
SOWMYA MUTHYAPU

TX 78641 ♦ 5127632141 ♦ muthyapu.sowmya9@gmail.com

PROFESSIONAL SUMMARY

Highly experienced DevOps Engineer with 10 years of experience in bridging the gap between development and operations by creating an environment for efficient development, testing and deployment of Software. Skilled in cloud computing, containerization, infrastructure as code and Agile methodologies.

SKILLS

- **Cloud services:** AWS, GCP, Azure Cloud Services
- **Version Control Tools:** GIT, GitHub and Bitbucket
- **Web Technologies:** HTML, JavaScript, XML,JDBC, Cloud technologies, Nginx,SOAP
- **Defect Tracking Tools:** Jira, Rally, Bug Zilla, Confluence.
- **Containerization Tools:** Docker, Kubernetes
- **Configuration Management tools:** Salt, chef,puppet
- **Certifications:** AWS Certified DevOps Engineer - Professional
- **Operating Systems:** Red Hat Enterprise Linux,Solaris, SUSE Linux, Windows, MacOS
- **Scripts and Languages:** Shell Script, Batch Script, Java, SQL, Bash, Python, Power Shell, Yaml, Groovy
- **CI/CD Tools:** Jenkins/Hudson, ArgoCD, Bamboo,Kafka, ANT, Dockers, Ansible, Chef, Maven,Kubernetes, Selenium, JUnit, Quality Center(QC),Artifactory, Sonarqube, Harness.
- **Network Protocols:** DNS, SMTP, Ethernet, VPN,TCP/IP, FTP, HTTP & HTTPS
- **Database Systems:** Oracle 9i/10g-PL/SQL, Node JS, Postgres/SQL Server, Spring Boot, React JS, TOAD, SQL Navigator, MS Access, DB2, Oracle database 12
- **Infrastructure as code:** Terraform

WORK HISTORY

DevOps Engineer, 11/2023 - Current

Jetblue Airways Corp – New York, NY

- Provisioned AWS resources using Terraform (EC2,S3, RDS, DynamoDB, Route53, EBS, Elastic Load Balancer, Autoscaling groups).
- Responsible for building out and improving the reliability and performance of cloud applications and cloud infrastructure deployed on Amazon Web Services.
- Proficiency in using GCP networking services like Virtual Private Cloud (VPC), Cloud Load Balancing, and Cloud CDN.
- Knowledge of GCP's DevOps tools like Cloud Build, Cloud Source Repositories, and Cloud Deployment Manager.
- Contributed to creating a DevOps culture within the organization, leading to increased agility and cross-functional collaboration.
- Planned and executed large-scale migrations from legacy systems to modern platforms, ensuring minimal downtime and data loss.
- Integrated IAM with cloud services.
- Deployed and configured SIEM solutions using ELK.
- Responsible for building out and improving the reliability and performance of cloud applications and cloud infrastructure deployed on Amazon Web Services.
- Provisioned private AKS clusters using AKS CLI, configured Ingress and Ingress Load Balancers on those clusters.
- Developed custom scripts and tools to automate migration processes, reducing manual effort and increasing accuracy.
- Automated Kubernetes deployments at large scale using Helm in multiple clusters.
- Experience with network virtualization technologies, such as VPNs and SDNs.
- Mitigated security risks by conducting regular vulnerability assessments and applying necessary patches.
- Maintained version control systems like Git or Bitbucket for seamless collaboration among developers and engineers during project lifecycles.
- Optimized Docker performance and resource utilization.
- Worked with development teams to implement SonarQube recommendations, resulting in improved code maintainability and reduced security vulnerabilities.
- Facilitated the migration of on-premises cloud storage to Windows Azure using Azure Site Recovery and Azure backups, and deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets.
- Designed and deployed VMs on Azure, managed virtual networks to connect all servers, and created numerous ARM templates for the same cloud platform.
- Integrated CICD pipeline on Azure with Ansible to retrieve builds from the Jenkins repository and deployed them to the desired target environments, automating the build and deployment process.
- Worked on installing and administering Bitbucket with multiple stages like setting up branching strategy,

- creating merge checks, creating default reviewers for code review and webhooks to integrate other tools.
- Deployed and configured a Jenkins server on Azure to facilitate efficient and automated software builds.
- Implementation of Kubernetes with Docker to assist autoscaling and continuous integration.
- Analyze system, functional and business requirements to determine feasibility of design within time and cost constraints.
- Monitoring end to end application performance using AppDynamics, Stack driver to ensure health, performance and security of Application Stacks.
- Created and managed feature branches, regularly merging changes into main branch.
- Implemented branching strategies, such as Git Flow, to streamline development and releases.
- Containerizing applications like Bitbucket, Sonarqube, Artifactory, Confluence, Mattermost using Docker.
- Deploying Micro services to different environments i.e. DEV, QA, Stage and Production.
- Responsible for setting up version controlling systems on Bitbucket projects and repositories.
- Familiarity with Git commands, such as Git init, Git add, Git commit, Git push, and Git pull.
- Troubleshooting issues related to Continuous Integration and Continuous Delivery pipeline.
- Experience with Terraform workflows, including init, plan, and apply.
- Configuring firewall rules and NAT Gateways within the project to allow the services to talk to each other in a secure manner.

Cloud Site Reliability Engineer, 12/2020 - 01/2023

Epsoft Systems

- Implemented AWS solutions using S3, RDS, EBS, Elastic Load Balancer, and Auto scaling groups.
- Created cloud formation and Terraform templates and deploy AWS resources like EC2, Autoscaling, EBS and S3.
- Created S3 buckets and manage policies for S3 buckets and utilized S3 bucket and Glacier for storage and backup on AWS
- Designed and implemented scalable and secure Azure-based solutions, including Azure Virtual Machines, Azure Storage, and Azure Networking.
- Designed and implemented AWX/Ansible Automation Platform solutions for automating infrastructure provisioning, application deployment, and workflow management.
- Integrated AWX with other tools and platforms, such as Jenkins, Git, and AWS.
- Worked with development teams to integrate AWX/Ansible Automation Platform with Continuous Integration/Continuous Deployment (CI/CD) pipelines.
- Developed and maintained Ansible playbooks to automate deployment, configuration, and management of Linux servers and applications.
- Experience with GCP's cloud-native data warehousing and analytics services like BigQuery and Dataproc.
- Worked on Google cloud platform services (GCP) services like Compute engine, cloud load balancing, cloud storage, cloud SQL and Stack driver monitoring.

- Created and managed custom extensions and configurations for VSCode to enhance productivity and workflow.
- Created reusable and modular playbooks to streamline repetitive tasks and improve efficiency.
- Integrated Jenkins with various DevOps tools such as Nexus, SonarQube, Puppet, CA Nolio, HP CDA, HP ALM and HP QTP etc.
- Managed SVN repositories for branching, merging, tagging and developing shell/groovy scripts for automation.
- Worked on Docker hub, creating docker images, and handled multiple images primarily for middleware installations and domain configuration.
- Collaborated with development and support team to setup a continuous delivery environment with the use of docker.
- Worked with Terraform key features such as Infrastructure as a code, Execution plans, Resource Graphs and Change Automation.
- Familiarity with Prometheus's alerting and notification capabilities.
- Ability to optimize and fine-tune Prometheus configurations for performance and scalability.
- Created custom Docker images to streamline porting of legacy applications to Open Shift. Designed and distributed private cloud system solution using Kubernetes (Docker) on CoreOS and used it to deploy scale, load balance and managed Docker containers with multiple name spaced versions.
- Installation configuration and administration of MongoDB databases. Migration of data to/from mongodb using MongoDB, Cloud Manager.
- Knowledge of Git best practices, such as regular commits, meaningful commit messages, and branching strategies.
- Familiarity with Git collaboration tools, such as GitHub, GitLab, or Bitbucket.
- Knowledge of Grafana's features, such as alerting, notification, and annotation.
- Experience with Grafana's data visualization options, including graphs, tables, and heatmaps.
- Written Gradle, Maven scripts to automate build processes and managed Maven repository using Nexus tool and used the same to share snapshots and releases.
- Skilled in creating and managing Jira projects, including configuring workflows, fields, and screens.

Build and Release Engineer, 09/2017 - 11/2020

Ctouch Products

- Experience with GCP's cloud-native storage services like Cloud Storage, Cloud Firestore, and Cloud Persistent Disks.
- Familiarity with GCP's networking and connectivity services like Cloud CDN, Cloud Load Balancing, and Cloud NAT.

- Experience in defining the AWS Security Groups which function as virtual firewalls that control the allowed traffic to reach the EC2 Instances.
- Actively manage, improve and monitor cloud infrastructure on AWS EC2, S3 and RDS including backups, patches and scaling.
- Created Snapshots and Amazon Machine Images (AMI) of the instances for backup and creating clone instances.
- Designed and implemented Azure SQL Database solutions, including database architecture, performance tuning, and security.
- Migrated on-premises databases to Azure SQL Database IaaS and PaaS, using tools like Azure Database Migration.
- Optimized Azure SQL Database performance, using query optimization, indexing, and caching.
- Developed custom Ansible modules and plugins to extend the capabilities of AWX/Ansible Automation Platform.
- Implemented AWX/Ansible Automation Platform's analytics and reporting features to track and optimize automation performance.
- Monitored and troubleshoot Azure resources using Azure Monitor and Azure Advisor.
- Developed and managed Azure Functions, leveraging languages like C#, F#, and Node.js for serverless computing.
- Built and deployed serverless workflows using Azure Logic Apps, integrating with various systems and services.
- Implemented version control systems like Git and Mercurial, using VSCode's integrated tools for source control management.
- Utilized SonarQube's advanced features, such as multi-module projects, custom metrics, and gatekeeping.
- Managed software deployments across multiple environments, ensuring smooth releases with minimal downtime or disruptions.
- Achieved significant improvements in model performance through careful selection and fine-tuning of relevant hyper parameters.
- Managed Kubernetes cluster and its upgrades, setting up highly available environment with autoscaling and pod disruptions.
- Used Kubernetes monitoring and logging tools like Prometheus, Grafana, and Elasticsearch
- Knowledge of Git best practices, such as regular commits, meaningful commit messages, and branching strategies.
- Skilled in Git workflows, including branching, merging, and rebasing.
- Part of 24X7 customer impact analysis team, resolving critical incidents with real-time monitoring and alerting.
- Implemented continuous delivery pipelines using Jenkins, enabling faster release cycles and improved software quality.

- Collaborated with development teams to troubleshoot and resolve issues.
- Experience with Docker containerization and orchestration.
- Corrected, modified and upgraded software to improve performance.
- Created Grafana Dashboards for monitoring application health status.
- Automating Kubernetes deployments at large scale using Helm in multiple clusters.
- Configured Appdynamics and Sumologic for efficient monitoring of application.
- Collaborated with development teams to resolve build issues promptly, minimizing delays in project timelines.
- Implemented continuous delivery pipelines using Jenkins, enabling faster release cycles and improved software quality.

Product Release Engineer, 05/2014 - 08/2017

Belogic Systems

- Experience with launching and managing EC2 instances, including configuration and optimization.
- Knowledge of EC2 instance types and selecting the appropriate type for specific workloads.
- Monitored and optimized Azure resource performance, including troubleshooting and issue resolution, using Azure Monitor.
- Collaborated with development teams to deploy and manage Azure-based applications and services, using Azure DevOps and Azure Resource Manager.
- Demonstrated proficiency in Git workflows, including rebasing, squashing, and cherry-picking.
- Used Git hooks to enforce coding standards and automate tasks.
- Coordinated cross-functional teams during product launches to ensure seamless integration between development, QA, and operations.
- Experience in CI/CD with Jenkins implemented automation of new projects builds framework using Jenkins & maven as build framework tools.
- Developed build and deployment scripts using Maven as build tools in Jenkins to move from one environment to other environments.
- Used Maven as a build tool on Java Projects for the development of build Artifacts on the source code and Integrated with Jenkins for the builds as a Continuous Integration Process.
- Experience with Jira, a popular project management tool for tracking and managing issues, tasks, and projects.
- Implemented & maintained the branching and build/release strategies utilizing GIT.
- Evaluated emerging technologies to identify potential improvements in release process, recommending adoption of relevant tools and methodologies.

- Installing, configuring and updating Red Hat Linux 3/4/5 and CentOS on HP ProLiant /Dell servers using kickstart & support for various applications run on Linux environment, configuration, performance tuning and maintenance.
- Deployed Java applications into web application servers like JBoss.
- Developed automated processes that run daily to check disk usage and perform cleanup of file systems on UNIX environments using shell scripting and CRON.
- Created and customized Jira workflows, fields, and screens to fit team's needs.
- Tracked and analyzed project metrics, such as burn-down charts and lead time, using Jira's reporting features
- Managed Git repository, code merging & production deployments. Assisted developers with, applying appropriate branching, establishing labeling conventions using Subversion, Git source control.
- Troubleshooting application issues, build and deployment issues.
- Knowledge of Jenkins pipeline syntax and experience with creating and managing Jenkins pipelines.

EDUCATION

Bachelor of Science: Computer Science, 04/2014

AVN Institute

CERTIFICATIONS

- AWS Certified DevOps Engineer - Professional
- Badge link - https://www.credly.com/badges/32b78099-bbc2-499c-84e4-6fde4435fba5/public_url
- Certification ID - AWS04234844