**MOHAMMED AHMED **

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**Professional Summary**

* Qualified Professional with 8 years of experience in the areas of **DevOps**, **AWS cloud computing**, **VMware**, **Linux** administration.
* Hands on experience configuring and Administrated OS server/client builds with **centos-6**, **centos-7**.
* Good experience on DevOps tools such as **GIT, SVN, ANT, Maven, Chef, Puppet, Ansible, Vagrant, Virtual Box, Jenkins,** and **Docker.**
* Proficiently experienced in **Amazon Web Services** cloud platform and its features like **EC2, S3, RDS, EBS, ELB, SNS**, **Auto-Scaling, AMI, IAM, Cloud Watch** and **VPC** cloud formation through AWS Console and AWS CLI.
* Experienced in Creating S3 buckets also managing policies for S3 buckets and Objects and Glacier for storage and backup on AWS.
* Experience in route traffic, transfer existing domains and creating new domains by using Route53.
* Good understanding of the principles and best practices of Software Configuration Management **(SCM)** in **Agile**, **scrum**, and **Waterfall** methodologies.
* Implemented **Software Configuration Management** processes on projects including setting up and supporting Continuous Integration.
* Experienced in configuration and administration of tools such as **Jenkins, Bamboo, and Hudson** for setting up and configuring projects, define scheduling policies, install Master/slave agents, perform server upgrades, setting up automated build and deploy processes for various applications.
* Experience in working with Version control systems like **GIT, GitHub** &**SVN**.
* Defined branching, labeling, and merge strategies for all applications in **GIT.**
* Expertise in using build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as war & ear from source code.
* Extensively experienced in using Build Automation tools like **ANT**, **Maven** and knowledge on other Build tools such as **MS Build** and **CMake**.
* Wrote **chef** cookbooks using the several of its Components like attributes, files, recipes, resources and templates to automate system operations.
* Experience is using **Tomcat, JBOSS, Web logic** and **Web Sphere** Application servers for deployments.
* Experience in using configuration management tools like **Ansible/Puppet.**
* Experience with configuration management automation tools and has worked on integrating **Ansible**.
* Experience in writing playbooks for various infrastructure activities for deploying applications using **Ansible**.
* Good knowledge of virtualization and container technology like **Docker**. Good Knowledge of Docker and managing **Docker**-based deployment.
* Performed automation tasks on various **Docker** components like Docker Hub, Docker Engine, Docker Machine and Docker Registry. Worked with Docker images & Docker Container.
* Experience in working with Tracking Tools like **JIRA, Bugzilla**.
* Worked on Monitoring Tools such as **Splunk, Nagios.**
* Installed, Configured, Managed Monitoring Tools such as **Splunk**, **Nagios** for Resource Monitoring/Network/Log Trace Monitoring.
* Implementation/configuration of Windows networks including DHCP, DNS.
* Configured services like **DNS**, **NIS**, **NFS**, **LDAP**, **SAMBA**, **Send Mail**, **FTP**, **Remote access** on **Linux.**
* Knowledge of **Routers** and **Switches**, **Subnet**, **VLAN**, **TCP/IP**, **VPN**, **OSI model** and **Firewall (checkpoint)**.

**Technical Skills**

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| **Operating Systems** | UNIX, Linux, Mac OS X, Windows 2000/2003/XP/VISTA/7/8,Red Hat,CentOS. |
| **Cloud** | AWS EC2, VPC, EBS, AMI, RDS, EBS, ELB, S3, Cloud Trail, Cloud Watch, IAM, VMWare. |
| **Infrastructure** | AWS Cloud Platform (IaaS) |
| **SCM Tools** | TFS, Sub Version (SVN), CVS, GIT, |
| **Configuration Management** | Chef, Puppet, Ansible. |
| **Continuous Integration** | Jenkins, Cruise Control, Hudson. |
| **Build Tools** | ANT, Maven, NANT, Gradle. |
| **Web Development** | HTML,CSS,XHTML,XML |
| **Databases** | MySQL, Oracle, MS Access, MS SQL server |
| **Issue tracking** | JIRA, Bugzilla |
| **Monitoring Tools** | Splunk, Nagios, ELK, Zabbix |
| **Languages/ Scripts** | C, Shell, Bash, PHP, Python, Ruby and Perl.  **SDLC**: Agile, Scrum. |
| **Networking** | TCP/IP, FTP, HTTP, HTTPS, TCP, DNS |

**Work Experience**

**CDK Global Norwood, OH August 2015-Present**

**Sr. AWS/DevOps Engineer**

**Responsibilities**

* Migrated an existing legacy infrastructure and recreated the entire environment within **Amazon's Web Services (AWS).**
* Worked with **AWS Cloud** platform and its features, which include **IAM, EC2, S3, AMI, EBS, CLI, Cloud Watch, SNS, and RDS.**
* Creating **S3** buckets and also managing policies for **S3** buckets and Utilized **S3** buckets and Glacier for storage and backup on **AWS**.
* Involved in configuring **Elastic Load Balancers** with **Auto scaling** to handle high traffic loads.
* Configured **AWS-EC2** Cloud Instances using **AMIs** and launched instances with respect to specific applications.
* **C**reated scripts to totally automate **AWS** services which includes web servers, **ELB**, Cloud Front distribution, database, **EC2** and database security groups, **S3** bucket and application configuration, this script creates stacks, single servers, or joins web servers to stacks.
* **Developed Shell and Python scripts for automation of the build and release process.**
* Used **GIT HUB** as source code repositories.Created **Branches, Labels** and performed **Merges** in **Stash** and **GIT**.
* Responsible for design and maintenance of the **GIT** repositories and the access control strategies.
* Primarily used **Ruby** to write **GIT** applications and **Chef** Recipes.
* Installing, configuring and administering **Jenkins CI tool** on **Linux** machines.
* Designed the project workflows/pipelines using **Jenkins** for Continuous Integration and deployment into different Web/Application Servers.
* Hosting applications along with building and testing the applications using **Jenkins.**
* Architected, planned, developed & maintained Infrastructure as code using CI/CD deployments using **Terraform**.
* Used **MAVEN** as a build tool on java projects for the development of build artifacts like war or ear files on the source code.
* Implemented cloud infrastructure using **Chef**. And Created **Chef Cookbooks** for Sudo users and network configurations using **Chef Server**.
* Written **Chef Recipes** to automate our build/deployment process and do an overall process improvement to any manual processes.
* Troubleshoot the automation of Installing and configuring applications in the test environments.
* Developed, build and deployment processes for Pre-production environments.
* Created and maintained the Shell deployment scripts for **WebLogic** and **web application** servers like **Web Logic, Web Sphere and Apache Tomcat.**
* Experience working on several **Docker** components like **Docker Engine**, Hub, Machine, Compose and **Docker Registry**.
* Created **Docker images** using a **Docker file**, Worked on **Docker container** snapshots, removing images and managing Docker volumes.
* Deployed **Docker Engines** in Virtualized Platforms for containerization of multiple apps.
* Worked hands-on to create automated, containerized cloud application platforms(**PaaS**), and design and implement DevOps processes that use those platforms.
* Modify and Execute Processes, Standard Operating Procedures (**SOP**), Work Instructions (WI), troubleshooting guides and tools.
* Experience working on User admin groups, maintaining account and monitoring system performance using **Nagios and Splunk**.
* Assisted internal users of **Splunk** in designing and maintaining production quality dashboards.

**Environment:** AWS EC2, EBS, ELB, S3, Nagios, Chef, Ant, Maven, Jenkins, GIT, Docker, VPC, Red Hat,Web Logic, Web Sphere,Apache Tomcat, BASH, Python, Linux, UNIX.

**Blue Shield of California, CA Feb 2014 -July 2015**

**AWS/DevOps Engineer**

**Responsibilities**

* Experience in designing and deploying **AWS** Solutions using **EC2, S3, EBS,** Elastic Load balancer (**ELB**) and auto scaling groups.
* Worked at optimizing volumes and **EC2** instances and created multiple **VPC** instances.
* Troubleshooting and monitoring of various applications using **Cloud Watch** in the Amazon Web Services (AWS) environment.
* Performed all Linux operating system, disk management and patch management configurations, on Linux instances in **AWS**
* Experienced in cloud automation using **AWS** cloud Formation Templates.
* Utilized **Chef** for configuration management of hosted Instances within **AWS**.Configuring and Networking of Virtual Private Cloud (**VPC**). Utilize S3 bucket and Glacier for storage and backup on **AWS**.
* Experience working with **IAM** in order to create new accounts, roles and groups.
* Customizing open source **ELK** (**Elastic Search, Logstash and Kibana**) collecting logs and monitoring most of the **Linux Servers** providing **SaaS.**
* Connected continuous integration system with **GIT** version control repository and continually build as the check-in's come from the developer.
* Defined branching, labeling, and merge strategies for all applications in **GIT**.
* Created multiple **ANT**, **MAVEN**, **Shell scripts** for build automation and deployment. .
* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in **Jenkins** to move from one environment to other environments.
* Used **Jenkins** for automating Builds and Automating Deployments.
* Involved in building own **PaaS** with **Docker** deployed various applications through **Dockers containers.**
* Utilized Configuration Management tool **Chef** & created Chef Cookbooks using recipes to automate system operations.
* Written Cookbooks for various DB configurations to modularize and optimize end product configuration, converting production support scripts to **Chef** Recipes and AWS server provisioning using Chef Recipes.
* Written cookbooks for **WebLogic**, **Jenkins**, **JBoss** and deployment automation.
* Worked on **Ruby** to create **Chefbooks** and recipes and used ruby as well as to automate and used various libraries.
* Understand and follow the processes and procedures defined in the Man Standard Operating Procedures manual **(SOP)**.
* Managed all the bugs and changes into a production environment using the **Jira** tracking tool
* Created and maintained the **Python** deployment scripts for Web Sphere web application server.
* Build release of Cloud based products containing Linux and Windows environments, using **Python** Scripting.
* Implemented the use of **Nagios** tool for monitoring and analyzing the network loads on the individual machines.

**Environment:** GIT, Jenkins, Puppet, JIRA, Python Scripting, SQL, Docker, AWS, Puppet, Chef, JBoss, WebLogic, Linux.

**Catholic Health Initiatives, Denver, CO November 2012-January2014**

**Build and Release Engineer**

**Responsibilities:**

* Developed and supported the Configuration and Change Management Processes and procedures.
* Experience in migrating source code repositories from various version control systems like **SVN** to **GIT**.
* Performed Branching, Tagging, Release Activities on Version Control Tools like **SVN**, **GIT**,  **GITHUB.**
* Worked on several build tools like **ANT, Maven, and Gradle**.
* Written build scripts from scratch for new projects and for new modules within existing projects.
* Deployed Applications into PROD & Pre-Prod environments with various Application server technologies like **WebLogic**, **Apache Tomcat**.
* Involved in Installing **Jenkins** on a **Linux** machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Build and configured **Jenkins** slaves for parallel job execution.
* Worked with different Ansible playbooks and maintain different Ansible roles.
* Used Ansible server and workstation to manage and configure nodes, Managed Ansible Playbooks with Ansible roles. Used file module in Ansible playbook to copy and remove files from remote systems.
* Creating Ansible roles using YAML such as tasks, variables, files, handlers, templets and writing playbook for that particular role.
* Built and Deployed java source code into application servers in an **AGILE** continuous integration environment.
* Developed and maintained **UNIX/Perl** scripts for build and release tasks.
* Created and executed **SQL queries** to make sure the transactions are entered in database as expected.
* Involved In build and Deployment of various projects using **Web Sphere Admin console** and script files.
* Facilitated the Change Control Board and assessed Change requests for scheduled builds.
* Provided release updates to the management team and business liaison leads.

**Environment:** SVN, GIT, UNIX, Perl, Ant, Maven, XML, Chef, Puppet, Jenkins, SQL Server, Web Logic, Web Sphere, Apache Tomcat.

**Merck Pharmaceuticals, Hyderabad, India August 2011-October 2012**

**Build and Release Engineer**

**Responsibilities:**

* My Responsibilities include Searching, Learning, Training and Documenting on new DevOps tools which would fit in our current Eco-System..
* Performed all necessary day-to-day **Subversion** support for different projects and used **Subversion (SVN)** for managing files and configurations.
* Responsible for design and maintenance of the Subversion Repositories, views, and the access control strategies.
* Administered and Engineered **Jenkins** for managing weekly Build, Test and Deploy chain, **SVN/GIT** with Dev/Test/Prod Branching Model for weekly releases.
* Work with **QA** to facilitate verification of releases. Running multiple builds at a time.
* Wrote **Ansible** Playbooks with **Python, SSH** as the Wrapper to Manage Configurations of **Openstack Nodes** and Test Playbooks on AWS instances using **Python.**
* Build the code using build tools. (**Maven, Ant, etc.).**
* Converted old builds using **ANT to Maven and XML.**
* Responsible for creating and editing **ANT** Scripts.
* Modified the existing **ANT** scripts to suit the new project requirements.
* Developed **Jenkins Plugins** which integrates our In-house tools **with Jenkins.**
* Implemented **E2E pipeline in Jenkins** which would do the below activities:
* Designed and implemented automation deployment using to promote major releases, monthly releases, and patches from Development -> Integration/QA -> Staging/UAT -> Production.
* Used **Remedy** for issue tracking and monitoring.

**Environment:** CVS, SVN, Ant, UAT, SCM, Jenkins, Java, SQL Server, Remedy

**VIRTUSA - Hyderabad India May 2009-June 2011**

**Linux Admin**

**Responsibilities**

* Installation of operating system **Linux**, **Windows Server 2003**.
* Involved in Installing, Configuring and Upgrading of **RedHat** **Linux AS 4/5**, **Solaris 9/10** operating systems.
* Installed and configured **JBoss** application server on various Linux servers.
* Updating systems with new version of OS and application software
* Defined and maintained disaster recovery plans.
* System administration, maintenance and monitoring various day-to-day operations.
* Experience on File system issues and **Disk management**.
* Creating, deleting and modifying the **user accounts** on **Linux.**
* Installation and support of various applications and Databases including **Oracle**, **MySQL** along with **Web Logic 10**, **JBOSS 4.2.x**, **Oracle 10g**,**Tomcat**.
* User management, Creating and managing user account, groups and access levels.
* Through Knowledge of **Linux internals** and utilities **(kernel, Memory, Swap, CPU)**
* Package management using **RPM** and **YUM**.
* Automated some jobs by deploying the **CRON** tool for job scheduling processes.
* Monitored the Linux servers on a regular basis and was into tuning them accordingly in order to optimize performance.
* Monitored **Linux** **server** for **CPU Utilization**, **Memory Utilization**, and **Disk Utilization** for performance monitoring.
* Diagnosed and resolved problems associated with DNS, DHCP, NFS and Apache.
* Administer user accounts on all servers, configure user profiles, troubleshoot and resolve user login problems.

**Environment:** Apache Tomcat, Red Hat, Solaris, Linux, Web Logic, JBoss, MySQL, Oracle.