Moqeetuddin Mohammed
Onsite C2C - +1-646-440-3786 , shahul.hameed@ilinesoft.com

SUMMARY:

- Aws DevOps Engineer with Over 10+ years of experience in **Linux environment**, automation of **build tools, configuration management tools** following **Agile methodology** and Software Development Life Cycle including monitoring, configuration, troubleshooting and maintenance in cloud and DevOps Environment with **Continuous integration and Continuous Delivery process**.
- **Having around 5+ years of experience in Ansible and around 3+ years experience in Ansible Tower.**
- Experience in AWS operations and automation using CLI or API's for various services like **EC2, EBS, S3, Glacier, VPC, Route53, Cloud Formation, Cloud Front, OpsWorks, RDS, DynamoDB, ElastiCache, ELB, Auto scaling etc.**
- Experience in Log management using ELK stack, Using Logstash and Beats (File beat, audit beat, metric beat) for log collection, Elastic Search for indexing the logs and Kibana for creating dashboard for virtualizing the data.

- Enterprise experience with one or more CI/CD implementation, configuration management, build, and orchestration tools: Jenkins, Gradle, uDeploy, GitHub, GitHub Action, Artifactory, Harness IO, Spinnaker, Terraform and Ansible.
- Expertise in migrating on-premise infrastructure to cloud platforms like Azure, AWS, PCF, OpenStack.
- Experience in infrastructure development and operations by involving in designing and deploying using AWS services like **s3, EBSRoute53, ELB, cloud watch monitoring, AMI, VPC, IAM, cloud formation templates, cloud front, AWS EC2 Instance, DNS.**
- Experience working with APIGEE Edge, Developer Portal & APIGEE Baas platform.
- Closely worked with Kafka Admin team to set up Kafka cluster setup on the QA and Production environments and implemented to reprocess the failure messages in Kafka using offset id.
- Have work experience on Multiple **AWS** instances, Creating **Elastic Load Balancer and Auto scaling** to design fault tolerant, highly available and cost-effective systems.
- 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.
- Worked hands-on with Terraform, Ansible, AWS, ELK/Elasticsearch, Airflow, docker, python, nodejs, shell scripts, Linux
- 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.
- 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 working with log monitoring tools like ELK Stack, Nagios, Splunk, Prometheus, Grafana.
- 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.**

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- Unique experience with Pivotal Cloud Foundry (PCF) architecture and design, troubleshooting issues with platform components, and developing global/multi-regional deployment models and patterns for large scale developments/deployments on Cloud Foundry and AWS.
- Managing **Amazon Web Services** infrastructure with automation and configuration management tools such as **Chef, Puppet or custom-built.**
- Used **Ansible** to manage Web applications, Environments configuration files, packages, Mount points and users. Also, to create **AWS instance**, configuration management, and software deployment. Created and used **Ansible Playbooks** in **Ansible Tower** and integrated **Ansible tower** with **Jenkins** to deploy code to different servers.
- 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**.
- 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.
- Migrated **Python** scripts to **Lambda Function** in **AWS** to reduce cost, maintenance overhead for scripts running in **AWS EC2**. Configured API gateway to create an endpoint which triggers a Lambda function based on the Post request from Upstream Jobs.
- 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.**

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- 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.

Certification: AWS Solution Architect

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	• AWS, 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

Professional Experience:
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June 2022 to Till Date
Sr. Cloud/Aws/DevOps/ Engineer/ CI/CD Pipeline Analyst
Responsibilities:
- Worked on AWS Cloud Administration which includes services like: Elastic Search, EC2, S3, VPC, AMI, RDS, IAM, Route 53, EBS, ELB, Autoscaling, Lambda and security groups
- Designed and implemented a continuous build-test-deployment (CI/CD) system with multiple Pipelines using Bamboo/Jenkins to support weekly releases and out-of-cycle releases based on business needs.
- 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.
- Worked on AWS services (EC2, S3, RDS, EBS, ECS, ELK, ELB, IAM, VPC, Dynamo DB, Route53, SQS and SNS)
- Configured Kafka to read and write messages from external programs.
- Extensive experience with Continuous Integration Tools (Jenkins, git,, Bamboo, harness, Octopus).
- 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.
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- Designed and deployed AWS/GCP/Vmware infrastructure as code using Terraform, Ansible, Puppet, Git, and Rundeck
- Implementation and Administration of ELK stack for Application Logs centralization and Grafana for Monitoring.
- 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.
- Involved in end-to-end POC for Spinnaker, Harness in setting up and configuring pipelines.
- Implemented blue green deployments to the services using Openshift, Jenkins and GitLab.
- Lead transition from application performance management and deployment to 'infrastructure as code' using Puppet, Cloud formation, Terraform, including design and implementation tools in AWS cloud
- Build and manage a large deployment of RedHat Linux instances systems with Puppet Automation and Implemented automated local user provisioning VMs created in Open stack and AWS cloud
- Developed REST services to talk with adapter classes and exposed them to the **Angular**js front-end.
- 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.
- Supported 100+ AWS cloud instances running Linux and windows environments.
- Designed and worked with team to implement ELK (elastic search, log stash and Kibana) Stack on AWS.
- 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.
- Involved in deployment of micro services applications using Jenkins, Spinnaker CD, Harness CD, Kubernetes and Docker in GCP.
- Migrated SQL server to both AWS and Azure SQL Database.
- Develop CI/CD system using Jenkins with Kubernetes architecture, OpenShift container environment,
- Configuring and managing ELK stack for centralized log monitoring, creating parsers in Logstash to filter the logs and uses beats for log shipping.
- Implemented an OpenShift environment for deployment of containerized applications in managing Docker containers using Docker swarm, Kubernetes Clusters, Apache Mesos.
- Wrote Terraform modules to create resource/application stacks in AWS/GCP which used multiple resources like EC2, Autoscaling, ELBs, ROUTE53, VPCs, IAM Policies, S3 buckets, GCE, GKE, GCS
- Involved in localization and internationalization of web pages using **JSON, XSL, XML,** and **Angular**.js.
- Integrated Python microservices with Kafka to process messages into Copart Auction System and Apache Solr.
- Worked on Amazon AWS EC2 cloud services for installing, configuring and troubleshooting on various Amazon images like Amazon Linux AMI. Created and managed multiple Instances of Apache Tomcat and deployed several test applications in those instances in QA and PROD environment.

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- 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.
- Used Ansible toSetup/teardown of ELK stack (Elasticsearch, Log stash, Kibana) and troubleshooted the build issues with ELK and work towards the solution.
- 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.
- Refactoring of monolithic applications to a Microservices and Component based architectures.
- Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on AWS.
- Created GCP projects and migrated on-prem/AWS instances to GCP
- Worked on Chaos Process using Failure Mode and Effects Analysis, conducting Chaos experiments, and Game Days for applications deployed to AWS cloud environments.
- Installed Kafka cluster with separate nodes for brokers.
- Worked on infrastructure with Docker containerization and maintained Docker Images and containers.
- Experience developing the administrative UI using **Angular** JS and Node JS.
- Incorporated AWS native DevOps services to support development and deployment: Git, CodeBuild, CodeDeploy, CodePipleline and Cloudformation/Cloud Development Kit (CDK).
- 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.
- Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on AWS.
- Updated Services, database Architecture using Python to store, retrieve and send data to POS using MongoDB.
- Developed Kafka Microservices for web application ssuch 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.
- Create various Python lambda functions to automate and build features in AWS.
- 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.
- Experience, and leading up to building a continuous integration system product.
- Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups.
- 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
- Changing the AWS infrastructure Elastic Beanstalk to Docker with Kubernetes.

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Amex, Phoenix, AZ
July 2020 – May 2022
Sr. Cloud/DevOps/Aws Engineer/ CI/CD Pipeline Analyst
Responsibilities:

- Worked in extreme agile environment with fast moving team and achieved stretch goals.
- Supported and developed tools for integration, automation testing, and release management.
- Performed AWS operations using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups.
- Configuring and Networking of Virtual Private Cloud (VPC).
- Working experience with AWS security, Platform security and Network Infrastructure.
- Delivery of API platform Testing and Automation Framework Development on Cloud Platform.
- Used Ansible to Setup/teardown of ELK stack (Elasticsearch, Log stash, Kibana) and troubleshoot the build issues with ELK and work towards the solution. Used Ansible playbooks for provisioning instances on Open stack.
- 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
- 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.
- Cloud development and automation using Node.js, Python (Boto3), AWS Lambda, AWS CDK (Cloud Development Kit) and AWS SAM (Serverless Application Model).
- Involved in creating DevOps frame work for various projects within the organization. Implemented DevOps (ATDD, CI, and CD etc.) for applications based on Microsoft Azure (App services and storage).
- Created AWS instances via Jenkins using EC2 plugin and integrated nodes into chef ecosystem via knife command line utility.
- 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)
- Creating S3 buckets and managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
- 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.
- Enabled AWS Cloud Watch to monitor major metrics like Network Packets, CPU utilization and load balancer.
- Configure and deploy AWS Lambda service to run codes in response to events and automatically manage resources.
- 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

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- 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
- Incorporated AWS native DevOps services to support development and deployment: Git, CodeBuild, CodeDeploy, CodePipleline and Cloudformation/Cloud Development Kit (CDK).
- 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.
- Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform. Managed AWS infrastructure as code using Terraform.
- 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
- High availability testing (both Data platform and API platform), Failover and Operations testing for multi region Amazon AWS product implementations.
- 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.
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- 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. Aws/DevOps Engineer/ CI/CD Pipeline Analyst
- **Responsibilities:**
- Responsible for versioning the source code, releasing binary files, creating and applying labels on source files and release files.
- Designed and implemented scalable, secure cloud architecture based on Amazon Web Services. Leveraged AWS cloud services such as EC2; auto-scaling; and VPC (Virtual Private Cloud) to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts, and are quickly evolve during develop iterations.
- Implemented multiple high-performance MongoDB replica sets on EC2 with robust reliability.
- Functional and Performance testing of SAAS and PAAS API platform built on Java and Open source stack.
- Configured Splunk app for ONTAP and Kafka.
- Wrote Ansible Playbooks and adapted Chef Cookbooks as part of Configuration Management for setting up the environment and deployment of artifacts in various Environments dynamically without manual intervention.
- Working with AWS services such as EC2, VPC, RDS, CloudWatch, CloudFront, Route53 etc.
- Implemented cloud services IAAS, PAAS, and SaaS which include Docker and Kubernetes.
- Knowledge in Implementation of horizontal auto-scaling use cases using OpenStack components - Heat, Ceilometer.
- Implemented the data platform, data streaming pipeline by enabling DevOps & Cloud ecosystem.
- Wrote unit test for complete rest API testing.
- Maintaining the infrastructure (servers for different data centers) using OpenStack. Familiar with OpenStack concepts of user-facing availability zones and administrator facing host aggregates.
- Implemented Micro-services using Pivotal Cloud Foundry (PCF) platform build upon Spring Boot Services and created workflows on TeamCity for setting up automated pipelines for CI/CD with PCF.
- Utilized Ansible Playbooks for pulling the artifacts from the centralized location and deploy it onto the Application/Web Server.
- Worked in creation and modification of Instances, AMI's, and Security Groups within EC2, Monitor and built reports through CloudChecker, and CloudWatch.
- Fundamental mastery of the AWS cloud computing platform, and its many dimensions of scalability - including but not limited to: VPC (Virtual Private Cloud), EC2, load-balancing with ELB, messaging with SQS (and scalable non-AWS alternatives), auto-scaling architectures.
- Implemented ATG Personalization in mobile site and integrating with ATG Ecommerce.
- Led Jenkins continuous integration server installation and configuration for all GIT Repositories.
- Configured Kafka heavy forwarder for Splunk in production environment.
- Automated application packaging and deployments.

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- Managed Linux staging and testing environments.
- Scripting and automation capabilities to increase TFS efficiency and reduce manual tasks.
- Established coding standards and enforced them through automated tools.
- , Ansible and Jenkins.
- 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.
- Able to create scripts for system administration and AWS using languages such as BASH and Python.
- Configured Splunk app for ONTAP and Kafka.
- Responsible for distributed applications across hybrid AWS and physical data centers.
- 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.
- Manage configuration of Web App and Deploy to AWS cloud server through Chef.
- 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.

Charter Communications, Englewood, CO
June 2016 – July 2018
DevOps Engineer
<u>**Responsibilities:**</u>

- Responsible for Architecting Multi AZ Components in AWS like, EC2, IAM, VPC, RDS With Replication, S3 for Object and Static Webpages, Auto Scaling of Micro Services like ECS, ELB with SSL Certs.
- Responsible to change the configuration of the ELB or Route 53 to achieve the Blue green deployment strategies by developing scripts in Python Boto3 to automate this process.
- Experienced in AMI's volume snapshots, RDS snapshots and performed LAMP installation and configuration on Ubuntu, Redhat and Amazon Linux EC2 instances.
- Developed Cloud Formation templates to develop complete Stack on AWS using services like EC2, RDS, S3, EBS, Cloud Watch, SNS, SQS, Cloud Trail. Developed Python scripts to pass in user data when creating the AMI to install services in the Boot time.
- Developed Ansible Playbooks using YAML scripts for launching different EC2 virtual servers in the cloud using Auto-scaling and Amazon Machine Images (AMI).
- Configuring, automation and maintaining build and deployment CI/CD tools git/git-Lab, ANT, Jenkins, Maven, Docker-registry/daemon, Nexus and JIRA for Multi-Environment with high degrees of standardization for both infrastructure and application stack automation in AWS cloud platform.
- to automate administration of subscriptions and resource groups.
- Created Ansible Playbooks in Ansible Tower and integrated Ansible tower with Jenkins to deploy code to different servers. Wrote Ansible Playbooks for installing JBoss, WebLogic, Nginx and WebSphere for configuring load balancers and fail over.
- Integrated Terraform with Ansible, Packer to create and Version the AWS Infrastructure, code deployment and orchestration with tools such as Puppet, Chef, Cloud Formation, and automation validation using Test Kitchen, Ansible and Terraform.
- Terraform template to create Load balancers, EC2 instance with auto scaling and monitoring on the fly for different environments. Creating an AWS RDS MySQL DB cluster and connected to the database through an Amazon RDS MySQL DB Instance using the Amazon RDS Console.
- Developed terraform scripts to build, change and version infrastructure as code using AWS as provider and launch multi-tiered stack to be provisioned and configured with terraform scripts.
- Managed different infrastructure resources, like physical machines, VMs and even Docker containers using Terraform and created automated build procedures to ensure code is always ready for deployment in various cloud environments such as AWS, Azure.
- Developed Ansible Playbook to dynamically changes the pipeline configuration of the scripted pipeline by templating the Jenkins file. Integrated Kubernetes cluster deployment using KOPS in to the pipeline for deployments of the cluster with newly created Image to achieve Blue/ Green Deployments.
- Installed and configured Jenkins with SonarQube and GIT by installing GIT plugins and building the artifacts SonarQube for static and dynamic code analysis using Maven automation tool and storing the build artifacts into Nexus repository and deploying it to WebSphere/Tomcat server.
- Developed Jenkins Files as groovy scripted pipelines to build the Docker images, push them to the Docker registry and perform the rolling deployments on to the Kubernetes Clusters.
- Developed automation and deployment utilities using Ruby, Bash, PowerShell and Python. Experienced with version control systems Git and Subversion.
- Worked in designing and implementing continuous integration system using Jenkins by creating Python and Perl scripts.

Moqeetuddin Mohammed
Onsite C2C - +1-646-440-3786 , shahul.hameed@ilinesoft.com

- Expertise in Shell Scripting and Perl Scripting for Environment Builds and Automating Deployment on WebSphere Application Servers and WebLogic Application Servers.
- Extensive PowerShell experience developing, implementing, and maintaining automation scripts to meet business needs in large scale, highly available, online production environments.
- Used several Python libraries such as wxPython, Numpy and matplotlib for representation or plotting of Network Analysis.
- Used jQuery JavaScript libraries for providing richer user interface and facilitates asynchronous request invocations using AJAX.
- Wrote PowerShell scripts for reporting and automation addressing either a single customer's environment or multiple customer environments also to perform alerting, reporting, monitoring and routine maintenance for domain resources
- Built various containers using Docker engine and Docker Machine environments, to deploy the micro services-oriented environments for scalable applications. Experience in writing Docker files to build the micro-service applications.
- Used Jenkins and pipelines to drive all microservices builds out to the Docker registry and deployed to Kubernetes, Created Pods and managed using Kubernetes. Also configured Kubernetes cluster and supported it running on the top of the CoreOS.
- Deployed Kubernetes Cluster on AWS, VMWare using MiniKube, Kubespray, performed the deployments of the Docker images on to the clusters by updating the Labels and selectors in the Pod definition.
- Building and 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 and deploy.
- Monitored the applications on IBM WebSphere application server and integrated configuration of web apps with WebSphere, involved in the migration of applications from WebSphere 7.0 to 8.5.
- Installation, configuration & upgrade of VMware ESXi, vSphere, vCenter clients, Used VMware vMotion to eliminate application downtime from planned server maintenance by migrating running virtual machines between hosts.
- Installed and configured RedHat Enterprise Linux 7.x, CentOS 7.x and packages for RedHat Linux Servers and configured various services on top of it.
- Experienced in installation, configuration and management of HTTP, NGINX, NTP, NFS, FTP, DHCP, DNS. Created Shell Scripts to monitor the administrative tasks and automated the tasks to free up the resources using Cron jobs.
- Installation of the ELK stack to create a comprehensive log management system to provide insight into the traffic patterns happening on the network.
- Experience in deployment of JIRA applications into existing/default VPC and configuring Amazon Elastic File System to sort the artifacts can be accessed through multiple nodes for High Availability.
- Involved in all phases of Software development life cycle (SDLC) and experienced with fast paced Agile methodologies.

Client: Enquero – Atlanta, GA
October 2015 – June 2016
AWS Cloud Engineer
Responsibilities:
- Responsible for architecting, designing, implementing and supporting of cloud based infrastructure and its solutions.
- Proficient in AWS services like VPC, EC2, S3, ELB, Auto Scaling Groups(ASG), EBS, RDS, IAM, CloudFormation, Route 53, CloudWatch, CloudFront, CloudTrail.

- Experienced in creating multiple VPC's and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
- Created NAT gateways and instances to allow communication from the private instances to the internet through bastion hosts.
- Used security groups, network ACL's, internet gateways and route tables to ensure a secure zone for organization in AWS public cloud.
- Created and configured elastic load balancers and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
- Configured S3 buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirement.
- Possess good knowledge in creating and launching EC2 instances using AMI's of Linux, Ubuntu, RHEL, and Windows and wrote shell scripts to bootstrap instance.
- Used IAM for creating roles, users, groups and implemented MFA to provide additional security to AWS account and its resources.
- Written cloud formation templates in Json to create custom VPC, subnets, NAT to ensure successful deployment of web applications.
- Implemented domain name service (DNS) through route 53 to have highly available and scalable applications.
- Maintained the monitoring and alerting of production and corporate servers using Cloud Watch service.
- Created EBS volumes for storing application files for use with EC2 instances whenever they are mounted to them.
- Implemented and designed AWS virtual servers by Ansible roles to ensure deployment of web applications
- Experienced in creating RDS instances to serve data through servers for responding to requests.
- Created snapshots to take backups of the volumes and images to store launch configurations of the EC2 instances.
- Responsible for Continuous Integration and Continuous Delivery process.
- Used AWS Lambda to run servers without managing them and to trigger and run code by S3 and SNS.
- Implemented Cloud Trail to capture the events related to API calls made to AWS infrastructure.
- Developed installer scripts using Python and UNIX for various products to be hosted on Application Servers.
- Implementation using Jenkins along with Python and Shell scripts to automate routine jobs.
- Created function in Lambda that aggregates the data from incoming events, then stored result data in Amazon Dynamo DB and S3.
- Provided python build script for building and deploying the application.
- Implemented Continuous Integration using Jenkins and GIT from scratch.

Blue Canopy Group LLC, Reston, VA
January 2013 – October 2015
DevOps/ Build & Release Engineer
Responsibilities:
- Designing and implementing for fully automated server build management, monitoring and deployment by Using DevOps Technologies like Puppet.
- Responsible for design and maintenance of the Subversion/GIT, Stash Repositories, views and the access control strategies.
- Implemented build scripts, continuous integration infrastructure and deployment tools to build a continuous delivery pipeline.
- Configured and monitored distributed and multi-platform servers using chef.

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- Created and maintained various Nodes/Slaves in Jenkins for effective light weight Build farm.
- Configured Git with Jenkins and schedule jobs using Poll SCM option.
- Implemented a GIT mirror for SVN repository, which enables users to use both GIT and SVN.
- Experience with build tools Ant, Maven and writing build.xml and pom.xml respectively.
- Used ANT and Python scripts to automate the Build and deployment process to deploying the web services.
- Expertise in querying RDBMS such as Oracle DB 11g, DB2 for data integrity and verifying DB packages code deployments.
- Experience writing chef cookbook and recipes to automate the deployment process and to integrating chef cookbooks into Jenkins jobs for a continuous delivery framework.
- Environment: Git, SVN, Ant, Maven, Jenkins, CHEF, Remedy, Python, Rational Clear Quest, Nagios, AWS, Jira, MySQL, Oracle 11g.