installing application related packages, managing services.
* Creating and managing the user accounts, building physical and virtual servers including domain controllers, SQL servers, DNS, DHCP, print servers, files servers, application servers, VMware vSphere/ESXi, Exchange 2010/2003, Windows 2003, Windows 2008 R2, Level 3 trouble ticket escalation.
* Looked over different servers and provided support to various applications in Red Hat Enterprise Linux, as well as on Windows environment.

**Environments:** Perl, Shell scripting, Linux, Windows.