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**Lead /DevOps/ Cloud Engineer**

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**ABOUT ME**

Experienced Lead DevOps and Cloud Engineer with over 13 years of successful project deliveries in e-commerce, banking, financial, and other domains. Specialized in cutting-edge DevOps and cloud technologies, I offer exceptional communication, interpersonal, analytical, team management, and leadership skills

**EXPERTISE**

* Displays technical expertise, Leadership and oversight of **CICD** automation, implementation, release planning, process automation, risk, quality assurance and software delivery.
* Worked as Technical SME, Team Lead for a team of engineers.
* Expertise in various aspects of the software development life cycle (**SDLC**), such as **Analysis**, **Planning**, **Developing**, **Testing**, **Implementing**, and Post-**Production** Analysis
* Experienced with Multi-Cloud environments **Microsoft** **Azure** and **AWS Certified Solutions Architect**, with extensive experience in cloud services, encompassing architecture, design, deployment, optimization, scalable and management and implementing resilient cloud solutions.
* Experienced with AWS **VPC**, **EC2**, **RDS**, **S3**, **Lambda**, **CloudFormation**, **ECS**, **ELB**, **CloudWatch**, **Elastic** **Beanstalk**, **CloudWatch**, **ELK** **Stack**, **IAM**, **Security** **Groups**, **Cost** **Optimization**, **Auto scaling,** **Disaster** **recovery** etc.
* Experienced in configuring **Virtual Private Clouds (VPC)** and networking them, installing infrastructure on fresh AWS systems, automating the transfer of current **infrastructure** to **AWS Cloud platforms** using **Terraform,** and **CloudFormation templates**, and installing new **infrastructure on AWS systems.**
* Configured and managed various **AWS Services** including **EC2, RDS, VPC, S3, Glacier, Cloud Watch, Cloud Front, and Route 53,** and was involved in **Application Migrations** and **Data migrations** from **On-premises** to **AWS Cloud**.
* Configured **Elastic Load Balancers** with **EC2** Auto Scaling groups, optimizing volumes and **EC2 instances** and creating multi**-**AZ VPC instances, creating snapshots and AMIs of the instances for backup and clone instances
* Experienced in Azure Services such as **Azure storage, IIS, Azure Active Directory (AD), Azure Resource Manager (ARM), Blob Storage, Azure VMs, Azure Functions, Azure Service Fabric, Azure Monitor, Azure Service Bus.**
* Designed and deployed **Microsoft Azure solutions** across a variety of cloud models like **SaaS, PaaS, IaaS**, and integrated on-premises and on-demand workloads with the **Azure** Public Cloud and deployed **Azure IaaS virtual machines (VMs)** and **Cloud services (PaaS role instances)** into **secure VNets** and **subnets.**
* Expertise in configuration management tools such as **Ansible**, **Terraform**, and **AWS** **CloudFormation** for infrastructure as code (IaC) implementation.
* Experienced with containerization technologies, including **Docker** and **Amazon** **ECS**.
* Proficient in implementing and maintaining DevOps best practices to streamline software development and deployment.
* Experienced in a range of CI/CD tools, including **Jenkins**, **CodePipeline**, and **CodeDeploy** for automated and efficient software delivery.
* Skilled in **Agile** methodologies, particularly Scrum, to facilitate collaborative and iterative project management.
* Experienced with version control systems, including **Git**, **Bitbucket**, and **AWS** **CodeCommit**, for code collaboration and management.
* Competent in setting up and utilizing monitoring tools like **Nagios**, the **ELK stack** (**Elasticsearch**, **Kibana**), **Grafana**, and **Splunk** for proactive system monitoring and troubleshooting.
* Proficient in container orchestration solutions, including **Kubernetes**, **OpenShift** for container management and scaling.
* Highly experienced with installing, executing, and working with **Docker containerization** tool and used **Docker** to run different software packages on containers to improve the **Continuous Delivery** framework.
* Expertise in **Kubernetes** to automate the operations of **application** containers across **clusters** of **hosts** and schedule**,** deploy, and manage **Kubernetes** objects and controllers onto **cluster nodes**.
* Implemented a production-ready, highly available, fault-tolerant **Kubernetes** infrastructure. Working on **Scheduling**, **deploying**, and managing container replicas on a node cluster using **Kubernetes**
* sUsed **HashiCorp** Vault for securely managing and storing sensitive information, such as **secrets** and **credentials**. It allows you to **encrypt, store,** and **manage sensitive information** like **passwords, encryption keys, and certificates**, and it can also be used to generate and manage dynamic **credentials**, such as **temporary AWS access keys.**
* Design and implement scalable enterprise monitoring systems by applying **continuous integration**/**delivery** concepts and perform **maintenance** and **troubleshooting** of our enterprise **Redhat OpenShift systems** and work to continuously improve speed, efficiency, and scalability of **OpenShift systems**
* Involved in working with **Puppet** and developed/managed **Puppet** manifest for automated deployment to various servers and managed **Puppet Master**, **Agents** & **Databases**.
* Highly skilled with **Ansible** to automate the process of **deploying/testing** the new build in each environment (**Dev, Test, and Production**), setting up a new node**,** and configuring machines/servers using **Ansible playbooks**.
* Exposed to **Knife** commands in **Chef** to manage nodes, **Cookbooks, Chef Recipes, Chef attributes,** and **Chef Templates** and created **cookbooks** comprising all resources, templates, and attributes by using **Ruby** scripts.
* Experience in integrating code quality tools in **CI/CD (continuous integration and deployment)** pipelines such as **SonarQube**, **Veracode,** and Software source code vulnerability Analysis using **Black duck**, **Veracode**, and **HP-Fortify**.
* Extensively worked on **Spark** using **Scala** on the cluster for computational (analytics), installed it on top of Hadoop performed advanced analytical applications by making use of Spark with Hive and SQL/Oracle.
* Experienced in designing and implementing high-availability (HA) architectures for critical systems to ensure uninterrupted service.
* Experience with setting up and configuring **TravisCI, GitLabCI, Argo CD, Jenkins X, and Flux CD** for **continuous integration** and **continuous delivery (CI/CD)** of projects and automate the building, testing, and deployment of code.
* Experience in handling central as well as distributed **version control** systems for branching, tagging and maintaining versions using **SCM** tools like **Git, GitHub, GitLab, and Bitbucket.**
* Used **Splunk, AppDynamics, Dynatrace**, **Nagios, CloudWatch, Nagios, ELK** Stack and configured **Splunk** to monitor applications deployed on the server by analyzing the server log files and applications and worked on **alerts** in **Splunk**.
* Experience in managing relational databases and used **to insert, update,** and **query data** in a structured format like SQL databases including **MySQL, PostgreSQL, Microsoft SQL** Server, and **Snowflake**
* Skilled in serverless architectures, with expertise in **AWS Lambda**, to build scalable and cost-effective applications without managing traditional servers.
* Experienced with **WebSphere**, **WebLogic**, **Hybris** and **Tomcat** application servers
* Experienced with setting up Release flows using Digital.ai (XL Release) for tracking and execution of release plans from code drop to end user.
* Implemented **OpenStack** solutions, including compute, network, and storage resources, to meet project-specific requirements and also collaborated with development teams to deploy applications on the OpenStack platform using automation tool Ansible
* Experienced in building & deploying JAVA, .NET, Node.js, Python, Informatica, AutoSys applications using **MAVEN, Gradle**, **ANT, MsBuild and In-build pipelines**.
* Evaluated various middleware solutions to meet integration needs between different **cloud** products and **cloud-to- on-premise** solutions. Implemented **MuleSoft ESB as middleware** and **Apache Kafka for messaging**.
* Experienced in scripting languages like **Python**, **Groovy**, **Bash** and **Shell**
* Proficient in using windows and Linux environments.
* Strong interpersonal and communication skills and the ability to work effectively 24x7 on call support.
* Experienced with **IBM UrbanCode – uBuild & uDeploy**.
* Acknowledge on with Azure **Virtual Machines**, **Azure SQL Databases**, **Azure Functions**, **Azure Kubernetes Service (AKS)**, **Azure DevOps**, **Azure Resource Manager templates**, **Azure Monitor**, etc.
* Mentor, SME, Technical Automation Blogs writer in confluence,

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| Operating Systems | Window, Linux |
| Public Cloud Technologies | AWS, Microsoft Azure |
| AWS Cloud Services | IAM, VPC, EC2, S3, EBS, ELB, Route 53, SNS, CloudFront, SNS, ECS, EKS, Auto Scaling (ASG), CloudWatch, CloudFormation, Elastic Beanstalk |
| Azure Services | Azure App services, IIS, Azure AD, ARM, Blob Storage |
| Configuration Management Tools | Ansible, Chef, Puppet |
| Containerization tools & IaC | Docker, Kubernetes, OpenShift, Terraform |
| Automation Tools (CICD) | CloudBees Jenkins, IBM Urban Build & Deploy, XL Release, Jfrog Artifactory, SonarQube, Bitbucket |
| Build & Testing Tools | Maven, Ant, Gradle, MS Build, JUnit, NUnit, xUnit |
| Monitoring and bug tracking Tools | Nagios, CloudWatch, Splunk, Grafana, Prometheus, Confluence, Jira |
| Web/Application Servers | Apache Tomcat, Web Sphere, Hybris, JBOSS, Nginx |
| Databases | Oracle DB, MySQL |
| SCM/Version Control Tools | GIT, GitHub, GitLab, Bitbucket, SVN, CVS, Perforce, |
| Scripting | Shell, Python, groovy |

**CERTIFICATIONS:**

* Microsoft: Azure Fundamentals (Certification Number: I240-6670)
* AWS Certified Solutions Architect - Associate (Validation Number: 116KWZW2XBE1QT9J)

**Client: Centaurus Technology Partners (Full time)**

**Role: Lead DevOps / Cloud Engineer**

**Duration: August 2023 – Present**

* Went through Knowledge Transition period and coordinated with offshore team for KT.
* Created SOP documents as per current environments and publish for the support.
* Setup CloudWatch logs on AWS resources and created EC2 instances, updated security group and IAM policies.
* Supported AWS cloud instance, which included management and configuration of various AWS services.
* Created S3 bucket ad updated the bucket policies, versioning and lifecycle. Setup static web content on S3 bucket.
* Created and setup VPC, IGW, subnets and Route table on AWS and set up VPC peering.
* Design & configure AWS Code Pipeline, CodeBuild and CodeDeploy by creating Cross-Account Policies & Roles on IAM
* AWS Multi Factor Authentication in IAM

**Client: Bank Of America (Full time)**

**Role: Lead DevOps Engineer**

**Duration: Feb 2016 – July 2023**

**Project: AWS Cloud Migration**

**Responsibilities**

* Design AWS Cloud Formation templates to create customized VPC, subnets, Route tables, NAT gateway, NACL’s, Security Groups and EC2 instances as per the design documents.
* Design and configure Cross-Account deployments using AWS CodePipeline, CodeBuild and CodeDeploy by creating Cross-Account Policies & Roles on IAM
* Worked on AWS cloud services such as VPC, VPN, EC2, ELB, IAM, S3, auto scaling, CodeDeploy, CodeCommit, SNS, SQS, RDS, Lambda, CloudFormation, Route53, Elastic Beanstalk, custom monitoring with cloud watch.
* Developed automation to deploy application code from bitbucket to AWS resources such as EC2, lambda in multiple environments like Dev, QA, and Production as a pipeline using s3, Codedeploy, Codepipeline.
* Built S3 bucket, policies and used S3 for storage and backup on AWS
* Worked on building VPN to establish site to site VPN connection between Data Center and AWS
* Managed AWS services CLE, EC2, VPC, S3, Route 53, CloudTrail, IAM and Trusted Advisor services.
* Integrated Jenkins, Git, AWS Codepipeline and AWS Elastic Beanstalk to create build and deployment pipelines.
* Worked on IAM to grant permissions and resources to users, managed roles and permission of users.
* Created pipelines in AWS to deploy Docker images in AWS ECS using CloudFormation, CodeBuild, Code Deploy, S3.
* Configured AWS Multi Factor Authentication in IAM to implement 2 step authentication.
* Created CloudFormation template to build S3 buckets and setup s3 properties (versioning, encryption, object lock), bucket policies as well as lifecycle rule to upload files to s3 glacier.
* Created Terraform to enable Cloudtrail logs across multiple AWS accounts and send those logs to one centralized log account s3 bucket. Setup DynamoDB, RDS, EC2 snapshot and created backup and restore process.
* Used Terraform to setup CloudWatch alerts using metrics filter on the CloudTrail events and setup SNS topics and SES email notifications. Encrypted s3, EBS volumes, Elasticsearch, RDS, DynamoDB table.
* Optimized volumes and EC2 instances & created multi–Availability Zone VPC instances.
* Used IAM to create accounts, roles & groups. Created inline policy & attached to users, roles, Group and EC2.
* Configured S3 to host static web content. Configured Elastic Load Balancers with EC2Autoscaling groups
* Created monitors, alarms and notifications for EC2 hosts using Cloud watch.
* Planned AWS Cloud environment, setting up environments, configurations, customization of Cloud environment.
* Used Jenkins for the build the applications of various environments like Production, Stage, development and dev-UI.
* Worked on the different environments like Production, Stage, development and dev-UI environment on the AWS Servers configuration and deployments using Jenkins.
* Utilized CloudWatch to monitor resources such as EC2, CPU memory, Amazon RDS DB services, EBS volumes; to set alarms for notification or automated actions; & to monitor logs for better understanding & operation of system.
* Developed automation framework for Application Deployments to the cloud environments.
* Managed and optimize the Continuous Delivery tools like Jenkins.
* Worked with development/test, deployment, & project teams to ensure continuous operation of build & test systems.
* Experience in Jenkins to deploy and build the jobs.
* Documented system configurations, Instance, OS, and AMI build practices, backup procedures, troubleshooting guides, and keep infrastructure and architecture drawings current with changes.
* Installed Jenkins on AWS EC2 instances integrated it to Git and setup CICD pipepline to deploy it into AWS EC2
* Worked on container systems like Docker and orchestrated container applications on Kubernetes, EC2 Container Service (ECS) using Terraform.
* Created production grade Kubernetes clusters base on Ansible scripts.
* Experience in working with container based deployments using **Docker**, **Docker** images, **Docker** file, **Docker** Hub, **Docker** Compose and **Docker** registries.
* Worked on **Docker** Container snapshots, attaching to a running container, removing images, managing directory structures and managing containers.
* Experienced in Installing, Configuring and Managing **Docker** Containers, **Docker** Images for Web Servers and Applications servers such as Apache Tomcat using **Docker** and integrated with Amazon MySQL RDS database.
* Worked on **Kubernetes** to deployed Docker containers into Pod Clusters on multiple Nodes in QA, Test and Production Environments
* Create Pods with **Kubernetes** through YML scripts and Deploy to Docker containers in Various nodes in the environments.
* Create/Update Standard Operating Procedure (SOP) for process flows and quality enhancements
* Used Jenkins for creating new jobs, jobs configurations, builds are configured and executed in the Jenkins.
* Worked on the cloud formation scripts to create S3 bucket and utilized Amazon Glacier for archiving data
* Setup ELK stack cluster in AWS ec2 environment. Setup daily Snapshot of the Elasticsearch indices on S3 bucket as well as setup filesystem monitoring for the EBS volume attached in the ELK cluster.
* Developed visualization and dashboards, which processes large amount data that are stored in Elastic Search Used various aggregations like Metrics, Average aggregations in Elastic Search.
* Setup MongoDB cluster in EC2 instances and worked with developers to integrate it with Springboot application.
* Setup and configured ElastickbeanStalk application and developed a script for developers to upload the springboot application jar file from their local and deploy into Elasticbeanstalk application with blue-grean deployment process.
* Created a Docker deployment pipeline for custom application images from ECS in the cloud using Jenkins.
* Configured Artifactory repository as a central build repo
* Worked on Ansible Tower, which provides an easy-to-use dashboard and role based access control, so that it's easier to allow individual teams access to use Ansible for their deployments.
* Installing, Configured and management in Ansible Centralized Server and creating the playbooks to support various middleware application servers, and involved in configuring the Ansible tower as a configuration management tool to automate repetitive tasks.
* Designed end to end automation of infrastructure and continuous delivery of the applications by integrating cloud formation scripts, Jenkins, AWS & Ansible playbooks.
* Experience in writing Ansible playbooks for installing WebLogic/tomcat application, deployment of WAR, JAR, and EAR files across all the environments.
* Followed agile methodology and involved in daily SCRUM meetings, sprint planning, showcases and retrospective and used JIRA as a tracking tool for the sprints.

**Project: Azure Cloud Migration**

**Responsibilities**

* + Managed **Azure Infrastructure Azure Web Roles, Worker Roles, VM Role, Azure SQL, Azure Storage, Azure AD Licenses, and Virtual Machine Backup.** Created, and deployed Virtual Machines on **Azure**, creating, and managing the **virtual networks** to connect servers and composed **ARM templates** for the same cloud platform.
  + Deployed **Azure IaaS virtual machines (VMs)** and **Cloud services (PaaS role instances)** into secure **VNets** and **subnets** with **Azure** autoscaling and Application programming Interface **(API)** management **(REST APIs).**
  + Used **terraform** for **multi-cloud deployment** using a single configuration and created **terraform** templates that can be used as modules by passing the parameters.
  + Integrated **Azure Log Analytics** with Azure VMs, Azure Monitor for monitoring the log files, storing, and track metrics, and setting up the build and deployment automation for **Terraform** scripts using **Jenkins**.
  + Used **AKS** to deploy a managed **Kubernetes** cluster in **Azure** and created an AKS cluster in the Azure portal used template-driven deployment options such as Azure Resource Manager templates and **terraform.**
  + Deployed and optimized two tier web applications to **Azure DevOps CI/CD** to focus on development by using services such as Repos to commit codes, Test Plans to unit test, deploy App Service, **Azure Application Insight** collects health performance and usage data of the process, stored **artifacts** in **blob storages**.
  + Established a private connection between **Azure Key Vault** and other **Azure services** by using **Azure Private Link.** Experience in moving all traffic to the service can be routed through the **private endpoint.**
  + Created docker images and push them to **Azure Container registry** and configured **Azure Kubernetes services** (AKS), configured the Pipelines by using **Azure DevOps** utility and created new branches and pipelines.
  + Worked on several Docker components such as **Docker Engine**, **Machine**, Creating **Docker Images**, **Compose**, and **Docker Hub** and handle multiple images primarily for middleware installations and domain configuration.
  + Configured applications that run multi-container **Docker** applications by utilizing the Docker-Compose tool which uses a file configured in **YAML** format. Used **Kubernetes** to manage containerized applications using its nodes, Config-Maps, selector, Services, and deployed application containers as Pods.
  + Developed microservice on boarding tools leveraging **Python** and **Jenkins** allowing for easy creation and maintenance of build jobs and **Kubernetes** deploy and services.
  + Used **Jenkins pipelines** to drive all microservices builds out to the **Docker registry** and then deployed to **Kubernetes**, Created **Pods** and managed using **Kubernetes.**
  + **Python** OOD code for quality, logging, monitoring, and debugging code optimization as well as wrote Python modules to view and connect the **Apache Cassandra instance.**

**Project: “Horizon” Enterprise Platform**

**“Horizon” Enterprise Platform**: Enterprise SDLC Automation platform, provides an integrated suite of tools that continue support of agile software delivery using standardized tools and processes that automate manually intensive functions where appropriate.

**Responsibilities**

* **Lead CICD** automation and Operations process inside the Business Stream.
* Configured fully automated CICD workflows using DevOps tools.
* Administrated JIRA, GIT, Bitbucket, CloudBees Jenkins, Jfrog Artifactory, SonarQube, Ansible Tower and XL Release.
* Created Technical blogs on the automation process.
* Technical SME for Horizon CICD process.
* Implemented Agile Methodologies to derive solutions for complex applications.
* Manage and document the Horizon platform infrastructure, ideally a jack of all trades.
* Performs various SDLC activities for DevOps practices for each application team, which includes continuous integration, continuous delivery, continuous testing, and continuous monitoring.
* Collaborate with Applications Teams to understand the build and deploy model, design CICD automation flow using Jenkins build orchestration tool and setup Ansible Playbooks, Roles & inventory.
* Develop and organize guidance materials, visual aids, and other education materials
* Maintain Master Document Control Listing and ensure compliance with documentation procedures
* Trained 50+ New joiners on the Horizon Platform and its tools.
* Migrated applications from SVN, Perforce, TFS, CVS to GIT.
* Migrated 100+ application on to Horizon Platform to archive “One Click Deploy” Model.

**Project: IBM Urban Code**Implemented DevOps methodology to automate the build and deploy process for all Bank of America applications using IBM urban Code tools uBuild and uDeploy.

**Responsibilities:**

* Configured complete build setup for consistent build and deployment.
* Configured deploy jobs in uDeploy, created workspace for each Application.
* Configured Application components and integrated with Application.
* Configured Environments (Controlled and uncontrolled) for PROD and Pre-PROD.
* Created a fully automated workflow deployment process for executing on target servers.
* Responsible for analysis of current build and deployment process for application and configure it on uBuild and uDeploy tools.
* Coordinating with System support team to get uDeploy agent installed.
* Grant application and environment level access to Development and support team based on request.
* Coordinated with application teams to understand the on boarding applications and their needs of component building such as Application, Static contents, DML Scripts and config files.

**Project: Electric Flow**

Implemented Electric Flow tool for a flexible, model-driven approach for software delivery. The process automates manual, error-prone builds, tests and deployments, allowing teams to continually reduce the cost and risk of software release.  
**Responsibilities:**

* Created Build definition in Visual Studio to integrate TFS builds with Electric Flow tool.
* Created Business platforms for each project domain
* Created Project releases, configured build and release for multi-tiered applications.
* Implemented multiple pipelines and releases across hybrid infrastructure in a predictable and auditable way.

**Project: Flagscape Test Automation**

Worked as DevOps Test Automation Engineer to build and implement Automation regression test suite for Bank Flagscape Site

**Responsibilities:**

* Analyze the manual test cases and identify potential candidates for automation.
* Created Automation test scripts using TOSCA tool to minimize the number of test cases with maximum test coverage
* Implemented Automated test execution capabilities, whenever possible to minimize run- time
* Reduced the maintenance effort for existing test cases.
* Implemented TCD (Test case Design) approach to make test scripts robust and reusable across all the environment.
* Implemented best practices like parameterization, regular expressions to avoid hardcoded values in test scripts.
* Created Requirements Tree and assigned the frequency and damage class to requirements to facilitate risk-based testing.
* Created execution list and mapped individual test scripts with corresponding requirement.
* Created validation scripts to check the results.
* Created reusable test step modules and implemented recovery scenarios.
* Shared automation knowledge with the functional test team with through several KT sessions and demos to ensure self-sustainability.
* Supported other QAS team to resolve issues related to TOSCA.

**Client: NCR Corporation (Full Time)**

**Role: SCM Engineer**

**Duration: April 2015-February 2016**

**Project: SCM Automation**

**Responsibilities**

* Worked on **Openstack** Environment Implementation.
* Involved in testing of components Neutron and Horizon (**Openstack** dashboard). Tested and verified two major platform releases of Mirantis **Openstack.**
* Developed python scripts for creating tenant space including projects, users, flavors, networks and subnets in **Openstack** platform.
* Written Shell Scripts for manual deployment of   **Openstack**
* Deployed various services of **Openstack** in Linux Containers (LXC).
* Worked on end to end setup of the **Artifactory** pro as a container with a secure private **Docker** registry and local **Docker** repositories for storing the built **Docker** images.
* Setting up **Kubernetes** platform with 2 clusters and providing assistance to various app teams.
* Created private cloud using **Kubernetes** that supports DEV, TEST, and PROD environments.
* Installed and administered   **Docker** and worked with **Docker** for convenient environment setup for development and testing.
* Good hands on experience on setting up **Jenkins** on servers and to create **CI-CD** pipelines.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using **Ansible playbooks** and has Integrated  **Ansible** with Jenkins.
* Used Ansible and **Ansible Tower** as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Developed using ansible automation in replacing the different components of Openshift like **ECTD**, **MASTER, APP, INFRA**, **Gluster**.
* Worked with RedHat **OpenShift** Container Platform for Docker and Kubernetes, used Kubernetes to manage containerized applications using its nodes, ConfigMaps, node-selector, Services and deployed application containers as Pods.
* Worked on **Openshift** platform in managing Docker containers and Kubernetes Clusters and Created Kubernetes clusters using ansible playbooks.
* Implemented Ansible to manage all existing servers and automate the build/configuration of new servers in **Ansible Tower**.
* Developed **Ansible** scripts for an automated server provisioning and Docker images for isolation, reducing the time between provisioning and deployment.
* Used Ansible as DevOps tool and Git as SCM tool to automate the deployment of infrastructure.
* Integrated Open Contrail in testing environment.
* Very Good Working knowledge of Build scripts & automated solutions using various scripting languages like **Shell**, **Python**, Yaml,
* Developed new RESTful API services that work as a middleware between our application and third-party APIs that we will used using **python.**
* Experience writing data APIs and multi-server applications to meet product needs using **python**.
* Installation, configuration and management of Apache and Tomcat servers.
* Handling the day-to-day Operations, installing software & plugins, apply patches, manage file systems, monitoring performance and troubleshoot alerts.
* Creating the filesystems using RedHat volume manager and performing the health check on regular basis for all Linux serves.

**Project: APTRA 2.0(APTRA Edge, APTRA Promote and APTRA Relate)**

**Responsibilities**:

* Building Components and aggregates for the components/products.
* Improved and automated the existing SCM Automation tool used for Activate teams
* Designed and implemented the standards and policies for SCM build process using SVN.
* Administration of SVN and GIT tool
* Implemented GIT across few new components and managed to create project workspaces and role management.
* Perform SCM Audits on every release of components and Products (SPL).
* Ensure that all the code is maintaining the source code and also ensure that appropriate quality steps and approvals are adhered to before the releases.
* Preparing the Documentation for the products to be released.
* Conducting change management board meetings as and when required.
* Addressing the issues raised by the development team to SCM team.
* Preparing the build and release procedure documents and making sure that development teams follow the procedure once those are agreed by the teams.
* Reviewing the procedures in regular intervals or as and when development team request for any modifications or alterations.

**Client:** **Publicis Sapient (Full Time)**

**Role: Infrastructure Analyst**

**Duration: July 2013-March 2015**

**Project: Barnes & Nobles**

* Creating Amazon **EC2** instances using command line calls and troubleshoot the most common problems with instances and monitor the health of Amazon EC2 instances and other **AWS** services.
* Involved in supporting cloud instances running Linux and Windows on **AWS**, experience with Elastic IP, Security Groups and Virtual Private Cloud in **AWS**.
* Extensive experience on configuring **Amazon EC2**, **Amazon S3**, Amazon Elastic Load **Balancing IAM** and **Security Groups** in Public and Private Subnets in **VPC** and other services in the **AWS**
* Utilized **AWS** CLI to automate backups of ephemeral data-stores to **S3 buckets**, **EBS** and create nightly **AMIs** for mission critical production servers as backups.
* Maintained and developed **Docker images** for a tech stack including Cassandra, Kafka, Apache, and several in house written Java services running in AWS on Kubernetes.
* Extensively used Google stack driver for monitoring the logs of both **GKE** and **GCP** instances and configured alerts from Stack driver for some scenarios.
* Involved in Setup and Configuration of **Puppet** Configuration Management.
* Installed and configured an automated tool **Puppet** that included the installation and configuration of the **Puppet** master, agent nodes and an admin control workstation.
* Created **puppet** automation with multiple modules as per component like **Kafka**, **Zookeepers**, Mysql, Logstash, Http collectors & Schemaregistry to install & configure Ec2 instances to create/update **Kafka** cluster.
* Updating kernel & security patches in Amazon linux environment, Handling out of memory issues in Linux kernels during rebalance in **Kafka** cluster.
* Written **Chef** Cookbooks for various DB configurations to modularize and optimize end product configuration.
* Worked on **Openshift** PaaS product architecture and worked on creating **Openshift** namespaces for on-prem applications migrating to cloud.
* Virtualized the servers using **Docker** for the test environments and dev-environments needs, also configuration automation using **Docker** containers.
* Experience in creating **Docker** Containers leveraging existing Linux Containers and AMI's in addition to creating **Docker** Containers from scratch on both Linux and Windows servers.
* Worked with Amazon **AWS/EC2**, and Google's **Docker**   based cluster management   
  environment **Kubernetes**.
* Creating **Jenkins** jobs and distributing load on **Jenkins** server by configuring Jenkins nodes which will enable parallel builds.
* Extensively worked on **Jenkins CI/CD pipeline** jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the Jenkins build process.
* Experience on working with on-premises network, application, server monitoring tools like **Nagios**, **Splunk**, **AppDynamics** and on **AWS** with **CloudWatch monitoring tool**.

**Client: Avyaya Technologies**

**Role: Build & Release Engineer / System Administration**

**Duration: Aug 2012-July 2013**

* Administered **RHEL** 5.x,6.x operating system, applications & network problems and performance issues.
* Deployed latest patches for Linux & Application servers, performed Red Hat Linux Kernel Tuning.
* Implemented day-to-day tasks in Red Hat Linux that include upgrading rpms, kernel, configuring SAN Disks, multi-pathing and LVM file system.
* Created users, manage user permissions, maintain User & File System quota on Red Hat Linux.
* Migrated database applications from RHEL 3.X, 4.X, SUSE Linux to RHEL 6.3, 6.4 server.
* Engineered, Build and managed over 300 Linux Servers (RHEL 6.3 and 6.4) for migration of various applications.
* Successfully expanded and shrunk ext3, ext4 and GPFS file systems.
* Utilized Linux LVM for flexibility with respect to file system and storage management.
* Performed Qualys security scans against newly provisioned Linux servers for auditing purposes
* Manage UNIX users from AD using The **UNIX** Authentication Broker (UNAB) feature in CA Access Control.
* Created, deployed, and managed complex, fine-grained access control policies to ensure only authorized privileged users are getting at your most sensitive data and applications
* Edited system configuration files (such as network settings, kernel parameters, service configuration files, cron)
* Assisted with daily TSM operations that includes restores, backups, new client additions and missed/failed reports.
* Remediated any vulnerabilities related to PCI compliance and worked on exceptions, if any.
* Updated scripts based on system changes and deploy/upgraded firmware.
* Upgraded systems and associated system tools and apply patches to systems and associated system tools and updated scripts based on system changes.
* Implemented virtualization using VMware in Linux on HP-DL585 and IBM-z/VM series.
* Patched Linux kernel, memory upgrades and swaps area
* Installed and configured NSM monitoring tool to monitor servers.
* Worked on blade logic management console to provision Red Hat enterprise Linux servers in physical and VMware.
* Developed scripts to automate routine activities and installed Blade logic software for server automation
* Managed systems using remote consoles like ILO for HP Hardware and HMC for IBM P-Series
* Setup Network File Services (NFS), and Network Information Services (NIS) in Linux and AIX systems
* Network trouble shooting using ‘ndd’, 'traceroute', 'netstat', 'ifconfig' and 'snoop' ‘nmon’ etc
* Worked with DBAs on installation of **RDBMS** database, restoration and log generation.
* Mentored and trained other offshore members of the team in various technologies
* Defined standards for the engineering team to follow while designing new solutions for easier support.
* Implemented Continuous Integration and Continuous Deployment using Jenkins.
* Integrated **SVN**, **Maven** and **Jenkins** for automated Builds.
* Handled daily and weekly builds to various environments.
* Implemented **branching** models for better source code management.
* Worked with Developers during code versioning, merge conflicts and build issues.
* Automated the **Tomcat** deployments using Jenkins
* Implemented Zero Production Downtime by Web Server load balancing.

**Client: Synchronous Solutions LTD**

**Role: Build & Release Engineer / System Administration**

**Duration: Feb 2011– June 2012**

* Administered and Engineered **Jenkins** for managing weekly Build, Test and Deploy chain.
* Automated Weekly releases with **ANT/Maven** scripting for Compiling Java Code, Debugging and Placing Builds into Maven Repository.
* Worked on **Sub versioning** tools Like **SVN** and **CVS**
* Worked on **JBoss**, **Apache**, **Mail Server**, and **Firewall** in both development and Production. Worked on various scripting language like **Bash, Shell, Groovy**
* Installed, upgraded and configured **RHEL** 5.x/4.x. This included Kickstart, NIM and CD media.
* Installed, configured and administration of Application Server 6.x, Network Deployment on Linux.
* Installed Fix packs on Application Server and added patches using Update installer.
* Implemented day-to-day tasks in **RedHat** Linux that include upgrading rpms, kernel, HBA driver, configuring SAN Disks, multi-pathing and LVM file system.
* Configured SAMBA to get access of Linux shared resources from Windows.
* Day to day Linux and AIX hardware support, problem and change ticket implementations, composing scripts, OS builds & upgrades along with day-to-day Storage & UNIX Administration.
* Linux kernel, memory upgrades and swaps area and performed Red hat Linux Kickstart installations
* Creating and managing VM’s through Virtual Centre and VI client.
* Scripting for automating changes during move to speed up process.
* Responsible for Monitoring and fine-tuning system and network performance for Linux systems.
* Provided 24/7 on call support on UNIX Production Servers. Responsible for maintaining UNIX security on RedHat Linux and IBM AIX.

**Education:**

* **Master’s Degree in Computer Science**, From **Staffordshire University**, UK – 2010
* **Bachelors** in Information Technology, From **Jawaharlal Nehru Technological University**, India - 2007