**Thota SomaSekhar**

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**Objective:**

Results-oriented Sr. DevOps Engineer with 10 years of experience and a proven track record of designing, implementing, and optimizing cloud-based infrastructure and CI/CD pipelines. Seeking a challenging position where I can leverage my expertise in DevOps methodologies, automation, and cloud technologies to drive efficiency and scalability.

**Professional Summary:**

* DevOps & Cloud Engineer with 10 years of experience in Servers, Linux/Unix, CentOS, SUSE and AWS/Azure cloud clustering.
* Extensive experience in designing, implementing, and managing scalable and highly available cloud infrastructure on platforms such as AWS & Azure.
* Good experience in the design and implementation of fully automated Continuous Integration and Continuous Delivery, Continuous Deployment pipelines, and DevOps processes for Agile projects (CI/CD).
* Used Jenkins as a continuous integration tool for creating new jobs, managing required plugins, configuring the jobs, selecting required source code management tools, building triggers, building system and post-build actions, scheduling, automatic builds, and notifying the build reports.
* Experience in installation, configuration, security, backup, recovery, and operating system upgrade Red Hat Linux (RHEL 5,6), Unix, CentOS, and Ubuntu.
* Proficient in deploying and managing containerized applications using Docker and orchestration tools like Kubernetes.
* Hands on experience on complete Linux administration(RHEL).
* Strong knowledge of configuration management tools such as Ansible, Puppet, and Chef for automating infrastructure provisioning and management.
* Expertise in implementing and optimizing CI/CD pipelines using tools like Jenkins to enable continuous integration and delivery of software applications.
* Experience designing and implementing containerized applications using Amazon Elastic Container Service (ECS) and Elastic Kubernetes Service (EKS).
* Skilled in monitoring and logging systems such as Prometheus, and Grafana to ensure high availability and performance of applications.
* Deep understanding of networking concepts, security best practices, and experience with implementing security measures in cloud environments.
* Excellent scripting skills in languages such as Python, Bash, and PowerShell to automate tasks and streamline workflows.
* Strong troubleshooting and problem-solving abilities to identify and resolve complex technical issues in a timely manner.
* Effective communicator and collaborator with the ability to work well in cross-functional teams and drive successful project outcomes.
* As a Build and Release/ DevOps engineer in Software Configuration and Release management includes source code, build and deployment management and complete understanding of Software Development Life Cycle.
* Extensive experience in designing, deploying, and managing Kubernetes clusters in production environments.
* Proficient in managing Kubernetes volumes for persistent storage requirements in containerized applications.
* Working experience in Continuous Integration setup. Configured multiple build jobs, integrated test cases, created distributed build environments, performed plug-in installations, backup. Etc. using Jenkins.
* Connected continuous integration system with GIT version control repository and continually build as the check-ins come from the developer.
* Working experience in continuous delivery, Infrastructure automation using Ansible.
* Hands on experience in creating docker images and pushing them to docker hub registry.
* Good experience in Amazon Web Services (AWS), Creating EC2 Instances and configuring all necessary services.
* Good exposure to Amazon Web Services like EC2, S3 bucket, EBS, ELB, Auto-Scaling, AMI, IAM through AWS Console
* Working experience on operating systems like Windows, SUSE, RedHat Linux, AIX, Debian, Centos & ubuntu.
* GCP services and tools you are experienced with, such as Compute Engine, Kubernetes Engine, App Engine, Cloud Storage and more.
* Good knowledge of programming concepts, OS related issues, Server configuration and build and release process.
* Written groovy scripts to use multi-branch pipeline projects in Jenkins to configure it as per client’s requirements.
* Responsible for Maintaining/Administration of GIT Version control tool. Create branches in GIT & provide access permissions to developers on a needy basis.
* Daily activities include creating builds for multiple projects, deploying the artifacts in multiple QA and DEV environments, and debugging issues.
* Deploying Applications (EAR, WAR, JAR) on clustered environment.
* Performing Build automation using Build automation tools like Jenkins.
* Worked on launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/Ubuntu) and configuring launched instances with respect to specific applications.
* Excellent communication, interpersonal, intuitive, analysis and leadership skills.
* Well-versed in all phases of software development life cycle. Worked with stakeholders like DEV, QA, Production control team...etc.
* Experienced in Source Code Management, Installing Package, Change Management and Software Builds & Release management.
* Entails troubleshooting and resolving build Issue and any deployment Issue (Application Related).

**Academic Qualifications:**

* Bachelor of Computer Science - Andhra University
* Diploma in .Net Technologies

**Certifications:**

* Associate - Information Storage and Management Version 4.0(ISM)
* Nutanix Certified Professional – Multi-cloud Infrastructure 5(NCP)

**TECHNICAL SKILLS**

Operating System : RHEL/CentOS 5.x/6.x/7, Debian, SUSE, Ubuntu, Amazon Linux.

Cloud Technologies : AWS (EC2, ELB, VPC, RDS, IAM, CLOUD FORMATION (IAC), S3,

CLOUD WATCH, Lambda, API Gateway, Service Catalog, Config, EFS, ECS, EKS.).

Virtualization Technologies : VMware, Oracle Virtual Box, Hyper-V

Scripting Languages : Shell scripting, Python, JSON, PowerShell, Ansible, Groovy.

Containers & Orchestration : Docker, Docker-swarm, ECS, Kubernetes, EKS

Configuration Management

Tools : Ansible, chef & Terraform

Versioning Tools : GIT Hub, GIT, Bitbucket

CI Tools : Jenkins

Build Tools : Maven

Bug Tracking Tools : JIRA, ServiceNow

Web Application servers : Apache Tomcat, JBOSS, Nginx

Monitoring Tools : Prometheus, Grafana, Amazon Cloud Watch, Nagios, Splunk

Networking/protocols : TCP/IP, VPC, subnets, VPN

SAN/NAS : Hitachi, NetApp, Isilon, Powerflex

Infrastructure Management

tools : VMware Vcenter 6.x GUI, PowerShell CLI, oneFS, RVTools

**Professional Experience:**

**Organization: Norwin Technologies (Dell EMC)**

**Designation: Sr. DevOps Engineer (AWS/Azure)**

**Duration: Jan 2020 – Present**

* Configuring, automation and maintaining build and deployment CI/CD tools GIT, Maven, SonarQube, Jenkins pipelines, Docker registry, and JIRA for Multi-Environment (DEV/QA/STAGE/ /PERF/PROD) with high degrees of standardization for both infrastructure and application stack automation.
* Created Docker images using a Docker file, worked on Docker container snapshots, removing images, and managing Docker volumes and implemented in AWS.
* Extensive experience in implementing and managing DevOps practices and tools on the AWS cloud platform.
* Utilized AWS ECS (Elastic Container Service) for containerized application deployment and management.
* Designed and implemented Azure Virtual Networks (VNETs) to securely isolate and manage resources within various projects, adhering to best practices for scalability and performance optimization.
* Configured custom subnets, route tables, and Network Security Groups (NSGs) to control traffic flow and ensure network segregation, contributing to enhanced security posture.
* Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods, and managed using Kubernetes.
* Proficient in managing Kubernetes volumes for persistent storage requirements in containerized applications.
* Used Terraform to set up the AWS infrastructures such as launching the EC2 instances, S3 buckets objects, VPC, Subnets, etc.
* Creating and maintaining Infrastructure for Applications in using Terraform. Building and Automating infra CICD pipelines for different applications using Jenkins and Azure Pipelines.
* Worked with Docker to package an application with all its dependencies into a standardized unit for Software Development.
* Utilized Azure ARM template functions and expressions to create reusable and scalable templates for virtual machines, storage accounts, virtual networks, and other Azure resources, promoting standardized deployments.
* Contributed to the creation of infrastructure as code (IaC) best practices and guidelines, ensuring version control, code review, and continuous integration/continuous deployment (CI/CD) pipelines for Azure ARM templates.
* Configured and optimized AWS Auto Scaling to dynamically adjust resource capacity based on application demand, ensuring cost-efficiency and high availability.
* Developed and maintained CI/CD pipelines using tools like Jenkins CI/CD, enabling automated deployment and continuous integration of containerized applications in Kubernetes.
* Product Integration responsibility of integrating all the available components and build single image file to be flashed.
* Designing and implementing fully automated server build, management, and deployment solutions spanning multiple platforms, tools and technologies including Jenkins Nodes/Agents, SSH, deployment and testing.
* Created build pipeline using Jenkins for continuous integration and automating the job configuration and Jenkins management using Groovy Scripts.
* Build and deploy the java EE applications and web based applications to middleware servers like Tomcat and JBoss using pipeline script through Jenkins.
* Implemented continuous integration using Jenkins.
* Assisting developers in Cherry-picking bringing individual changes to main &amp; integration

branches.

* Created repositories according to the structure required with branches, tags and trunks.
* Responsible for maintaining Multiple DevOps tools & configuring across all projects using GIT, Maven, Jenkins, Nexus Artifactory, Ansible.
* Configured web servers (Tomcat) to deploy the code.
* Extensive experience in administrating and configuring Jenkins server.
* Integrated Maven with Jenkins for the builds as the Continuous Integration process.
* Experience in deploying applications on Tomcat server.
* Worked in creating docker images and pushing them to docker hub.
* Developed and maintained CI/CD pipelines using Jenkins, GitLab CI/CD, and Kubernetes, enabling seamless continuous integration and delivery of software applications.
* Used Kubernetes to manage containerized applications using its nodes, Config Maps, selector, Services, and deployed application containers as Pods.
* Implemented infrastructure automation using Ansible and Terraform, reducing deployment time by 50% and ensuring consistency across environments.
* Design and implement highly available and scalable microservices architecture on AWS EKS using Kubernetes and Helm charts.
* Leveraged Terraform to define infrastructure as code, enabling rapid provisioning of GCP resources and improving infrastructure consistency.
* Managed Kubernetes clusters on GCP for containerized applications, ensuring high availability and scalability.
* Collaborate with developers to define application requirements and design Kubernetes manifests and Helm charts accordingly.
* Implement infrastructure-as-code using Terraform to provision and configure AWS resources such as VPC, EC2, EKS, and RDS.
* Monitored and optimized system performance using ELK Stack, Prometheus, and Grafana, resulting in improved application availability and response time.
* Designed and implemented scalable and highly available cloud infrastructure on AWS, including VPCs, EC2 instances, RDS databases, and S3 storage, resulting in increased system performance and reliability.
* Experience in designing, installing, and implementing Ansible configuration management system for managing Web applications, Environments configuration Files, Users, Mount points, and Packages.
* Managed virtual machines using OpenStack. This includes creating, launching, and terminating instances, as well as managing their lifecycle.
* Worked closely with development teams to streamline the release process, improve code quality, and ensure adherence to DevOps best practices.
* Conducted regular security audits and implemented security measures, including IAM policies, network ACLs, and SSL certificates, to safeguard infrastructure and data.
* Led incident response and troubleshooting efforts to identify and resolve complex technical issues, minimizing downtime and ensuring optimal system performance.
* Mentored and provided technical guidance to junior team members, fostering their professional growth and development.

**Organization: Mphasis (DXC, Ahold Delhaize & GiantC - US )**

**Designation: Sr. DevOps Engineer/Lead Engineer**

**Duration: Feb 2018 – Jan 2020**

**Responsibilities:**

* Assisted in the design and implementation of cloud infrastructure on AWS, including virtual machines (EC2), load balancers, and VPC, improving system scalability and performance.
* Implemented and maintained CI/CD pipelines using Jenkins and Docker, enabling automated builds, tests, and deployments of applications.
* Experience in build engineering and release management process, building and deploying applications by adopting.
* Experienced in creating Ansible playbooks, tasks, roles, and templates.
* Utilized Ansible as a configuration management tool to deploy consistent infrastructure across multiple environments.
* DevOps practices such as Continuous Development, Continuous Integration (CI), and Continuous Deployment (CD) in runtime with various tools like Git, Jenkins, Maven, Docker, Kubernetes and managing cloud services with AWS.
* Working on both Infrastructure as code IAC(Terraform) to provision both infra services IAAS and PAAS services in both Azure cloud provider/AWS and application deployment.
* Collaborated with development teams to optimize application performance, troubleshoot issues, and implement necessary performance improvements.
* Experience in integrating code quality tools such as SonarQube, JaCoCo, and Veracode in CI/CD pipelines.
* Designed and implemented end-to-end CI/CD pipelines using Azure DevOps, enabling rapid and reliable software deployments for web applications, microservices, and infrastructure updates.
* Collaborated with development and operations teams to define requirements, configure build and release stages, and integrate automated testing, resulting in reduced time-to-market and improved code quality.
* Implemented Infrastructure as Code (IaC) principles by creating ARM templates and Azure Resource Manager (ARM) deployments within Azure DevOps pipelines, ensuring consistent and repeatable infrastructure provisioning.
* Assisted in the implementation of security measures, including network security groups and access control, to enhance the overall security posture of the infrastructure.
* Set up CI/CD pipelines for Microservices and integrated tools such as Maven, GitHub, SonarQube, Nexus, Docker, and Slack for providing immediate feedback to DEV teams after code check-in.
* Developed and maintained the continuous integration and deployment systems using Jenkins, ANT, Maven, Nexus, Ansible and Run deck.
* Installed, Configured, and Managed Docker containers, Docker Images for Web Servers, and Applications servers such as Apache Tomcat using Docker.
* Hands-on experience in troubleshooting non-prod and production environment issues.
* Installed and configured Jenkins for Automating build, deployments, and test execution and providing a complete automation solution.
* Coordinated with the Development, Database Administration, QA, and IT Operations teams to ensure smooth transitions.
* Configuring the Docker containers and creating Docker files for different environments.
* Worked with Jenkins on building and continuous integration tools. Involved in writing Groovy scripts to automate the Jenkins pipeline's integration and delivery service.
* Good exposure to Amazon Web Services like EC2, S3 bucket, EBS, ELB, Auto-Scaling, AMI, IAM through AWS Console.
* Collaborated with development teams to optimize application architecture for containerization and Kubernetes deployment, resulting in improved performance and resource utilization.
* Configured and managed PersistentVolumeClaims (PVCs) to provide persistent storage to application pods, ensuring data persistence and availability even during pod restarts or rescheduling.
* Worked on creation of custom Docker container images, tagging, and pushing the images.
* Worked on creating the Docker containers and Docker consoles for managing the application life cycle.
* Creating scripts in DSL Groovy, which integrate with Jenkins for Automation to create Jenkins jobs.
* Responsible for maintaining Multiple DevOps tools & configuring across all projects using GIT, Maven, Jenkins, Nexus Artifactory, Ansible.

**Organization: Norwin Technologies**

**Designation: DevOps Support Engineer**

**Duration: July 2016 – Feb 2018**

**Responsibilities:**

* Extensive experience in supporting DevOps practices, including continuous integration, continuous delivery, and infrastructure automation.
* Collaborated with development teams to streamline the software delivery process, implementing CI/CD pipelines using Jenkins, Git, and Docker, resulting in faster and more reliable deployments.
* Provided support to development teams in configuring and troubleshooting CI/CD pipelines, identifying, and resolving issues related to build failures, test failures, and deployment errors.
* Assisted in the configuration and maintenance of continuous integration and continuous deployment (CI/CD) pipelines, facilitating automated software builds, testing, and deployments.
* Monitored and resolved issues related to build failures, test failures, and deployment errors, collaborating with development teams to identify root causes and implement corrective actions.
* Assisted in the setup and management of version control systems (e.g., Git), including repository creation, branch management, and code collaboration workflows.
* Provided support to 1000+ RHEL PROD servers on VMware Environments 24/7.
* Hands on experience of Installation, Configuration and troubleshooting of Red Hat Enterprise Linux 5 &6.
* Hands on experience of configuring and troubleshooting of disk based & distributed file systems like ext3, ext4.
* Resolved the tickets that are in the ticket queue and documented commonly known fixes and kept in the Knowledge base for the future purpose.
* Expertise experience in installing/upgrading the packages and doing patching during off business hours.
* Worked on increasing the size of file systems in Linux by using LVEXTEND.
* Linux OS patching
* NFS configuration & troubleshooting
* Configuring and Managing LVM related issues.
* Troubleshooting network related issue.
* Configuring and managing RPM & YUM packages
* Plan and work with the team on DR exercises
* Collecting and Analyzing Performance Statistics on several components (CPU, Memory utilization and DISK utilization)

**Organization: PVJ Infotech Pvt Ltd**

**Designation: Support Engineer**

**Duration: October 2013 – June 2016**

* Provided support to 1000+ RHEL PROD servers on VMware Environments 24/7.
* Hands on experience of Installation, Configuration and troubleshooting of Red hat Enterprise Linux 5 &6.
* Hands on experience of configuring and troubleshooting of disk based & distributed file systems like ext3, ext4.
* Resolved the tickets that are in the ticket queue and documented commonly known fixes and kept in the Knowledge base for the future purpose.
* Expertise experience in installing/upgrading the packages and doing patching during off business hours.
* Worked on increasing the size of file systems in Linux by using LVEXTEND.
* Linux OS patching
* NFS configuration & troubleshooting
* Configuring and Managing LVM related issues.