**Mohammad Aarif**

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**SUMMARY PROFESSIONAL:**

* Over **8+** **years** of experience in the fields of IT System Engineer including **5+ years of DevOps** automation, configuration management and Cloud services using AWS.
* Experience in different flavours of Linux such as Redhat **Linux** 5, x 6.x, 7.x8./**Centos** 5.x,6.x,7. with installation of OS, Upgrading and Patching of OS, Admin tasks.
* I have written shell/Bash script to automate the daily activities for like System Maintenance, Configuration Management, Backup and Restore, User Mgt etc.
* Supported **AWS** Cloud environment with multiple instances and configured various services of AWS such as EC2, EBS, ELB, IAM, AMI, VPC, S3, Auto Scaling, etc.
* Created DockerFile and Multistage DockerFile for Microservices
* Good Expertise on EKS Clusters, Provisioning of EKS Clusters through Terraform
* Experienced with virtualization using VMware ESX/ESXi environment.
* Experience on DevOps essential tools like **Ansible, Chef, Subversion (SVN), GIT, GitHub, Jenkins, Ant, Maven, Terraform, Docker, and Kubernetes.**
* Automate provisioning of AWS cloud infrastructure including EC2 instances, VPC, subnets, security groups, and Route 53 using **Terraform**
* Experience in Configuring, Automating and Deploying using Chef and Ansible for configuration management to existing Infrastructure.
* I have written and maintain multiple **Ansible** playbooks in **YAML** to automate tasks such as Package installation (OS Patching), User Management, File Management, Service Management, configuration management, and application deployments on Linux systems.
* Having good Experience on containerizing application tool **Docker** and **docker-swarm**.
* Experience in CICD tool like **Jenkins** (installing, configuring and administering Jenkins).
* Built CI/CD pipeline with Jenkins and AWS DevOps for Kubernetes container environment, utilizing Kubernetes, and Docker as the runtime environment for the CI/CD system to build test, deploy on dev, and prod environments.
* Experience in writing recipes in **Chef** for installing the packages like Apache, tomcat, Nginx in Linux
* Harness CI implementation and configuration with Delegate, Input Variables etc.
* Experience in troubleshooting the build and deployment failures.
* Good communicator with exceptional analytical, client management, relationship management and coordination skills.
* Have excellent problem solving, time management skills, ability to work independently or as part of a team.

**EDUCATIONAL QUALIFICATION:**

* Bachelor of Engineering in INFORMATION TECHNOLOGY from Nagpur University 2008-2012.
* Diploma in INFORMATION TECHNOLOGY from Autonomous Institute of Govt. Polytechnic, Nagpur.

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| **TECHNICAL SKILLS: Operating Systems** | Redhat Linux, Centos, Ubuntu, Windows |
| **Version Control Tools:** | Git, GitHub, SVN, Bitbucket |
| **Build Management Tools:** | Ant, Maven, Gradle |
| **CI/CD Tool:** | Jenkins, GitHub Actions, Harness |
| **Container Technology:** | Docker, Docker Swarm |
| **Scripting Languages:** | Shell/Bash, YAML scripting. |
| **Tracking/Ticketing Tools** | Jira, ServiceNow |
| **Container Orchestration** | Kubernetes, EKS, AKS |
| **Repository Management** | Nexus, JFrog Artifactory, SonarQube |
| **Configuration Management Tools** | Ansible, chef |

**PROFESSIONAL EXPERIENCE:**

**1) Persistent System Limited**

**Duration: - Oct 2024 – Current**

**Project: oneAdvanced:**

**Financials:** Cloud-based financial mgmt. solution includes real-time reporting, dashboards, financial analysis, Budgeting, forecasting and planning, fully integrated suite of financial management modules, Project Mgmt, Purchasing Mgmt.

**Environment**: AWS, GIT, Jenkins, CI/CD, Maven, Docker, Kubernetes, Linux, Jira, Bash script, SonarQube, AWS EKS, AWS ECR, AWS Artifactory, Harness CI/CD.

**Roles and Responsibilities: (DevOps-Engineer)**

* Designed and optimized Jenkins CI/CD pipelines for automated Docker image builds and deployments to AWS EKS clusters.
* Implemented withCredentials block in Jenkins pipelines for secure handling of AWS and Kubernetes authentication secrets.
* Diagnosed and resolved pipeline failures related to deployment errors, including artifact version conflicts and configuration inconsistencies.
* Investigated failed deployments, modified pipeline configurations, and successfully re-executed builds.
* Designed and implemented reusable Harness pipelines to automate artifact deployments across multiple AWS environments.
* Integrated AWS ECR with **Harness** Triggers to enable event-driven pipeline executions based on specific image tag patterns for customer portal products (e.g: deploy-afx-\*, deploy-portals-\*).
* Automated Kubernetes deployments in Jenkins using kubectl apply, including health checks and manifest rollouts.
* Configured and applied ClusterRoleBinding to allow Jenkins to deploy to EKS with required RBAC permissions.
* Troubleshot kubeconfig and authentication issues within Jenkins pipelines for seamless EKS access.
* Resolved RBAC and OpenAPI schema validation issues in EKS by applying appropriate ClusterRole, ServiceAccount, and RBAC configurations.
* Performed environment-level validation by checking application status, logs, and /health, /version endpoints post-deployment.
* Executed health and readiness checks using kubectl, systemctl, and Docker CLI for deployment verification.
* Triggered and validated scheduled jobs/tasks post-deployment in Kubernetes and Docker-based environments.
* Investigated failed Harness deployments, modified pipeline configurations, and ensured successful re-execution.
* Collaborated with engineering and platform teams to resolve deployment discrepancies and enhance observability.

**2) Exfinity Technologies Pvt Ltd, Hyderabad**

**Duration: - July 2019 – Aug 2024**

**Project-2:**

**Citizen Bank Capital Management System** As a top-tier provider of debt capital markets services, we offer syndicated loan origination, structuring and distribution services to support our clients including fully underwritten and best-efforts financings, secured and unsecured bank debt, junior capital, asset-based loans, fixed income.

**Environment**: AWS, GIT, Jenkins, CI/CD, Maven, Ansible, Terraform, Docker, Kubernetes, Linux, Apache Tomcat, Jira, ServiceNow, Bash/Python script, SonarQube, Nexus, MySQL.

**Roles and Responsibilities: (Devops-Engineer)**

* Designed Terraform modules to create custom sized VPC, subnets, and NAT to deploy Web applications and database templates.
* Designed roles and groups for users & resources using AWS Identity Access Management (IAM).
* Deployed instances in AWS EC2 and used EBS stores for persistent storage; configured & supported storage level.
* Installed and configured Splunk monitoring server and forwarded on all the nodes in the environment.
* Created inventory in Ansible for automating the continuous deployment and wrote playbooks using YAML scripting.
* Implemented and maintained the branching build/release strategies utilizing Subversion/GIT. Manage configuration of Web App and Deploy to AWS cloud server through Chef.
* Migrated VMware Virtual Machines to AWS and managed Services like EC2, S3, Cloud Formation, Route53, ELB, RDS, and VPC
* Created a Script to stop all the instances with a specific tag in Instance using Lambda functions and made it into Cloud Watch Scheduler to schedule it every night.
* Configured and administered Jenkins for managing weekly Build, Test, and Deploy chain, GIT with Dev/QA/Prod
* Analyzed code quality of the project's source code using the SonarQube code quality tool by performing a scan on the source code based on a set of standard rules.
* Installed and configured the Nexus repository manager for sharing the artifacts within the company. Created proxy.
* Created Grafana dashboards for various applications and monitored real-time and historical metrics.
* Worked on Docker container snapshots, attaching to a running container, removing images, and managing director.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, and test deploy.
* Deployed application which is containerized using Docker onto a Kubernetes cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS).
* Created Clusters using Kubernetes and worked on creating many pods, replication controllers, replica sets, services, deployments, labels, health checks, and ingress by writing YAML files.
* Configured Ansible Control Machine and wrote Ansible Playbooks with Ansible roles. Used file module in Ansible Playbook to copy and remove files on EC2 instances.
* Managed deployments in EKS managed Kubernetes, set up a multi-node cluster, and deployed containerized applications.

**Project-1:**

**Allegro** (allegro.pl): The largest e-commerce platform in Poland, offering a range of products.

**Roles and Responsibilities: (System-Engineer)**

* Installation, configuration and upgrade of Redhat Linux 3/4/5/6, VMware 4/5/6 operating systems.
* Installing **RedHat** Linux using Kickstart and applying security policies for hardening the server based on the company policies.
* Installing, and configuring RedHat servers, automating scripts coordinated with SAN Team for storage allocation and Disk Dynamic Multi path.
* Extensive use of LVM, creating Volume Groups, Logical volumes and disk mirroring in Linux.
* Worked on installing and configuring VMware/ESX Servers for virtualizations.
* Working on updating / upgrading ESX servers, Virtual Center servers and windows virtual machines using VMware Update manager and manual upgrades.
* Report status through JIRA tickets and track work effectively
* Day to day duties for UNIX/Linux server Maintenance and Support to developer’s team for their issues with application, tuning, troubleshooting, software running on UNIX/Linux Servers.
* Mitigation of crucial issues related to **Linux server, Jenkins, and monitoring.**
* Installed & configured Nagios on **Linux** servers.
* Maintenance of source code in GIT repositories for various market specific releases.
* Developed the POCs for the migration of the DR project from On-Prem to **AWS**.
* Supported AWS Cloud environment with 600+ **AWS** instances and configured Elastic IP and Elastic storage.
* Managed **Amazon Web Services** (AWS) infrastructure with Automation, implemented new AWS instances and worked with **EBS and S3 storage, IAM.**
* Launched and configured **Amazon EC2** Cloud Servers using AMI; s (Linux /Ubuntu).
* Configured Apache servers and controlled them from Jenkins master.
* Hiring process management for Linux administrator (Capacity Planning).
* Written Ansible Playbooks for CD and Patching of Servers.
* Experience implementing Chef, including the internal best practices, cookbooks, automated cookbook CI, and CD system. Made use of Jenkins for **Ansible, Terraform** for dependency management, and Test-Kitchen for testing and development.
* Implemented **SRE** Practices for various application and platform teams.
* Used Chef to automate Configuration management, Web Applications, Config Files, Data Base, Commands, user mount Points, and Packages, implied in testing cookbooks on different platforms using Chef Kitchen. Automated Weekly releases with **Maven** scripting for Compiling Java Code, Debugging, and Placing Builds into the Maven Repository.
* Using Chef to install and upgrade packages in infrastructure.
* I have written cookbook for installing and configuring the Applications.
* Integrated Git with Jenkins in continuous integration and configured Jenkins with Poll SCM builds trigger.
* Integrated Maven build tool with Jenkins to generate the war/ear files and archived them and stores in Artifactory (Nexus/JFrog).
* Build and deploy the project deliverables on test environments as distributed updates and promoting to higher environments.
* Deployed the artifacts in environments like DEV, QA, and UAT with Chef and Jenkins.
* Coordinating and interacting with various cross functional teams (QA Team, Dev Team, and Database Team).

**3) NESMA & PARTNERS, Al Khobar SAUDI ARABIA (KSA).**

**Duration: - Feb 2016 - Dec 2018**

**Roles and Responsibilities: (IT Administrator)**

* Deploying infrastructure on AWS utilizing services such as EC2, RDS, VPC and Managed Network and Security, Route 53, Direct Connect, IAM, Cloud Formation, AWS Ops Works (Automate operations), Elastic Beanstalk, AWS S3, Glacier, (Storage in the cloud) and Cloud Watch Monitoring Management.
* Maintaining Terraform for Infrastructure as Code for AWS, Azure and GCP.
* Experienced in creating AWS IAM and Security Group in Public and Private Subnets in VPC. Created AWS Route53 to route traffic between different regions.
* Launched AWS and Open Stack instances (SUSE/Ubuntu/CentOS) and configured launched instances with respect to specific applications.
* Involved in creating, configuring AWS VPC services, installed EC2 instances for the new development team, and used AWS Route 53 to maintain the traffic and to create the DNS name.
* Design roles and groups for users and resource tags using AWS Identity and Access Management (IAM).
* Provisioning AWS services like IAM, EC2, Auto scaling, EBS.
* Monitor and Troubleshoot the Network related problems.
* Client end installation and configuration of emails (Outlook Sync with Google).
* Provided functional and technical support, troubleshooting and diagnosing issues.
* Configure TP-Link (TL480+) SMB Load Balance Router as per the company requirements.
* Cisco Access point (WAP4410N) implementation and configure in Network.
* Asset management and controlling assets.
* System and server hardware and software support.
* Deploy patches, updates, remove/install programs, force policies as per the management recommendation.
* Create, update and delete user accounts in the available systems.
* Assist in troubleshooting, fixing Network equipment, Servers, operating system Database and related network or communication issues.