**Name: Moqeetuddin**

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**Relocation: Ready to work anywhere in USA**

**Current Location: Houston TX**

**SUMMARY:**

* AWS Cloud Engineer with 6+years of experience in designing, implementing, and maintaining cloud infrastructures. Proficient in various cloud platforms, automation, and deployment strategies. Seeking to contribute technical expertise to a forward-thinking organization.
* Managing Azure Cloud Infrastructure which includes Azure Web Roles, SQL AZURE, AZURE Storage, Azure Web Roles, Worker Roles and **AD** licenses with Service Fabric, **Containers**, Resource Manager, ARM automation, Key Vault, Encryption and Security.
* Experience in container-based technologies like Docker, Kubernetes, and OpenShift along with the development of Microservices architecture using Spring Boot including distributed SSO Authentication and Authorization, Distributed Session Management with REST, JSON.
* Designing, installing, administering, and optimizing hybrid cloud components to ensure business continuity (i.e. **Azure** AD, ADFS, SSO & VPN Gateways); worked with Virtual machines, virtual network, SQL database, traffic manager, storage, ExpressRoute, **Automation** on Windows **Azure** platform services.
* Good Experience in Springs and its modules, **Spring IOC, AOP, Spring Security, Spring Batch programming, Spring boot, Spring microservices, Spring JPA**.
* Strong Experience in implemented Service Oriented Architecture (**SOA**) and Microservices using **Spring Boot** REST web Services, **Micro Services**
* Used **OpenStack APIs and sdks for Nova, Neutron, Cinder, Swift, Glance, Keystone** etc. to manage OpenStack resources for applications running inside data center.
* Experience in implementation of **Office** **365** and **Azure** **Active** **Directory** for **single** **sign**-**on**, authentication, authorization and **Azure** **Role-based Access Control** (**RBAC**). Deployment of **AD**, Identity & Access Management, Azure **Multi** **Factor** **Authentication**, Azure Trust Center.
* Experience in migrating cloud infrastructure from **on premise** to **Azure**, creating Azure ARM Templates, Virtual Networks, Virtual Machines, creating Web Roles, worker Roles, Azure storage, used Microsoft server(2008/12/R2) Azure to deploy using ARM templates, **Microsoft SQL Server, Microsoft Visual Studio, Active Directory and Cloud infrastructure.**
* Managing **Amazon Web Services** infrastructure with automation and configuration management tools such as **Chef, Puppet or custom-built.**
* Created a Micro services using Spring Data REST API and tested with POSTMAN.
* Experience in configuring **Chef Server, Workstation** and **bootstrapping Nodes**, wrote **Chef Cookbooks** and **recipes** using **Ruby script**. Performed testing with **kitchen** and **unit testing**.
* Used **Chef** to manage configuration on connected server. Managed the configurations of multiple servers using **chef** and bootstrapped instances and integrated with auto-scaling.
* Experience in Maintenance of Source Control Management Systems such as **GIT** and **Subversion,** strong experience with Continuous Integration and Continuous Deployment methodologies with **GIT**, **Jenkins**, **SonarQube** and **Nexus repository**.
* Experience in working in Software Configuration Management using Tortoise SVN, Microsoft Visual Source Safe (VSS) and Visual Studio Team Foundation Server (TFS), GIT.
* Deployed various Java applications, web services using CI/CD tools like **Jenkins, puppet** in standalone and clustered environments and automated builds for .**NET** applications using **Jenkins** and managed code in **TFS** adding virtual IP’S and directories for applications on **IIS** web server.
* Troubleshoot the build issue during the **Jenkins** build process and Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in Jenkins to move from one environment to other environments.
* Deployed the artifacts in **Nexus** central repository for internal deployments and Managed Nexus repository for the current project created a new repository and provisioned it. Have hands on experience with **Bitbucket server**.
* Implemented a Continuous Delivery pipeline with **Git, Jenkins**, **Docker.** Whenever a new Git branch gets started, Jenkins automatically builds a new Docker container from it.
* Used **Docker** in creating images and setup Jenkins as a service inside **Docker swarm** cluster to reduce failover downtime to minutes and automate the **Docker** containers deployment without CM tools. Used **Kubernetes** to provide a platform for automating deployment, scaling, and operations of application containers across clusters of hosts.
* Worked on **Docker containerization**. Collaborated with infrastructure and development support team to setup continuous delivery environment using Docker.
* Experienced with **VMware ESXi 5.1/5.5/6.5** Installation, configuration, administration with various virtualization components like **vCenter, vSphere** to manage VMs running on ESX cluster nodes and worked on **vMotion** to migrate VMs.
* Worked with DNS, DHCP and IP Addressing. Installation and configuration of various services like **Apache Web Server, NFS, DHCP, DNS, RPM package management, HTTP, Samba, SSH, LDAP and Send mail**. Administering Active Directory and group policies, creating **LVM**s, **Volume groups** and **file systems**. Modifying logical volumes, mounting and unmounting filesystems.
* Good working experience on scripting languages like **Shell, Perl, Python, PowerShell, Ruby, Bash.** Ability in development and execution of XML, Shell Scripts and Perl Scripts.
* Skilled with **Linux Utilities:** Kickstart**,** SSH**,** User Management, Process Management, Memory Management, and Text processing tools, Log Management, Package Management, Disk Management and Swap Partition/Files Management.
* Experience in installing, configuring, and management of **MYSQL, SQL Server 2008/2012/2014, PostgreSQL, MongoDB** & **Cassandra.**
* Experience Achieving **High Availability** with the help of monitoring tools like (**SPLUNK, ELK**) and automated **Logstash (ELK Stack)** as a part of Server Build and building Elasticsearch (**ELK Stack**).
* Capability in managing all sorts of servers in various environments like **Production**, **Testing**, **staging** etc., and managing their configuration based on the requirement from client.

**Technical Skills:**

|  |  |
| --- | --- |
| **Operating Systems** | RHEL/CentOS 5.x/6.x/7.x, Ubuntu/Debian/Fedora, Sun Solaris 7/8/9/10, Windows Server 2003/2008/2010 |
| **Cloud** | Azure, OpenStack |
| **Scripting** | Bash, Shell, Ruby, PowerShell, Python, Perl, YAML, Shell |
| **Build/Automation Tools** | Ansible, Chef, Puppet, Jenkins, Maven, Ant |
| **Databases** | MySQL, SQL Server, MongoDB, PostgreSQL, Cassandra |
| **Bug Tracking Tools** | JIRA |
| **Version Control Tools** | GIT, Subversion, TFS |
| **Web/App Server** | Apache, IIS, TFS, Tomcat, WebSphere Application Server |
| **Web Technologies/ Programming Languages** | Servlets, JDBC, JSP, XML, HTML, .Net, Java Script, Java/J2EE, C, C++, Perl scripting, Python, Shell scripting, Ruby, YAML |

**Skills: Relevant coursework: Cloud Computing, Networking, System Administration**

**Cloud Platforms: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP)**

**Infrastructure as Code (IaC): Terraform, CloudFormation, Ansible**

**Containerization: Docker, Kubernetes**

**Scripting: Python, Bash, PowerShell**

**CI/CD Tools: Jenkins, GitLab CI/CD, CircleCI**

**Monitoring and Logging: CloudWatch, Azure Monitor, Stackdriver**

**Networking: VPN, VPC, DNS, Load Balancing**

**Security: IAM, Security Groups, Encryption, Firewall Configuration**

**Database Management: AWS RDS, Azure SQL Database, Google Cloud SQL**

**Professional Experience:**

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**June 2022 to Till Date**

**Sr Cloud Engineer**

**Responsibilities:**

* Develop Infrastructure as Code (IaC) templates for automation using Terraform and CloudFormation.
* Implement CI/CD pipelines for application deployment and continuous integration using Jenkins and GitLab CI/CD
* Configure and maintain containerized environments with Docker and Kubernetes
* Monitor system performance, troubleshoot issues, and ensure high availability and scalability
* Design and implement robust security measures following best practices and compliance standards.
* Conduct regular backups, disaster recovery planning, and testing of cloud
* Configure Continuous Integration from source control, setting up build definition within Visual Studio Team Services (VSTS) and configure continuous delivery to automate the deployment of ASP.NET MVC applications to Azure web apps and managed Azure Active Directory, Office 365 and applied upgrades on a regular basis. Implemented a CI/CD pipeline with Docker, Jenkins (TFS Plugin installed), GitHub and Azure Container Service, whenever a new TFS/GitHub branch gets started, Jenkins, our Continuous Integration (CI) server, automatically attempts to build a new Docker container from it.
* Worked with Terraform Templates to automate the Azure IAAS using terraform modules and deployed Kubernetes scale sets in production environment.
* Managed Azure Infrastructure Azure Web Roles, Worker Roles, VM Role, Azure SQL, Azure Storage, Azure AD Licenses, Virtual Machine Backup and Recover from a Recovery Services Vault using Azure PowerShell and Azure Portal.
* Developed REST API's using Spring MVC and Spring boot, hosted all micro services on PCF.
* Written Templates for Azure Infrastructure as code using Terraform to build staging and production environments. Integrated Azure Log Analytics with Azure VMs for monitoring the log files, store them and track metrics and used Terraform as a tool, Managed different infrastructure resources Cloud, VMware, and Docker containers.
* Worked on Docker for container orchestration with Kubernetes container storage, automation to enhance container platform multi-tenancy also worked on with Kubernetes architecture and design troubleshooting issues and multi-regional deployment models and patterns for large-scale applications.
* In charge with building a scalable micro service-based infrastructure capable of handling requests per day using Google Cloud Platform, Docker and Kubernetes.
* Deploying windows Kubernetes (K8s) cluster with Azure Container Registry (ACR) from Azure CLI and Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and Octopus Deploy.
* Experience in deploying applications on EKS cluster Knowledge on Velero - Backup EKS clusters
* Experience with container-based deployments using Docker, working with Docker images, Docker Hub and Docker-registries and Kubernetes.
* Deploy all the services in Openshift using Jenkins and Docker to store Docker Images in Docker registry.
* Configured Kafka to read and write messages from external programs.
* Create hotfixes, patches and temporary release branches to fix Production system issues.
* Worked on MVC based projects using Python with Django and Angular JS/React for production environment.
* Successfully secured the Kafka cluster with Kerberos.
* Build and Maintained Docker container clusters managed by Kubernetes on GCP. Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Designed and deployed AWS/GCP/Vmware infrastructure as code using Terraform, Ansible, Puppet, Git, and Rundeck
* Designing CI/CD pipeline and groovy based pipeline using DevOps Toolset which includes Continuous Integration of GitHub, Gitlab, Jenkins, JFrog Artifactory and deploying through Ansible Tower.
* Proactive monitoring of Production environment using various tools like ServiceNow, Jira, HP-OpenView, Wily, Kibana and Logstash.
* Initially setup golden master ARM templates for most of the Azure resources that can be used in fully automated CI/CD Azure Pipeline. Integrated Azure DevOps with Octopus and ServiceNow.
* Implemented blue green deployments to the services using Openshift, Jenkins and GitLab.
* Set up Drupal Development environment by installing and configuring Docker based with Drupal VM.
* Creating event processing data pipelines and handling messaging services using Apache Kafka.
* Design of Cloud architectures for customers looking to migrate or develop new PaaS, IaaS, or hybrid solutions utilizing Microsoft Azure or Amazon Web Services (AWS).
* Experienced in the migration and implementation from other database servers like MySQL, Oracle to MS SQL Server 2000/MS SQL Server 2005/ MS SQL Server 2014/2016/2017 and, Sybase 12.5.4 and Sybase 15.7.
* Maintained and supported existing applications built on the Drupal platform ensuring site availability.
* Develop CI/CD system using Jenkins with Kubernetes architecture, OpenShift container environment,
* Implemented an OpenShift environment for deployment of containerized applications in managing Docker containers using Docker swarm, Kubernetes Clusters, Apache Mesos.
* Experience working with log monitoring tools like ELK Stack, Nagios, Splunk, Prometheus, Grafana.
* Implementation and Administration of ELK stack for Application Logs centralization and Grafana for Monitoring.
* Established infrastructure and service monitoring using Prometheus and Grafana.
* Implemented Performance testing using Apache JMeter and created a Dashboard using Grafana to view the Results.
* Set up and maintained Logging and Monitoring subsystems using tools like; Elasticsearch, Fluent, Kibana, Prometheus, Grafana and Alert manager.
* Good knowledge and experience in using Elasticsearch, Kibana and fluent, CloudWatch, Nagios, Splunk, Prometheus and Grafana for logging and monitoring.
* Integrated Python microservices with Kafka to process messages into Copart Auction System and Apache Solr.
* Used Jenkins pipelines to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Created POC for implementing streaming use case with Kafka and HBase services.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on AWS and Azure cloud. Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Build CI/CD pipeline using GitHub, Jenkins, Openshift, Ansible and Docker.
* Developed microservice on boarding tools leveraging Python and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Worked on infrastructure with Docker containerization and maintained Docker Images and containers.
* Manage day-to-day business issues related to pipeline and production deployments.
* Created Jenkins CICD pipelines for continuous build & deployment and integrated Junit and SonarQube plugins in Jenkins for automated testing and for Code quality check.
* Integrated SonarQube with Jenkins for continuous inspection of code quality and analysis with SonarQube scanner for Maven.
* Updated Services, database Architecture using Python to store, retrieve and send data to POS using MongoDB.
* Developed Kafka Microservices for web application such as autonomous retrieval of product details in search/category/brand pages, cart products and customer information.
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, test deploy.
* Troubleshooting any part of the lifecycle services within the OpenStack including log files, message queues, database, computer hardware, and network connectivity.
* Provided infrastructure support (24/7) and user support for OpenStack based private cloud.
* Configured Kafka to handle real time data.
* Use to monitor logs on Kibana, Splunk, AppDynamics.
* Identifying the Critical applications for System resource utilization (CPU, Memory, and Threads etc.) & JVM heap size was monitored using AppDynamics.
* Identifying the Critical applications for System resource utilization and JVM heap size was monitored using AppDynamics.
* Installing, running and getting results using AppDynamics.
* Troubleshoot and isolate the root cause of such problems by Mining performance data from AppDynamics and viewing it in Splunk using the AppDynamics Controller REST API
* Experience, and leading up to building a continuous integration system product.
* Implemented cloud services IAAS, PAAS, and SaaS which include Docker and Kubernetes.
* Responsible for Design of different Release Environments for new projects.
* Integration of Maven/Nexus, Jenkins, Urban Code Deploy with Patterns/Release, Git and Confluence JIRA

**Amex, Phoenix, AZ**

**July 2020 – May 2022**

**Sr. cloud Engineer**

**Responsibilities:**

* Provided technical support and assistance to clients in managing cloud services
* Resolved system issues, optimized performance, and conducted system upgrades
* Assisted in the migration of on-premises systems to the cloud environment
* Collaborated with development teams to ensure efficient deployment of applications
* Experience in setting up CICD pipeline integrating various tools with Cloud Bees Jenkins to build and run terraform jobs to create infrastructure in AWS.
* Designed and developed Micro service UI Portal using HTML, CSS, AngularJS, Bootstrap.
* Migrated on premises Databases to MS Azure platform.
* Written multiple scripts in Ruby and Bash Shell for different migration tasks in the company on to Azure.
* Strong expertise in Log monitoring using Nagios in different work environments.
* Automated the application and **MySQL Container** deployment in **Docker** using Ruby.
* Build **Jenkins** jobs to create Azure Infrastructure from **Git**Hub repositories containing Terraform code.
* Written scripts in Ruby which integrated with Azure-API to control instance operations
* Created a Virtual Network on Windows Azure to connect several on-premises servers.
* Handled Jira issues to prioritize and act per issue sensitivity.
* Strong experience in application performance management existing MS Access data storage to MS SQL Server and MS Access frontend as well.
* Design, installation, configuration and administration of Linux 6 and 7 servers and support of Openshift Enterprise and non-Openshift support. The operation and support of Openshift Enterprise and Docker Cloud services
* Docker is used for creating images that are deployed on AWS as Microservices.
* Developing Jenkins build pipeline jobs using groovy for Node.js, .NET, andJava-based applications. Configured SSH, SMTP, Build Tools, and Source Control repositories in Jenkins.
* Design, build, maintain and support the Apigee infrastructure
* Experience in preparing Helm charts to built atop Kubernetes and benefit from its cluster architecture.
* Configuration and support for underlying infrastructure and associated components such as DB, Middleware, Openshift, Network and Jenkins.
* Updating kernel & security patches in Amazon linux environment, handling out of memory issues in Linux kernels during rebalance in Kafka cluster
* Used the command line interface to manage apps, services in Pivotal Cloud Foundry as well as Apps manager.
* Expertise in Azure infrastructure management (Azure Web Roles, Worker Roles, SQL Azure)
* Used Airship for configuring, deploying, and maintaining Kubernetes
* Working with Security Groups, configuring Inbound /Outbound rules, creating and importing Key Pairs.
* Implemented routing rules and validation policies in APIGEE.
* Configured ceph backend storage for OpenStack (swift and cinder) and added Multiple storage backends to Cinder.
* Setting up and configuring Kafka Environment in Windows from the scratch and monitoring it
* Functional and Performance testing of SAAS and PAAS API platform built on Java and Open source stack.
* Integration of Sonar and Selenium with Jenkins to automate the testing of java applications and provided the Acceptance test driven development (ATDD).
* Setting up apigee proxy API on Azure cloud platform Automating the Apigee installations and work flows.
* Used Helm chart for the collection of YAML template files organized into a specific directory structure
* Create bind user defined and built in services in Pivotal Cloud Foundry (PCF).
* Maintained high degree of competency across the Microsoft Application Platform focusing on .NET Framework, WCF, Windows Azure, and SQL Azure.
* Used Terragrunt to run terraform scripts to automate instances for EC2 instances that were launched manually before.
* Installing the Apigee Edge and monitoring the gateways Developed REST API’s with authentication using Django as a platform Extensive windows and Linux configuration and automation.
* Hands-on experience in standing up and administrating on-premise Kafka platform.
* Have involved in creating different Apigee API documents as part of the project requirements.
* Build and release software baselines, code merges, branch and label creation in Subversion/GIT and interfaced between development and infrastructure.
* Used Helm to manage Kubernetes applications
* Written Ansible inventory files and plays to automate infrastructure administration (infrastructure as code) and deployment automation. Created playbooks to install and configure required packages to setup the environments.
* Deployed, Managed and operated multiple OpenStack distributions like Mirantis, OpenStack, Kolla and OpenStack.
* Responsible for deployment of WAR, EAR files along with environment specific properties, ETL workflows, DB
* Utilized Cloud Watch to monitor resources such as EC2, CPU memory, Amazon RDS DB services, Dynamo DB tables, EBS volumes; to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
* Installed and configured Splunk to monitor EC2 instances with Ansible automation. Created indexes and generated reports.
* Develop REST API proxies in the Apigee API Management platform. Requires knowledge of Apigee scripted policies and Javascript
* Created Database on InfluxDB also worked on Interface, created for Kafka also checked the measurements on Databases
* Experience of using Azure backups and Recovery Vault to migrate on premise to Windows Azure in DR on cloud.
* Used Jenkins and implemented several CI / CD plugins like build pipeline, Git, JUnit and pipeline plugin.
* Build Scripts using Ant and Maven build tools in Jenkins to move from one environment to other environments.
* Worked with Docker Trusted Registry as repository for our docker images and worked with Docker container networks.
* Utilized Several Docker best practices to create base images from scratch and to create clear, readable and maintainable clean docker files.
* Automating the deployment procedure, monitoring the deployments and troubleshooting the failed deployments.
* Involved in designing Data Archival processes and masking processes using Optim software for healthcare, Insurance and financial data Strong experience in converting existing MS Access data storage to MS SQL Server and MS Access frontend as well.

**PayPal, San Jose -CA August 2018 – June 2020**

**Sr. Cloud Engineer**

**Responsibilities:**

* Designing cloud infrastructure solutions based on business requirements using platforms like AWS, Azure, Google Cloud, or others.
* Deploying and configuring cloud environments, services, and resources. This involves setting up networks, virtual machines, storage, databases, and security measures.
* Automation and Scripting: Developing scripts and automation tools for provisioning, configuration, and management of cloud resources. Using Infrastructure as Code (IaC) tools like Terraform, CloudFormation, Ansible, or Puppet.
* Setting up and maintaining CI/CD pipelines to automate software delivery, testing, and deployment processes using tools like Jenkins, GitLab CI/CD, or CircleCI.
* Implementing monitoring tools to track system performance, analyze metrics, and ensure scalability. Optimizing resources to achieve cost efficiency and performance improvements.
* Implementing and managing security measures such as identity and access management (IAM), encryption, firewall configurations, and compliance with industry standards to protect cloud environments and data.
* Monitoring systems for issues, identifying root causes of problems, and implementing solutions to ensure system stability and availability. Conducting routine maintenance and updates.
* Working with cross-functional teams including developers, operations, and other IT staff to ensure alignment of cloud services with business objectives. Documenting configurations, processes, and best practices.
* Designing and implementing disaster recovery plans, backup strategies, and data management practices to ensure data integrity and availability in case of system failures or disasters.
* Keeping up-to-date with the latest trends, best practices, and advancements in cloud technologies and certifications to enhance skills and contribute effectively.
* Involved in installing, configuring and administration of Redhat Linux 4.x, 5.x, 6.x/7 servers by using Kickstart and Jump Start servers and supported various applications running on them.
* Integrated Kafka Heavy forwarder into the Splunk deployment server.
* Experience in implementation of TCP/IP, HTTP, FTP, NIS, NIS+, DNS, DHCP, NFS, NAS, RAID, Jumpstart installation of Solaris and Kick start in RedHat Enterprise Linux.
* Responsible for Installation and Configuration of Solaris 8/9/10 servers, RHEL servers (3/4/5/6) and AIX servers.
* Experience in Manage file systems using Software RAID and recover an array, manage file systems using Logical Volume Management, resize file systems and protect them with LVM Snapshots.
* System configuration/hardening using IP tables, SE Linux, TCP Wrappers, ACL and traditional permission on Linux servers as well as restricting access to terminals, disabling unnecessary services and securing.
* Automated the release pipeline to achieve zero touch deployments using Jenkins, Ansible, Shell, Python, Nexus and GitHub.
* Configured Splunk app for ONTAP and Kafka.
* Worked on NoSQL database Cassandra.
* Open source Cassandra Migration from Dataventer to other.
* Manage IBM Products related DevOps methods using Chef (websphere versions & Portal server clusters) and worked with Amazon AWS in moving QA environments to the cloud.
* Created scripts in Python which integrated with Amazon API to control instance operations.
* Deployed a centralized log management system and integrated into Chef to be used by developers.
* Configured Jenkins to implement nightly builds on daily basis and generated change log that includes changes happened from last 24 hours.
* Configuring and Networking of Virtual Private Cloud.
* Connected continuous integration system with GIT version control repository and continually build as the check-in’s come from the developer.
* Integrated chef cookbooks into Jenkins jobs for CD framework and created roles, environments using chef handlers for different auto kickoff requirement jobs.
* Building/Maintaining Docker container clusters managed by Kubernetes, Linux, Bash, GIT, Docker, on GCP. Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Using Kubernetes, I have controlled and automated application deployments and updates and orchestrated deployment.
* Created multiple ANT, MAVEN, DOCKER, Shell scripts for build automation and deployment.
* Analyzed the builds using the sonarQube.
* Asynchronous coding in NodeJS applying ExpressJS frame work and nodejs modules.
* Responsible for writing the Release Notes, documenting all the useful info about the release, software versions, changes implemented in current release, Defects fixed, Labels applied.
* Deployed Java/J2EE applications on to Apache Tomcat application servers and configured it to host the wiki website.
* Coordinated with software development teams and QA teams on issues and solved the problem.
* Experienced in AMI's volume snapshots, RDS snapshots and performed LAMP installation and configuration on Ubuntu, Redhat and Amazon Linux EC2 instances.