**Noorul .S**

**AWS/DevOps Engineer**

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**SUMMARY**

* Over 8 Years of specialized IT experience in DevOps/ cloud Linux administration
* Strong knowledge of Software Development Life Cycle (SDLC), SCM practices along with software Build and Release Management methodologies. In depth knowledge about Agile, Waterfall and Scrum methodologies.
* Implemented AWS solutions using EC2, Route53, S3, Cloud Front, RDS, IAM, EBS, Elastic Beanstalk and Elastic Load Balancer, Auto scaling groups, Optimized volumes and EC2 instances, Cloud Watch, and Cloud formation.
* Developed and supported the Software Release Management and procedures, Repositories, views, and the access control strategies.
* Expertise in developing Automated solution for entire build and release process and implementing effective methods for Continuous Integration and Continuous Delivery platforms.
* Automate the Build and Deploy of all internal Java environments using various continuous integration tools and scripting languages.
* Performed all necessary day-to-day Subversion/GIT support for different projects.
* Implemented CI/CD Automation Process using various CI Tools like Jenkins, Docker, and Chef.
* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
* Experience with cloud services (Amazon EC2,) elastic capacity administration and cloud deployment and administration tool.
* Hands on experience on Azure VPN-Point to Site, Virtual networks, Azure Custom security, Endpoint security and firewall.
* Experience in architecting Azure IaaS, Azure Hybrid Identity, Azure Governance, Azure web jobs, Azure search.
* Experience in configuring Azure web apps, Azure App services, Azure Application insights, Azure Application gateway, Azure DNS, Azure Traffic manager, App services, Analyzing Azure Networks with Azure Network Watcher, Implementing Azure Site Recovery, Azure stack, Azure Backup and Azure Automation.
* Sound knowledge in automation tools like Ansible, Puppet, Chef, Azure
* Experience in creating local repo, cloning the repo, adding, committing, pushing the changes in the local repo, saving changes for later (Stash), recovering files, branching, build/release strategies, merging, tagging and maintaining the version across the environments using SCM tools like Subversion (SVN), GIT (GitHub, GitLab), Perforce and VSS.
* Developed build and deployment scripts using ANT and MAVEN as build tools for writing build.xmls and pom.xmls
* Using Jenkins as continuous integration tool: Creating new jobs, managing required plugins, configuring the jobs selecting required source code management tool, build trigger, build systems and post build actions, scheduled automatic builds, notifying the build reports, etc.
* In-depth knowledge of computer applications and scripting like Shell, Python, Bash, Perl.
* Extensive experience working on the monitoring of the servers using tools such as Nagios.
* Ability in writing and execution of XML, Ant Scripts, Ruby, Shell Scripts, Perl Scripts, PowerShell scripts and JAVA Scripts for Environment Builds and Automating Deployment trough web application servers like Web Sphere, Web Logic/Apache Tomcat, and JBOSS.
* Experience in integrating the infrastructure automation using Ansible. Creating and configuring Jenkins jobs, build and delivery pipelines with Docker and AWS.
* Experience in AWS image management module (for creating, registering, listing and deleting images) using APIs exposed by AWS.
* Configured versioning for AWS S3 along with the lifecycle policies for archiving data in Glacier
* Monitor and maintain the automated build and CI process to ensure correct build execution and facilitate resolution of build failures using ticketing tools like JIRA and HP Quality Center.
* Experience in Repository Management tools Artifactory, Nexus.
* Experience in installing, administering, patching, up-gradating, performance tuning and troubleshooting various Linux based servers like Red Hat Linux 5/6, CentOS5/6
* Excellent communication skills, ability to work as a team or individually, ability to learn new technologies.
* Hands on experience with hypervisor and compute virtualization technologies. Created, Migrated and maintained VMs between hypervisors.
* Formulated and executed designing standards for DNS servers using TCP/IP, UDP, HTTP, and SSL/TLS.
* Used containerization technologies like Docker and kubernetes for building clusters for orchestrating containers deployment. Experience working on several Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.
* Deployed Puppet, Puppet Dashboard, and Puppet DB for configuration management to existing infrastructure.
* Extensive experience in Java/J2EE/. Net, Linux/Unix system Administration, System Builds, Server Builds, Installations, Upgrades, Patches, Migration, Troubleshooting.
* Expertise in Querying RDBMS such as Oracle, MySQL, No SQL and SQL Server by using PL/SQL for data integrity.
* Worked closely with software developers to debug software and system problems, QA and other teams to ensure automated test efforts are tightly integrated with the build system and in fixing the error while doing the deployment and building.

**TECHNICAL SKILLS:**

**Operating System :** Windows, IOS, Ubuntu, UNIX, CENTOS.

**AWS Services** : EC2, ELB, VPC, SNS, SQS, SWF, RDS, IAM, Cloud Formation,

S3, Cloudwatch, EBS, Amazon Direct connect.

**Versioning Tools :** GIT, Subversion (SVN), Clear case.

**Build Tools :** Chef, Puppet, Ansible, ANT, Maven and Gradle.

**CI/CD Tools :** Bamboo, Hudson, GitLab and Jenkins.

**Languages :** C, Perl, Shell, BASH, SQL, Python, Ruby, Java/J2EE.

**Web Technologies :** Java Script, Servlets, HTML, XML, JSON.

**Web servers :** Web logic, Web Sphere, Apache Tomcat, JBOSS.

**Database :** Oracle, MYSQL, SQL server, DB2.

**Issue Tracking Tools** : JIRA

**Monitoring Tools** : Splunk, Nagios

**Container** : Kubernetes, Docker.

**Professional Experience:**

**AWS/DevOps Engineeer Nov 2016 to Present**

**Freddie Mac, McLean, VA**

**Responsibilities:**

* Created SSL policies for ELB to automate the cipher selection in AWS.
* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications
* Build and configured a cloud based data center in AWS to host Enterprise Data Warehouse which includes public and private subnets, route tables, elastic load balancer and virtual private cloud.
* Cloned and configured the AWS EC2 and added Elastic IP, Elastic Load Balancer, and DNS (Route 53) in the AWS environment.
* AWS Import/Export accelerates moving large amounts of data into and out of AWS using portable storage devices for transport.
* Worked extensively with Nagios monitoring system, created, monitored hosts and services for various reference sites and receivers.
* Migrated existing Nagios3.x to Nagios 4.x with less downtime and maintained the same.
* Implemented &maintained the branching and build/release strategies utilizing Subversion/GIT. Manage configuration of Web App and Deploy to AWS cloud server through Chef.
* Experience in setting up the Chef SCM using Chef Enterprise and Chef Solo.
* Experience in setting up Chef Workstation, creating Chef Cookbooks and Recipes.
* Experience in writing the Chef cookbooks for auto spawning of AWS instances.
* Worked on maintaining Chef Recipes, templates, and attributes.
* Using GIT as source code management tool: creating local repo, cloning the repo, adding, committing, pushing the changes in the local repo, saving changes for later (Stash), and recovering files. Branching, creating tags, viewing logs, etc.
* Creating alarms in Cloud watch service for monitoring the server performance, CPU Utilization, disk usage etc.
* Creating and configuring Jenkins jobs, build and delivery pipelines.
* Experience in writing Maven/ Shell scripts for automating several processes of systems, applications, backups etc.
* Experience in installing, administering, patching, up-gradating, performance tuning and troubleshooting various Linux based servers like Red Hat Linux 5/6, CentOS5/6 Good knowledge in CI (Continuous Integration) and CD (Continuous Deployment) methodologies with Bamboo.
* Hands on experience with hypervisor and compute virtualization technologies. Created, Migrated and maintained VMs between hypervisors.
* Developed build and deployment scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.
* Experience with Build Management tools Ant and Maven for writing build.xmls and pom.xmls
* Worked with Ant and Maven Build tools in Java and CPP Environment.
* Extensively used ANT tool to do the builds, integrated ANT to Eclipse and did local builds.
* Responsible for build management, build verification and troubleshooting builds for Releases.
* Worked with Docker and Kubernetes on multiple cloud providers, from helping developers build and containerize their application (CI/CD) to deploying cloud.
* Have good experience of creating and maintaining the Docker containers.
* Identify Configuration Items and document their characteristics. After every Deployment, delivered the Release Notes on SharePoint site.
* Experience involving versioning for AWS S3 along with the lifecycle policies for backup and archiving data in Glacier
* Involved in migrating physical Linux/Windows servers to cloud (AWS). Build servers using AWS: Importing volumes, launching EC2, RDS, S3, IAM, Route53, VPC, Code Deploy, creating security groups, auto-scaling, Lambda, load balancers (ELBs) in the defined virtual private connection.
* Implemented, deployed and maintained cloud infrastructure using AWS. Automating backups by shell for Linux to transfer data in S3 bucket.

**Environment:** GIT, GITHUB, Shell, Bamboo, Chef, AWS (amazon web services like EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling), IAM, ANT, MAVEN, Ubuntu, Windows Server and LINUX, XML, JAVA.

**DevOps Engineer Jan 2015 to Oct 2016**

**FedEx Office, Plano, TX**

**Responsibilities:**

* Involved in Installing, Configuring and Upgrading of Red Hat Linux 5/6/7 operating systems.
* Worked on Cisco Service Portal and Cisco Intelligent Automation Center 2.8 for setting up self-service private cloud model
* Used Python for Ansible module creation, plugin creation, dynamic inventory creation, operation tools creation along with manipulating Ansible group var file.
* Used Ansible to automate configuration management to manage web applications, configuration files, database, user mount points and packages.
* Used Python for Ansible module creation, plugin creation, dynamic inventory creation, and operation tools creation along with manipulating Ansible group var file.
* Worked on backup functionality and design using Azure and also have knowledge on azure based disaster recovery.
* Highly motivated and committed Cloud and DevOps Engineer experienced in Automating, Configuring and deploying instances on Azure and Rackspace cloud environments and Data centers.
* Worked directly with Azure Product team in tracking and resolving defects in the beta Azure IaaS offering.
* Re-architected Azure IaaS environment in new datacenter using high performance DS series VMs and used AD connect to sync on-premises windows server active directory to Azure active directory.
* Managed internal deployments of monitoring and alarm services for the Azure Infrastructure (OMS).
* Creating Storage Pool and Stripping of Disk for Azure Virtual Machines. Backup, Configure and Restore Azure Virtual Machine using Azure Backup.
* Experience with Microsoft Azure, Azure Resource Management templates, Virtual Networks, Storage, Virtual Machines, and Azure Active Directory.
* Worked on VMWare 5.0 on 95% virtualized non production environments.
* Experience in creating Docker containers leveraging Linux containers and AMI's in addition to creating Docker Containers from scratch.
* Managing in-house Eco product Docker containers with Kubernetes orchestration.
* Dockerized applications by creating Docker images from Docker file, collaborated with development support team to setup a continuous deployment environment using Docker.
* Implemented a distributed Nagios monitoring environment which spans 5 data centers. Added SNMP monitoring from Nagios. Developed and implemented scripts to perform ElasticSearch snapshot backups. Developed metrics graphs using Kibana. Implemented Nagios graphs utilizing pnp4nagios. Implemented logstash monitoring for Nagios.
* Integrated Team City with TFS instance for CI and Octopus Deploy for CD using Jenkins, Maven & Artifactory in Linux environment.
* Configured GIT as source code repository and Managed repository, Branches, Tags for each release and merged the branches after the code freeze.
* Analyzing ANT Projects for Converting ANT Build Projects to Maven Build Projects.
* Develop or modify SQL queries and stored procedures to meet the business requirements and achieve desired performance.
* Implemented Docker container creation process for each GitHub branch gets started on Jenkins as Continuous Integration (CI) server.
* Worked with Splunk to monitor server to predict service level degradation before it occurs and used Splunk to convert machine data into answers.
* Used Kibana for data visualization and created scrum team monitoring charts.
* Filtered and transformed data per business logic in Logstash configuration files.
* Wrote Logstash plugin files in ruby to meet company requirements.
* Worked on ELK Stack to create end to end stack which delivers actionable insights in real time from structured and unstructured data sources.
* Used JSON to design applications to communicate with remote computers, data format and exchange protocol.
* Worked on messaging frameworks like Kafka and RabbitMQ.

**Environment:** Redhat 7.2, Cassandra, LINUX, Cisco, RabbitMQ, Elasticsearch, Nagios, JIRA, (Stash) GIT, Docker, Ansible, Azure,Java/J2EE, ANT, MAVEN, Splunk, Jenkins, JSON, ELK stack.

**DevOps Engineer Aug 2012 to Jun 2014**

**OnePactera Technologies India Pvt Ltd, India**

**Responsibilities:**

* Developed, implemented, integrated and deployed multiple web based applications using java.
* Experience in managing Source Control Systems like Harvest, Bit Bucket and GIT.
* Designed and developed web services to handle and process data as per requirements and best practices that include expand-ability maintainability and re-usability
* Wrote Ant/Maven scripts to automate entire build process.
* Migrated ANT projects into Maven for better build performance.
* Responsible for Releases (enhancement, maintenance, Emergency and bug fixes) into QA, Stage and Prod environments.
* Bootstrapping instances using Chef and integrating with auto scaling.
* Running recipes in standalone mode using chef-solo and chef-zero.
* Deployment and implementation of Chef for infrastructure as code initiative.
* Implemented continuous integration and build tools using Ant, Jenkins, and chef full automation.
* Supported and helped to create dynamic views and snapshot views for end users.
* Created and deployed builds to different environments based on requests.
* Optimized server performance, accuracy, failover and scale.
* Developed build and deployment script using Python scripting.

**Environment:** GIT, Maven, Jenkins, Chef, Bit bucket , Java/J2EE, Python, Ubuntu, Windows Server 2003, Windows XP and LINUX,.

**Build Release Engineer Sep 2010 to Jun 2012**

**Techolution Indiapvt.ltd, India**

**Responsibilities:**

* Involved in Installing Hudson on a Linux machine.
* Perform daily maintenance routines on Linux servers, monitoring system access, managing file space and tuning the system for optimum performance.
* Used GIT along with Puppet Enterprise to deploy software on production and troubleshot various issues during deployment.
* Worked on Managing the Private Cloud Environment. Automated centralized configuration using Puppet.
* Deployed Puppet, Puppet Dashboard, and Puppet DB for configuration management to existing infrastructure.
* Implementing and developing solutions enabling Development and Operations teams to build, deploy, monitor and test applications and environments
* Creating fully automated CI build and deployment infrastructure and processes for multiple projects.
* Coordinated with developers, Business Analysts and managers to make sure that code is deployed to production environment.
* Created scripts to automate the server activities for JBoss application server.
* Documented the deployment process on an excel sheet.
* Processed all the requirements from the developers through Remedy (Management Tool)
* Experience in working with Maven to build Scripts for Database Projects to deploy DB
* Edited and modified POM.xml for applications that use Maven
* Experience in setting maven repository and managed maven artifacts using Nexus repository.
* Used Jira tool to track the issues in the project.
* Installing, configuring and maintaining Continuous Integration, Automation and Configuration Management tools.
* Collaborated with development team to troubleshot and resolve issues.
* Use fast experimentation to build the best product for the company’s needs.

**Environment:** UNIX, Java/J2ee, GIT, Hudson, Puppet, JBoss, Subversion, Ant, Maven, Jira, shell scripting.