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<u>Summary</u>

Certified DevOps engineer with over 7 years of experience in the IT industry on AWS Cloud computing, CI/CD, Build and Release Engineer, System Engineer, and Unix/Linux Administrator. Experience in building and maintaining infrastructure on AWS.

- Excellent experience in Architecture and Administration of Amazon AWS cloud platform.
- Hands-on experience in implementing **Cloud Solutions** using various AWS Services including **EC2, VPC, S3, ECS, EFS, AWS Kinesis, Lambda, EKS, CloudFormation, CloudFront, EBS, CloudWatch, Elastic Beanstalk**, **RDS, Data Pipeline, DynamoDB, Redshift,** etc.
- Hands-on experience in Azure Development worked on **Azure web application, App services, Azure storage, Azure SQL Database, Virtual machines**, **Fabric controller, Azure AD, Azure search, and notification hub.**
- Designed and configured **Azure Virtual** Networks, subnets, Azure network settings, **DHCP** address blocks, **DNS** settings, and security policies and routing.
- Hands-on experience in creating **ansible playbooks** and constructing systems, package management, and configuration management using playbooks
- Production experience in large environments using configuration management tools like **Chef.**
- Hands-on experience on **ECS**, hosting web servers on containers, building custom **Docker images** by customizing **Docker files** or writing docker files from the scratch
- Experienced in Automated resource creation process using **JSON, Bash, and Python scripts** through pre-boot and bootstrapping processes.
- Experience in building applications of various architecture styles like Microservices architecture consisting of Restful web services and Docker container-based deployments.
- Experience working on **Docker and Kubernetes** for containerization, virtualization, Ship, Running, and deploying the application securely to fasten Build/Release Engineering. Involved in Provisioning AWS Infrastructure using **Terraform** scripts from **Jenkins**.
- Extensively worked on **Jenkins** for continuous integration and for End to End automation for all builds and deployments
- Expert in Branching, Merging, Tagging, and maintaining the version across the environments using SCM tools like **GitLab, BITBUCKET, and GitHub** on Windows and Linux platforms.
- **Recognized as "Jenkins engineer", "AWS – Certified Solutions Architect Associate", "Certified Kubernetes Administrator"**
- Experience in deploying serverless websites using **AWS Lambda**
- Experienced in keeping up and looking at log archives using monitoring tools like **Nagios, Splunk, CloudWatch, ELK Stack, Prometheus, and Grafana.**
- Lift and shift an existing on-premises application to AWS.
- Selecting the appropriate AWS service based on **data, compute, database, or security requirements.**
- Willingness to learn new languages, frameworks, and skills. A deep understanding of the value of Continuous Delivery and working together to help teams to release frequently and often to production with high quality.

Education

Master's in computer science & Engineering (M.S) From Texas A&M University
Bachelor of Technology-Information Technology (B.Tech) From JNTU

Certifications

- Amazon Web Services Certified Solutions Architect – Associate
- Jenkins Engineer
- Certified Kubernetes Administrator
- Oracle Certified Java Programmer

Technical Skills

AWS Services: Ec2, Elastic Beanstalk, EFS, VPC, RDS, S3, Glacier, IAM, Kinesis, CloudFront, Cloud Watch, Cloud Trail, Cloud Formation, DynamoDB, Lambda, Route53, SNS, SQS, API Gateway, Elastic Search, ECS, EKS, ELB, ALB, Autoscaling, etc.
Languages: Python, Java, Json, Bash, YAML
Source Code Management: GitLab, GitHub, Bitbucket, Code Commit
Build Tools: ANT, MAVEN, Gradle
CI Tools: Jenkins
Configuration Management: Ansible
Infrastructure as code: Terraform, CloudFormation
Containerization Tools: Docker, Kubernetes, Helm, Docker Swarm
Operating Systems: Linux (Red hat, CentOS, SUSE, Ubuntu, Solaris) WINDOWS, MAC
Database: MySQL, MongoDB, SQL Server, DynamoDB
Monitoring Tools: Nagios, Prometheus, Splunk, ELK Stack, Grafana
Web Servers: Apache Tomcat, JBOSS, WebLogic, Nginx, WebSphere

Professional Experience

NCR   **Nov 2021 – Present**
Sr. DevOps Engineer

Responsibilities:

- Engineered CI/CD pipelines using **Jenkins** for constantly integrating new code changes
- Automated repeated tasks using **Bash** and **Python** decreasing manual effort significantly
- Setup and maintained Dev, Staging, and Production environments for different sites
- Provided infrastructure resources like **Redis**, **Docker** server, **Kubernetes** cluster, **Rancher**
- Deployed several sites using multiple **Nginx** server configurations
- Built and maintained multiple **Kubernetes** clusters for different applications using **Rancher**
- Implemented **NewRelic** application monitoring for performance metrics in real-time to detect and diagnose application problems automatically.
- Designed and configured **Azure Virtual Networks (VNets), subnets, Azure network settings, DHCP address blocks, DNS settings, security policies, and routing.**

- Designed **Network Security Groups (NSGs) to control inbound and outbound access to network interfaces (NICs), VMs, and subnets.**
- Set up **Azure Virtual Appliances (VMs) to meet security requirements as software-based appliance functions (firewall, WAN optimization, and intrusion detection).**
- **Utilized NSGs for layer 4 Access Control List (ACLs)** for incoming and outgoing packets.
- Worked on **Kubernetes** to manage containerized applications using its **ConfigMaps**, selector, and Services and deployed application containers as Pods.
- Wrote **Ansible playbooks** which are the entry point for Ansible provisioning, where the automation is defined through tasks using **YAML** format and run Ansible Scripts to provision Dev servers.
- Developed **PowerShell** scripts to automate the project creation, setting permissions for users, and groups in **TFS**.
- Maintained services during deployment and in production by monitoring and measuring key performance and service level indicators including latency, availability, and overall system health.

Great Healthworks   **Jan 2020 – Nov 2021**
Sr. DevOps Engineer

Responsibilities:

- Worked on automating task-using Chef. Application as well as any upgrade to the nodes were pushed through CHEF and cloning it to **Gitlab**.
- Written **GitLab** CI pipeline **YAML** files to do a validation test before merging the code to the master.
  Utilized Blue-Green deployment during production for testing of the applications in order to reduce downtime.
- Utilized **GIT** repo for the cookbooks of my applications.
- Provisioned the AWS servers by running **chef-client** into the AWS nodes.
- Launched the AWS instances with the help of **Terraform** in the Latest, Stage, Load, and Prod environments.
- Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in Jenkins to move from one environment to another environments.
- Utilized **RUNDECK** for monitoring the CI builds and deployments for higher environments such as PROD.

- Container management using Docker by writing Docker files and setting up the automated build on Docker HUB and installing and configuring Kubernetes.

- Refactored the applications which are in AWS live using **DOCKER**.
- Wrote **Docker files** for the applications as required by the app teams.
- Managed **Docker orchestration and Docker containerization using Kubernetes.**
- Used **Kubernetes** to orchestrate the **deployment, scaling, and management of Docker Containers.**
- Implemented Patches to the **Chef-managed** servers in Cloud, IA, and digital and updated the kernel versions by using **Rundeck** scripts.

PurpleTalk, Dallas, TX   **Apr 2017 – Dec 2019**

DevOps Engineer

Responsibilities:

- Designing and implementing public and private-facing websites on **AWS Cloud**.
- Worked on creating a simple **CLI tool** to manage static websites hosted on **S3** and
- **CloudFront.**
- Worked on notifying slack channel about the status of **Autoscaling,** also used python requests module to make generic API requests over the web.
- Automated AWS infrastructure via **Ansible** and **Jenkins** -software and services configuration using **Ansible Playbooks**.
- Worked on implementing microservices on Kubernetes Cluster, used **istio** for service mesh, and installed Kubernetes on the cluster using **Kubeadm, EKS, and OpenShift**.
- Used Kubernetes to deploy, scale, load balance and manage Docker containers with multiple name-spaced versions.
- Used Jenkins for continuous integration and deployment into **Tomcat** application servers
- Configured and managed various AWS Services including **EC2, RDS, VPC, S3, Glacier**, **Cloud Watch, CloudFront, Route 53,** etc.
- Configured various performance metrics using **AWS Cloud watch & Cloud Trial**
- Proficiency in writing **Docker files** with best practices along with Docker container management along with volumes, container-based DB and services, **Docker Artifactory (Jfrog)** configuration and setup
- Written various **Lambda** services for automating the functionality on the Cloud.
- Used AWS **Route 53** for configuring the High-Availability and Disaster recovery to make the environment up and running in case of any unexpected disaster.
- Maintained the user accounts (**IAM), RDS, Route 53, VPC, RDB, DynamoDB, SES, SQS, and SNS services in the AWS cloud**.
- Deployed and configured **Git repositories** with branching, forks, tagging, and notifications
- Worked on AWS EC2, IAM, S3, EBS, Elastic Load balancer (ELB), and auto-scaling group services.
- Implemented working samples of a full CI/CD pipeline.
- Exposed virtual machines and cloud services in the Vents to the internet using **Azure** external load balancer.

SM Enterprises, Hyderabad, India   **May 2014 – Apr 2017**
DevOps Engineer

Responsibilities:

- Worked on **Amazon AWS EC2 cloud services** for installing, configuring, and troubleshooting various **Amazon images** like **Amazon Linux AMI, Red hat, and Ubuntu.**
- Responsible for day-to-day Build and deployments in pre-production and production environments.
- Designed **AWS CloudFormation** templates to create custom-sized VPC, subnets, and NAT to ensure successful deployment of Web applications and database templates.

- Built DNS system in **EC2** and managed all DNS-related tasks. Managed the configuration of the applications using chef.
- Built Object Oriented applications using Java, writing Shell Scripts on UNIX
- Performed the automation using **Chef** Configuration management.
- Converted and automated builds using **Maven**.
- Designed, and developed data integration programs in a Hadoop environment with **NoSQL** data store **Cassandra** for data access and analysis.
- Installing application and load balance packages on different servers using **chef.**
- Developed **GIT hooks** for the local repository, code commit and remote repository, code push functionality, and **GitHub**.
- Performed Server configuration management via **Puppet**. Transparent Data Encryption (**TDE**) implementation.
- Implemented multi-tier application provisioning in Amazon cloud Services, integrating it with **Puppet**.
- Formulated and executed design standards for **DNS** servers.
- Worked closely with software developers and **DevOps** to debug software and system problems.
- Worked on the creation of **Docker** containers and Docker consoles for managing the application life cycle.
- Used **Docker** containers for eliminating a source of friction between development and operations.
- Developed automation and deployment utilities using **Ruby**, Bash, PowerShell, Python, and Rundeck.
- Integrated builds with Code Quality Tools like Coverture, **PMD**, and Check style.