**Maheswara reddy**

**Lead Cloud DevOps Engineer**

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**469-598-1431 X 143**

**Summary:**

Experienced Senior Cloud DevOps Engineer with a prolific 12-year track record of implementing robust, scalable, and automated infrastructure solutions. Adept at leveraging cutting-edge technologies including AWS & AZURE for cloud orchestration, Kubernetes for container orchestration, Terraform for infrastructure provisioning, Ansible for configuration management, Docker for containerization, EKS, and CI/CD pipelines with Jenkins. Known for a studious approach to problem-solving and also worked on multiple other technologies like Apache Airflow, GitHub, Python, Spark, Splunk, Airflow, Grafana, and Prometheus.

* Possess extensive experience working with various Amazon Web Services (AWS) products and their components such as ELB, EC2, S3, VPC, NACL, Cloud Trails, IAM, SNS, Cloud Formation, ECS, EKS, Fargate, Kinesis, Route 53, Network Connectivity Troubleshooting, Hybrid environments, and VPC Peering.
* Well-versed in Elastic Cloud Computing, Glacier, Block Storage, Elastic Beanstalk, Amazon Lambda, Virtual Private Cloud, Load Balancing, Relational Database Service, and CloudWatch, gained through working in an AWS environment.
* Skilled in creating AWS Multifactor Authentication (MA) for RDP/SSO logon instances, locking down security groups, and setting up specific IAM profiles per group, utilizing newly released APIs for controlling resources within AWS based on group or user.
* Expertise with Terraform to leverage AWS services such as EC2, IAM, VPC, ELB, and Security groups, and have also used Terraform to map more complex dependencies and identify network issues, and managed service providers along with versioning, building, and changing the infrastructure efficiently.
* Managed AWS infrastructure as code (laaS) using Terraform. Provisioned highly available EC2 instances using Terraform and CloudFormation. Set up build and deployment automation for Terraform scripts using Jenkins.
* ﻿﻿Hands-on experience with cloud migration tools such as Snowball and Direct Connect for migrating data from on-premises data centers to AWS Cloud and implemented Terraform modules for deployment of various applications across multiple cloud providers.
* Experience with Orchestration tools such as Kubernetes, Docker Swarm, designing and deploying container-based production clusters using Docker, Kubernetes, and Docker Swarm, and developed Docker images to support Development and Testing Teams and their pipelines, distributed Jenkins and ELK stack images.
* Experience working on Docker Hub, creating Docker images, and handling multiple images primarily for middleware installations and domain configuration.
* ﻿﻿Experience in Ansible Tower dashboard, role-based access control, access to Ansible for deployments, and connected multiple Ansible Tower nodes into an Ansible Cluster. Experience in automation of different deployment tasks with Ansible Playbooks and also knowledge of Ansible inventory files and Ansible Galaxy.
* Experience with Configuration Management tools such as Ansible, and Puppet to automate the environment, including developing playbooks etc
* Experience in Jenkins on creating CI/CD pipelines, creating freestyle projects pipeline, multi-branch pipeline Jobs, used Jenkins pipeline to provide API access to a private repo and deploy the artifact to EC2 instance. Integrated matrix Authorization Strategy plugin with Jenkins to specific permissions to Jenkins jobs.
* Expertise in various version control tools like GitHub, Gitlab, SVN, and Bitbucket. Experience in pushing and pulling, checking out repositories, and merging branches.
* ﻿﻿Experience with Monitoring tools like Elasticsearch, Logstash, and Kibana (ELK) for log analytics, full text search, and application monitoring in integration with AWS Lambda and CloudWatch.
* Hands-on experience using CloudFormation templates for reliable provisioning of initial infrastructures (stacks) such as IAM roles & policies, S3 buckets, and bucket backups on AWS.
* Implementation of zero downtime PROD deployments on docker service for rolling updates.
* Experience in system operations, auto-provisioning, code deployments, software installation, and configuration updates using Ansible playbooks. Skilled in utilizing Ansible Tower to efficient orchestration and monitoring of automation processes.
* Added required docker images to Vagrant and created servers out of Images for testing. Automated infrastructure build-out and systems provisioning using Ansible and Ansible Tower.
* Proficient in Power Shell, JSON, YAML, Groovy, Bash/Shell, and Python.
* Possess extensive experience working with various Amazon Web Services (AWS) products and their components such as ELB, EC2, S3, VPC, NACL, Cloud Trails, IAM, SNS, Cloud Formation, ECS, EKS, Fargate, Kinesis, Route 53, Network Connectivity Troubleshooting, Hybrid environments, and VPC Peering.
* Well-versed in Elastic Cloud Computing, Glacier, Block Storage, Elastic Beanstalk, Amazon Lambda, Virtual Private Cloud, Load Balancing, Relational Database Service, and CloudWatch, gained through working in an AWS environment.
* Skilled in creating AWS Multifactor Authentication (MA) for RDP/SSO logon instances, locking down security groups, and setting up specific IAM profiles per group, utilizing newly released APIs for controlling resources within AWS based on group or user.
* Expertise with Terraform to leverage AWS services such as EC2, IAM, VPC, ELB, and Security groups, and have also used Terraform to map more complex dependencies and identify network issues, and managed service providers along with versioning, building, and changing the infrastructure efficiently.
* Managed AWS infrastructure as code (laaS) using Terraform. Provisioned highly available EC2 instances using Terraform and CloudFormation. Set up build and deployment automation for Terraform scripts using Jenkins.
* ﻿﻿Hands-on experience with cloud migration tools such as Snowball and Direct Connect for migrating data from on-premises data centers to AWS Cloud and implemented Terraform modules for deployment of various applications across multiple cloud providers.
* Experience with Orchestration tools such as Kubernetes, Docker Swarm, designing and deploying container-based production clusters using Docker, Kubernetes, and Docker Swarm, and developed Docker images to support Development and Testing Teams and their pipelines, distributed Jenkins and ELK stack images.
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* Hands-on experience using CloudFormation templates for reliable provisioning of initial infrastructures (stacks) such as IAM roles & policies, S3 buckets, and bucket backups on AWS.
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* Experience in system operations, auto-provisioning, code deployments, software installation, and configuration updates using Ansible playbooks. Skilled in utilizing Ansible Tower to efficient orchestration and monitoring of automation processes.
* Added required docker images to Vagrant and created servers out of Images for testing. Automated infrastructure build-out and systems provisioning using Ansible and Ansible Tower.
* Proficient in Power Shell, JSON, YAML, Groovy, Bash/Shell, and Python.

## Education Qualifications:

* **B**.**Tech (Information Technology)** from JNTU ,Hyderabad (2008-2012)

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## Professional Experience:

* I am currently working for **LBGUK & NEST**, As **Devops Consultant** from 01 September 2022 to till date.
* Worked for **US Technology Global Pvt Ltd**, as **Sr. system analyst** (DevOps automation Engineer For DELL) from OCT 2020 to July 2022.
* Previously worked for **IBM India Pvt Ltd**, as **Sr. Consultant** from JAN 2017 to AUG 2020 with payroll of DYNPRO India PVT LTD.
* Previously worked for **GalaxE**. **Solutions India Pvt**. **Ltd, Bangalore** as **WebSphere Portal Administrator** from May 2015 to JAN 2017 KEYSTONE Unique Info Systems
* Worked as a **Asst Middleware Administrator** in **Wipro Technologies**, **Bangalore** From MAY 2012 to April 2015, with payroll of Visual IT solutions PVT LTD.

**Technical Skills:**

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| --- | --- |
| **Cloud Services** | Amazon Web Services, Google Cloud Platform |
| **Configuration Management Tools** | Puppet, Ansible, Ansible Tower  |
| **CI/CD & Build Tools** | Jenkins, TeamCity, GitLab, Maven, Ant, UCD |
| **Container Tools** | Kubernetes (K8s), Docker, Docker Swarm, Azure Kubernetes Service (AKS), Google Kubernetes Engine (GKE), Elastic Kubernetes Service (EKS), Amazon Elastic Cloud Service, Azure Container Service. |
| **Virtualization** | VMWare, VSphere, ESXi, VMWare Workstation, Vagrant, Virtual Box, Oracle Virtual Box |
| **Automation Tools** | ANT, Terraform, Maven, Jenkins, Ansible |
| **Web Servers** | Apache HTTP, Nginx, IIS, Apache Tomcat |
| **Database System** | MySQL, AWS RDS, Mongo DB, Cassandra DB |
| **Scripting languages** | Python, Bash shell, Power shell, YAML |
| **Networking/Protocol** | TCP/IP, DNS, NFS, ICMP, SMTP, DHCP, UDP, NIS, LAN, FTP |
| **Version Control Tools** | GitHub, Bitbucket, SVN |
| **Monitoring Tools** | Zabbix, Splunk, ELK, kibana, Manage Engine. Prometheus, CloudWatch, Cloud Trail, Grafana |

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## Advanced Technologies:

Docker, Kubernetes, Prometheus, Elasticsearch, Logstash, Kafka, Kibana, Node Exporter, Fleuentbit,

Argo cd, helm, Jenkins, bitbucket, GitHub/GitLab, thano’s installation configuration through yaml/helm templates file for Automation.

**Professional Experience:**

**Client: LBGUK & NEST**

**Imp: Srm it solutions pvt ltd. UK Sep 2022 – Present Location: London, UK**

**Role: Lead Cloud DevOps Engineer**

**Responsibilities:**

* As part of this project I am working as team lead to migrate no of applications from on-prime environment to Openshift container platforms by using automation.
* I am responsible for Designed, deployed and managed containerized applications using openshift and Kubernetes to ensure high availability and scalability, schedule migrations and application deployments by using GIT, Jenkins and UCD (urban code deploy) tools to deploy the applications in various environments like dev, preprod and production.
* Experience in managed & Orchestrated containerized applications using redhat openshift and Kubernetes. Configured Openshift Projects, Namespaces, routs, persistent volumes, volume claims for workload islolation and storage management.
* Managed openshift operators, helm charts and custom resource definitions (CRDs) to automate application lifecycle management.
* Used Azure Kubernetes service to deploy a managed Kubernetes cluster in Azure and created an AKS cluster in the Azure portal, with the Azure CLI, also used template-driven deployment options such as Azure Resource Manager templates.
* Experience in dealing with Windows Azure IaaS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, Express Route, VPN, Load Balancing, App Gateways, Auto-Scaling, and Traffic Manager
* Involved in Agile/Scrum/Waterfall environments.
* Optimized container performance by fine-tuning resource limits, requests, and pod scheduling across openshift clusters.
* Implemented horizontal pod scaling and vertical pod autoscaling to enhance workload efficiency.
* Built and optimized CI/CD pipeline using Jenkind Tekton, ArgoCD, and UrbanCode Deploy(UCD) for seamless application deployment on openshift.
* Automated container image build, tagging and and deployment rollouts using openshift pipelines, helm, and ansible.
* Developed GitOps workflows with ArgoCD to automate infrastructure and application deployment in openshift.
* Integrated Openshift with Docker, Nexus and Artifactory for secure image management and versioning.
* Designed Blue-Green and Canary deployments using Openshift routs, services and traffic splitting.
* Configured and integrated Prometheus,Grafana and EFK(Elasticsearch, Fluentd,Kibana) stack for monitoring and logging openshift workloads.
* Created custom dashboards for OCP cluster health, pod metrics and application performance.
* Troubleshoot and resolve performance bottlenecks using Kube-state-metrics, openshift logging and jaeger tracing.
* Implemented ISTIO (service mesh for traffic management, observability and security of microservices.
* Enforced RBAC and SCCs to restrict access and improve cluster security.
* Integrated container vulnerability scanning tools like Clair, Trivy and OpenSCAP into CI/CD pipelines for proactive security tasks or checks.
* Implemented network policies, pod security policies and service mesh encryption (mTLS) for secure openshift deployments.
* Developed self-healing mechanisms using OCP operators, liveness/readiness probs, and automated remediation scripts.
* Designed and tested DR strategies, including multi-cluster failover and openshift cluster backup/restore using velero.
* Worked with development, security, and infrastructure teams to optimize containerized workloads for openshift.
* Documented best practices, troubleshooting guids, openshift deployment and migration procedures and runbooks for operational teams.

**Environment:** AWS, Docker, Kubernetes, carpenter, Rancher, Harbor, Harness, Jenkins, UCD, Artifactory, Concourse, New relic, Jira, Service Now, GitHub, Ansible

**Client: Dell International**

**Imp: UST global Oct 2020 – Jul 2022**

**Location: India**

**Role: Cloud DevOps Engineer**

**Responsibilities:**

* Contribute to the design and implementation of continuous integration and delivery processes and systems for highly available and performant application stacks.
* Responsible for the definition, design, construction, integration, testing, and support of reliable and reusable software solutions.
* **Implemented Azure-based cloud-native data solutions spanning ingestion to consumption, leveraging Azure Synapse Analytics and Power BI for comprehensive analytics and business intelligence needs.**
* **Experienced in architecting and implementing end-to-end modern data solutions using Azure, including advanced data processing frameworks like Databricks.**
* Expertise in Azure Scalability and Azure Availability - Build VMs availability sets using the Azure portal to provide resiliency for IaaS based solution and Virtual Machine Scale Sets (VMSS) using Azure Resource Manager (ARM) to manage network traffic.
* Used Docker for setting Azure Container Registry with Docker and Docker-compose and actively involved in deployments on Docker using Kubernetes.
* Performed software configuration/release management activities for three different Java applications.
* Designed and implemented Continuous Integration (CI/CD) process and tools with approval from development and other affected teams.
* Defined processes to build and deliver software baselines for internal as well as external customers.
* Created CI/CD Pipelines in Azure DevOps environments by providing their dependencies and tasks. Also have experience on implementing and managing continuous delivery systems and methodologies on Azure and created END-END Automation with CI Procedures using Jenkins & automated Maven builds by integrating them with Continuous Integration tools Jenkins.
* Release Engineer for a team that involved different development teams and multiple simultaneous software releases and implemented Continuous Integration Process
* Installed and configured Jenkins for Automating Deployments and providing a complete automation solution.
* Built and Deployed SQL Database Projects
* Windows **PowerShell** experience for Active Directory Administration.
* Strong knowledge of Continuous Integration (CI) tools like **, Jenkins, Bamboo, Kubernetes, , Sonar qube, Subversion, TFS, Team foundation server, and Nexus art factory**.
* Patch management review via PowerShell script to discovered current patch status and deploy patches to affected systems, implemented Windows Update Services (WSUS) to schedule updates.
* Managed and maintained operating systems on servers (Web servers, Database servers & Mail servers)
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform) Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Implemented Ansible to manage all existing servers and automated build/configuration of new servers.
* Experience working with Bit bucket plugins in Jenkins for Private repositories.
* Configured TCP/IP for servers, workstations, and setup of complete network.
* Responsible for implementing monitoring solutions in Ansible, Terraform, Docker, and Jenkins.
* Setup AWS infrastructure monitoring through Datadog and application performance monitoring through App Dynamics.
* Automate Datadog Integrations through Ansible Scripts for QA, Regression and Prod environments.
* Automate Datadog Dashboards with the stack through Terraform Scripts.
* Integrate Datadog in Jenkins pipeline and Automate the Dashboard and Alerts.
* Migrate infrastructure monitoring from Zabbix to Datadog.
* Write terraform scripts for CloudWatch Alerts.
* Worked on docker, Kubernetes, Prometheus, Elasticsearch, Logstash, Kafka, Kibana, Node exporter, Fluent bit, Argo cd, helm, Thanos installation configuration through yaml file.
* I involved in to the yaml scripting for development environment configurations to get the alerts through mails, and to get the metrics for the Prometheus.

**Environment**: Linux, AWS, Nagios, JIRA, Apache, Storm, HBase, Hive, Kafka, Kerberos, HDFS, CDP, GitLab, Ansible, Java, PHP, Shell/Bash Script, Route53, Cloud watch, AWS Lambda, S3, EC2, Security Groups, Confluence, TCP/IP, DNS.

**IMP: IBM India Pvt Ltd, Global world (IBM Global Internal projects support App Ops) &**

**Honda North America & Canada Oct 2017 – Aug 2020**

**Location: India**

**Role: Cloud DevOps Engineer**

**Responsibilities:**

* In-depth knowledge in regards to the building an Instance, AMI, Auto-Scaling, Load Balancers, Networking in AWS.
* Utilized AWS CLI to automate backups of ephemeral data stores to S3 buckets and EBS. Created AMIs for mission-critical production servers as backups and used AWS Elastic Beanstalk for deploying and scaling web applications.
* Configured AWS IAM and Security Groups in Public and Private Subnets in VPC. Managed IAM accounts (with MA) and IAM policies to meet security audit and compliance requirements.
* ﻿﻿Provided high durability of the available data using data storage in the AWS S3 bucket, versioning S3, and lifecycle policies. Also hosted the data from the S3 bucket by creating URLs.
* ﻿﻿Knowledge in managing Zabbix alert tool and resolving issues through the charts.
* Implementation of PagerDuty alerts and working on the same is accomplished.
* Worked on JIRA tool in our organization for a transparent work flow.
* Experience in PXE Boot Installing and troubleshooting Linux.
* Experience in research, streamline and documentation – Technical articles and bug reporting.
* Knowledge in configuring DNS, DHCP, Open Directory and Web Service.
* Experience in configuring and troubleshooting virtual machines using vSphere Client, vCenter, vSphere web client, VMware Fusion on Mac and VMware Workstation in PC.
* Utilized Terraform as infrastructure as code for execution plans, resource graph, and change automation. Managed AWS infrastructure as code using Terraform.
* ﻿﻿Deployed and configured Elasticsearch, Logstash, and Kibana (ELK) for log analytics, full-text search, and application monitoring in integration with AWS Lambda and CloudWatch.
* ﻿﻿Configured Docker containers and created Docker files for different environments, also worked and created Docker images, Docker Hub, Docker registries, and Kubernetes.
* Created private cloud using Kubernetes that supports DEV, TEST, and PROD environments. Implemented a production-ready, load-balanced, highly available, fault-tolerant, and auto-scaling Kubernetes infrastructure
* Worked on Ansible setup, managing hosts file, Using YAML linter, authoring various Ansible playbooks and custom modules with Ansible.
* Created inventory in Ansible for automating continuous deployment and wrote playbooks using YAML scripting.
* Used ELK stack to monitor logs for detailed analysis, worked on dashboarding using Elastic, Logstash & Kibana
* (ELK) and set up real-time logging and analytics for Continuous delivery pipelines & applications.
* Configured ELK stack in conjunction with AWS and used LogStash to output data to AWS S3, reduced ElasticSearch disk space usage by 66% by automating Elasticsearch maintenance using Jenkins.
* Responsible for managing AWS resources in the cloud and maintaining Continuous Integration and Continuous
* Deployment (CI/CD) pipeline for fast-paced robust application development environment.
* Implemented multiple CI/CD pipelines as a part of DevOps role for on- premises and cloud-based software using Jenkins, Chef and AWS/Docker.
* Using Jenkins to deploy code to AWS, create new namespaces, creating docker images and pushing them to the container registry. Working with professional teams on assisting operational tasks, Cloud infrastructure security measures analysis and implementation.
* Design & Developed infrastructure using Terraform & Cloud Formation and automated end to end transit hub connectivity resource deployment in AWS via Terraform by writing JSON or YAML format.
* Written Terraform Scripts (IAAC) to create and automate the infrastructure in AWS Cloud environments.
* Building and Maintaining Docker Container clusters managed by Kubernetes Linux, Bash, GIT, Docker
* Implemented and Installed Ansible configuration management system. Used Ansible to manage Web application, Environment configuration Files, Users, Mount point and packages.
* Successfully migrated legacy application to use CI/CD pipeline which includes Maven, ANT applications. Used Maven for dependency management, build applications and deploy to the containers, application servers and create versions in the repository.
* DevOps Bamboo setup which is migrating legacy applications into automatic build and deploy methods.
* Involved in Scrum Agile meetings to stand up calls, which brings me with full knowledge on Scrum.
* Experience in Monitoring tools like Datadog, Splunk, CloudWatch.

**Environment**: AWS, Ansible, Red hat, Jenkins, SonarQube, Nexus, ELK, Nagios, Kong, Selenium, Mongo dB, Redis, Cloudera Manager, Tomcat.

**Client: Adani & Co-op group uk**

**Imp: Dynpro with IBM Jan 2017 – Oct 2017**

**Location: India**

**Role: DevOps Engineer**

**Responsibilities:**

* Developed and maintained clustered environment for Bitbucket and Artifactory.
* Configured Applications logs & performance using Splunk, Datadog, Nagios & AppDynamics.
* Well versed in creating and maintaining CI/CD pipelines which Integrates build, test, deploy solution.
* Deployed the build artifacts into environments like QA, UAT according to the build life cycle.
* Worked on google cloud platform (GCP) services like computer engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Experienced in providing highly available and fault tolerant applications utilizing orchestration technologies like Kubernetes and Apache Mesoson Google Cloud Platform.
* Automated deployment of application using deployment tool (Ansible) Work with product owners to understand desired application capabilities and testing scenarios.
* Continuous Integration with Jenkins & GitLab. Continuously evaluate and recommend improvement to CI/CD processes.
* Maintained high availability clustered and standalone server environments and refined automation components with scripting and configuration management (Ansible) and experienced in writing Ansible scripts.
* Developed microservice on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Created Python and Bash scripts to monitor & increase efficiency of retail management application system and installs which was carried out by Jenkins.
* Used Kubernetes for creating new Projects, Services for load balancing and adding them to Routes by accessing from outside, created Pods through new application and controlling, scaling and troubleshooting pods through SSH.
* Integrated Docker container orchestration framework using Kubernetes by creating pods, config Maps and deployments. Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, created Pods and managed using Kubernetes.
* Developed RESTful API's, which takes in an HTTP request and produces the HTTP response in JSON Format using microservices. Server monitoring using Splunk, created custom Splunk, dashboards, and reports to reduce user requests.
* Worked on several Frog tools like Artifactory, Mission control, Distribution, X-ray.
* Implemented artifact deployment solution using Frog Artifactory integrated with Jenkins pipeline for the deployment of artifacts and packages, application dependencies (NPM. RPM, NUGet, JAR'S, WAR'S). Worked with several Atlassian tools like Jira, Bitbucket, Confluence, Crucible.

 **Client: Cermaq Australia**

**Imp: keystone unique systems May 2015 – Apr 2017**

**Location: India**

**Role: Middleware Engineer**

**Responsibilities:**

* Worked on daily basics health checks and reports.
* Resolving incidents and defects with in SLA Time.
* Worked on Portal & WCM and WAS Releases and Changes within window time.
* Deploying and customizing themes and skins with using XML access.
* Exporting and Importing Pages with using XML access and admin console from one environment to another environment.
* Deploying new Application, Portlets and Updating existing application and port lets.
* Create and manage users and groups.
* Creating new virtual portal for others.
* Creating jdbc providers, data sources and mapping to applications.
* Creating Queue’s in Cluster level and Cell levels.
* Updating both public and private SSL certificates if it’s expired.
* Monitoring our entire portal with WCM, was applications, process logs, web server logs, plug in logs.
* Fix Pack & Interim fixes installation.
* Generation of heap dumps, thread dumps in case of server failure.
* Providing L1 & L2 support for WAS, WPS & WCM issues.
* Involved in the LDAP and TAM activities.
* Involved in the OS-Servers and DB Servers up-gradation activities
* Troubleshooting WAS, WPS and WCM, IHS, and LDAP-based authentication
* Able to work in the areas of Monitoring, Tuning, Troubleshooting works with WAS, WPS, IHS, LDAP and TAM.
* Working with PMR recommendation updates.
* Supporting 24X7 on-calls on a rotational basis

**Client: Richfield Hospitality, USA**

**Imp: Visual IT Solutions Pvt Ltd May 2012 – Apr 2015**

**Location: India**

**Role: Middleware Engineer**

**Responsibilities:**

* Involved in Installation of WebSphere Application Server (7.x) Network Deployment package. And WebSphere Portal Server with WCM
* Creation of profiles like standalone, dmgr and custom through command prompt.
* Installation and updating of EAR and WAR files from admin console, WSADMIN scripts
* Monitoring log files and traces files for problem determination.
* Installation of Fix Pack and Interim Fix.
* Creating jdbc providers, data sources and mapping to applications.
* Generation of thread dump, heap dump.
* Trouble shooting using Traces, Logs and Log Analyzer
* Configure WebSphere resources including JDBC providers, Data sources, connection pooling with oracle10g database.