Siva Swathi Muthineni

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**PROFESSIONAL SUMMARY:**

* Experienced and motivated DevOps Engineer with over 9+ years of expertise in designing, implementing, and optimizing continuous integration and continuous deployment (CI/CD) pipelines.
* Proficient in cloud technologies, infrastructure automation, and containerization, adept at collaborating with cross-functional teams to drive efficiency in software development and deployment. Seeking opportunities to leverage DevOps tools and practices to streamline workflows and improve software delivery in a dynamic setting.
* Successfully deployed DevOps solutions for a diverse range of agile projects, including deployments, testing automation, build and release automation, monitoring, service management, incident handling, and change management.
* Developed solutions for application deployments within Microsoft Azure and Amazon Web Services.
* Possesses hands-on experience with Azure services, including PAAS, IAAS, VSTS, Azure DevOps Services, Azure Automation, Monitoring, App Service, App Service Environments, and more.
* Well-versed in various phases of SDLC, including requirement gathering, system analysis, functional specifications, business logic design, coding, testing, performance optimization, documentation, implementation, and maintenance.
* Proficient in using a wide array of DevOps tools, including Puppet, Chef, Ansible, Jenkins, Terraform, GIT, and Splunk.
* Extensively worked with automation tools such as Jenkins to implement end-to-end automation processes.
* Automated deployments on Azure using Terraform, Azure Repos, and Azure Pipelines.
* Knowledge of log aggregation, indexing, and search technologies.
* Experienced with various Azure services, including PAAS, IAAS, Virtual machines, Application Insights, Key Vaults, Azure Databricks, ASE, App Service, Azure Blob Storage, Azure SQL Database, Visual Studio Code, Azure Pipelines, and ARM templates.
* Proficient in implementing Azure Build and Release Pipelines and creating ARM JSON templates and Terraform files for infrastructure-as-code deployments.
* Configured Build/Release agent pools, ensuring all prerequisites including .NET framework and PowerShell AZ module were in place. Utilized configuration management tools like Ansible, Chef, and Puppet for deployment and configuration tasks.
* Good experience in working with godoc, ginkgo, grpc, Goland, and AngularS in order to assist with the requirements.
* Familiar with monitoring and management tools such as Application Insights, New Relic, Grafana, SPLUNK, and ELK.
* Skilled in Docker-based container deployments, creating isolated environments for development teams and containerizing environment delivery for releases.
* Worked with Container Orchestration Platforms like Docker and Kubernetes.
* Experience in working with DevOps tool like SonarQube, Veracode, JFROG Artifactory and Jira.
* Proficient in continuous integration tools like Jenkins, setting up build pipelines and ensuring security in the Jenkins environment.

**TECHNICAL SKILLS:**

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| Programming Languages | Java, Python, .NET, PHP |
| Build Tools | Maven, Ant, Nexus |
| Continuous Integration | Hudson, Jenkins, Jira, API, Postgres |
| Ticketing tools | Jira, ServiceNow, Postgres |
| Configuration Management | Chef, Ansible, Puppet, Terraform |
| Version Control Tools | Subversion, TFS, GIT, GIT HUB, SVN, Bitbucket |
| Databases | MySQL, MySQL, Oracle, MySQL, Mongo DB, PostgreSQL, RDS, Elastic ache |
| Monitoring Tools | Dynatrace, Grafana, Nagios, Splunk, AWS cloud watch, ELK, Azure Monitor |
| Application Servers | Apache Tomcat, WebSphere, JBoss |
| Scripting | Ruby, Python, Golang, groovy, Unix Shell scripting, Node JS, XML, HTML, JAVA, JEE,Java Script, Angular JS, Power Shell, JSON, YAML, AWS Lambda. |
| Testing Tools | Junit, Selenium, Bamboo, Saltstack |
| Containerization Tool | Docker, Kubernetes, Postgres |
| Operating systems | Red Hat Linux, CentOS 6 &amp; 7, Ubuntu12.x, 13.x, 14.x, Windows 98, Vista,Windows Server 2003, 2008, 2012, VMware ESX and Mac OS. |

**PROFESSIONAL EXPERIENCE:**

**Client: Comcast Cable Communications LLC – Denver, CO Sep 2022 – Till date**

**Role: Sr. DevOps Engineer**

**Responsibilities:**

* Designing user roles and groups via AWS Identity and Access Management (IAM) and establishing network management using Security Groups and Network Access Control Lists in conjunction with IAM services.
* Employing AWS Beanstalk for the deployment and scaling of web applications and services developed in Java, PHP, Node.js, Python, Ruby, and Docker on well-known servers such as Apache and IIS.
* Monitored the Azure Resources using Azure Monitor and Web Apps for Application Insights and used the Grafana Monitor Tool to troubleshoot services, root cause analysis, and security solutions.
* Crafting and training new environments through Infrastructure as Code Pipeline in Terraform.
* Utilizing Ansible and Terraform for the automation of Cassandra-related tasks, including new installations, configurations, and basic server-level checks. Developed AWS Lambda and AWS S3 using GoLang.
* Implemented to automate the infrastructure using Azure CLI and was involved in accessing subscriptions using PowerShell and monitoring and troubleshooting Azure resources I have used Azure app insights.
* Orchestrating deployment structures via Kubernetes files on Urban Code-deploy and Urban Code-release.
* Initiating Amazon EC2 cloud instances using Amazon instances, including Linux and Ubuntu, and tailoring launched instances to accommodate specific applications.
* Developed GoLang Microservices and converted the user stories into backend logic in service classes.
* Configured and implemented the Azure Data Factory Triggers and scheduled the Pipelines; monitored the scheduled Azure Data Factory pipelines and configured the alerts to get notification of failure pipelines.
* Generating automation and deployment templates for both relational and NoSQL databases, encompassing MySQL, Cassandra, and MongoDB, within AWS.
* Exposure to Azure Data Factory activities such as Lookups, Stored procedures, if condition, for each, Set Variable, Append Variable, Get Metadata, Filter, and Wait.
* Moderated and contributed to the support forums (Azure Networking, Azure VMs, Azure Active Directory, Azure Storage) for Microsoft Developers Network inclusive of Partners and MVPs
* Automating the deployment of application and MySQL containers in Docker using Python.
* Developing Cloud Formation Templates (CFT) in JSON and YAML formats to construct AWS services with a focus on the Infrastructure as a Code (IaaS) paradigm.
* Establishing Continuous Integration by configuring Build and test automation (ATDD) Jobs in Jenkins, connecting them to Orchestration and UI layer Repositories in GitHub/Subversion.
* Deploying and configuring Prometheus for monitoring Kubernetes nodes with node-exporter, as well as monitoring Kubernetes API and resources with Kube-state-metrics.

**ENVIRONMENT:** AWS (EC2, S3, RDS, EBS, and Elastic Load Balancer, Auto scaling groups, and optimized volumes, EC2 instances), Jenkins, Docker, Docker containers, Git, Kubernetes, Ansible, YAML SRE, App Insight, Azure Data factory, Networking in Azure, scripting, Python Scripts, MongoDB, Chef, Maven, Azure VMs Puppet, Cassandra, Apache, Ant, Java, SonarCube, Jira.

**Client: AT&T, Dallas, USA DEC 2020 – Aug 2022   
Role: Sr. Azure Cloud Infrastructure Engineer**

**Responsibilities:**

* Developed a highly available application environment across Azure regions by using a combination of Azure services, including CDN, Azure Traffic Manager, App Services-Web Apps, Active Directory, Storage Queues, Cognitive Services, Azure Search, Storage Blobs, Redis cache, SQL Database, Azure Kubernetes Service (AKS), Azure Cosmos DB, Azure Databricks, Azure Event Hubs, and Azure Data Lake Storage.
* Demonstrated expertise in ensuring complete data encryption and actively participated in the configuration of various Azure components like Web apps, Function apps, V-net integration, HCM, Application gateway, App Insights, Active directory, Azure Key Vault, and security measures.
* Hands-on experience in the entire software development life cycle (SDLC), responsible for establishing connections between services, managing networking aspects, and executing migrations and implementations within the Azure environment.
* Enabled single sign-on access to multiple Cloud SaaS applications by implementing Azure Active Directory and implemented Azure RBAC for efficient access control and role segregation within the team.
* Utilized ARM templates for deploying resources through the Azure portal, incorporating Azure quick start templates for efficient cloud infrastructure design. Additionally, deployed web applications on Azure using Azure PowerShell Workflow.
* Proficient in managing Azure virtual machines, configuring virtual networks, designing ARM templates, and securing unstructured data storage using Azure Blobs.
* Designed and implemented Microsoft Azure Solutions across various cloud models such as PaaS, IaaS, and hybrid solutions, integrating on-premises and on-demand workloads with the Azure public cloud.
* Created and managed process control solutions using Rockwell Plant Pax for industrial automation.
* Oversaw the migration of SQL Server databases to SQL Azure Database using SQL Azure Migration Wizard and utilized Python API for uploading agent logs into Azure Blob Storage.
* Developed automation assets, graphical runbooks, and PowerShell runbooks in Azure Automation. Deployed Azure AD Connect, configured ADFS authentication flow, and installed ADFS using Azure AD Connect.
* Deployed Kubernetes clusters in Azure through Azure Kubernetes Service (AKS) using various deployment options like Azure Resource Manager Templates and Terraform.
* Implemented Kubernetes clusters with a master/minion architecture in both cloud and on-premises environments. Extensively used YAML files to create various services, including Pods, Deployments, Auto Scaling, Load Balancers, Labels, and Health Checks.
* Utilized virtualization with Docker for the TEST and DEV environments and configured Docker containers using Kubernetes.
* Managed container-based deployments using Docker, creating images from Docker containers, and pushing them to the Docker registry.
* Extensively worked with Kubernetes to set up clusters for POC and all stages (DEV, QA, STG, and PROD) for application deployments.
* Utilized Kubernetes for automating deployments, auto-scaling, and container-centric infrastructure management.
* Proficient in writing Terraform templates for provisioning multi-tier application architectures on cloud infrastructure. Deployed virtual machine scale sets in production environments using reusable Terraform modules.
* Utilized Terraform templates to automate the provisioning of Azure IAAS virtual machines, employing reusable Terraform modules, and successfully deployed virtual machine scale sets in a production environment.

**Environment:** *Microsoft Azure, AWS, Azure AD, Azure Queue Storage, Azure Cognitive Services, Azure Search, Azure Blob Storage, Redis Cache, Azure SQL DB, ARM templates, Azure Virtual Machines, Azure Blob Storage, SQL Server to SQL Azure transition, Python API, Azure Automation, Graphical and PowerShell automation scripts, ADFS, Azure Kubernetes Service (AKS), Azure Command-Line Interface, YAML configuration, Azure DevOps, Docker containers, Kubernetes orchestration, Terraform, and virtual machine scale sets.*

**Client: CVS Health-TX Aug 2019 – Nov 2020**

**Role: AWS DevOps Engineer.**

**Responsibilities:**

* Experienced in AWS Elastic Beanstalk for app Deployments and worked on AWS lambda with Amazon kinesis.
* Worked on creating the Docker Files to build the customized Images.
* Managed Ansible Playbooks with Ansible modules, implemented CD automation using Ansible, managing existing servers and automation of build/configuration of new servers.
* Used Jira as ticket tracking and work flow tool. Worked on Ansible core concepts like Inventory, Playbooks, Roles, Tasks and Modules.
* Responsible for developing and maintaining build, deployment scripts for test, Staging and Production environments using Maven.Utilized AWS services like EC2, VPC, Auto scaling, S3, EBS, ELB, CFT, LAMBDA, IAM, SNS, SQS, Dynamo DB, Elastic Bean Stalk and cloud watch services to build highly available, Scalable and self-healing Applications.
* Performed Auto Scaling, Elastic Load Balance (ELB) & AMIs and utilized EBS to store persistent data and mitigate failure by using snapshots.
* Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploys.
* Used Maven to build rpms from source code checked out from GIT/ Bitbucket repository, with Jenkins being the Continuous Integration Server and Nexus as repository manager.
* Used Jenkins file to automate the build trigger process whenever a branch is merged with master.
* Experience creating development workflows in Terraform Enterprise. Usage of Azure Artifacts as a source repository is a plus.
* Created the udeploy templates for components and applications, onboarded around 200 apps into udeploy to achieve continuous integration.
* Experience in deployment automation and related tooling (Terraform and AWS Cloud Formation).
* Experienced with setup, configuration and maintain ELK stack (Elasticsearch, Logstash and Kibana).
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers.
* Building/Maintaining Docker container clusters managed by Kubernetes, GIT, Docker, on AWS.
* Building, changing and versioning Infrastructure by handling multiple providers with terraform simultaneously.
* Created the AWS VPC network for the Installed Instances and configured the Security Groups and Elastic IP's accordingly.
* ARM templates writing, setup automation for resources provisioning Azure PowerShell
* Used Terraform for server provisioning.Installed and configured Nexus repository manager for sharing artifacts between internal teams and created proxy Nexus repositories to speed up the build process.
* Virtualized the AWS Servers using the Docker, created the Docker files and version controlled them.
* Worked on Cloud automation using AWS Cloud Formation templates.
* Created AWS S3 buckets, performed folder management in each bucket, Managed cloud trail logs and objects within each bucket.
* Created NAT gateways and instances to allow communication from the private instances to the internet through bastion hosts. Can set up and configure Azure environments (IaaS), services (PaaS), via automation and using the Azure portal. Associated in implementing SonarQube code quality checks.
* Integrated Jenkins with code quality analysis and Review tools like SonarQube.
* Responsible for creating & Managing Dockerfiles for creating necessary base images used for automation of build & deployment environments.
* Troubleshooting with the agent's problem in udeploy server.
* Implemented docker container creation process for each GitHub branch gets started on Jenkins as Continuous Integration (CI) server.
* Worked in clustering, deploying apps through Splunk deployment server, created roles and authentication.

**Environment:** AWS, Azure, Ansible, Git, Docker, Kubernetes, Terraform, Python, Java, Shell scripting, JIRA, Jenkins, Maven, Nexus, Apache Tomcat. SonarQube, Bitbucket.

**Client: USINE Technologies, Hyderabad, India Aug 2016 – March 2019**

**Role: DevOps Engineer**

**Responsibilities:**

* Worked on Azure DevOps, Created CI/CD pipelines for many processes and scrum bords and managed them also utilized many other features like board, tasks, test plans and artifacts.
* Created Fully Automation Pipeline for Build as Soon as Changes in the GIT- Repositories have made and deploy the code into the Resources that created.
* Linux container orchestration with Docker, Kubernetes, CoreOS, etcd, and more
* Worked on creating of custom Docker container images, tagging and pushing the images.
* Worked on Docker consoles for managing the application life cycle.
* Experienced with Docker container service
* Involved in building own PaaS with Docker; deployed various applications through Dockers containers
* Managed Kubernetes charts using Helm. Created reproducible builds of the Kubernetes applications,
* Managed Kubernetes manifest files and managed releases of Helm packages.
* Kubernetes architecture: node, kubelet manages pods, their containers, images, volumes, network etc.
* Created manually CI/CD pipelines to launch in each Environments (DEV/UAT/PRD) one after the other manually approval.
* Created Pipelines to automate creating multiple resources with single click when required by using ARM templets in the Resource Group.
* Created scrum board, backlogs, work items, queries, plans, used sprints for the regular update on projects, used calendar to report leaves and test plans.
* Did installed and setup/integrated many clients of SAP on VM’S and configured them to use for the process in Uat/PRD.
* Worked on Control and Security services of Azure and complete SDL.
* Have written a code in C# for webapp on VSTS for automating the data on web page from Azure Blob, in.NET.
* Have deployed many .NET codes on the resources like webapp, function app and many other resources on the infrastructure side and am responsible to manage those resources in different environments.

**Environment:** Azure, Azure DevOps, UiPath (orchestrator, studio, Robot), ABBYY, QRA, QQM, SHIBUMI, POWER-BI, SQL-Server & DB, Windows-10, windows-16, PowerShell.

**Client: Couth Info tech Pvt. Ltd, Hyderabad, India Feb 2014 – July 2016**

**Role: Unix/Linux Administrator**

**Responsibilities:**

* Installation and configuring of SUN Solaris and Linux servers.
* Involved in Building and configuring Solaris 8/9/10 using Jump start server and Red Hat Linux Servers using Kick Start server as required for the project. Maintained maximum uptime and maximum performance capacity for Enterprise Production, QA, and UAT/Staging.
* Incident management for Unix Servers (Solaris, Linux).
* Configured, tested and troubleshoot newly built Linux servers with nic card configurations, TCP/IP and applications that ran off TCP/IP stack.
* Worked on Installation and configuration of Puppet and Jenkins while assisting DevOps team.
* Worked on version control tool SVN.
* Worked on AWS, created instances and worked on various components in AWS.
* Creating a local YUM repository for installing and updating packages.
* Installation, configuration and upgrade of Apache, JBOSS, Web sphere, MQSeries, Oracle&IBM Databases on the RHEL and OEL Linux Systems manually and also through Puppet.
* Evaluated varied system logs and enforced good practices for web and application server environments.
* Configured servers and infrastructure running Red hat on JBOSS, using PUPPET to configure, install, manage and bring up JBOSS and applications.
* Developed Web application using Java, Servlets, JSP, JSTL, Java Beans, EJB, JNDI, JDBC, Struts, HTML, CSS, and XML.
* Experience in applying patches and plug-ins for JBOSS application server.
* Installed and configured JBOSS Application servers on DEV, QA and PROD Systems.
* Migrated Applications from UNIX (Solaris, AIX and HPUX) to Linux (Redhat) systems.
* Tuned OS parameters like SWAP and virtual memory settings to improve the JBOSS performance.

**Environment:** Solaris 8/9/10, Red Hat Linux 4/5, BMC Tools, NAGIOS, Veritas Net Backup, Korn Shell, Bash Scripting, Veritas Volume Manager, web servers, LDAP directory, Active Directory, BEA Web logic servers, AN Switches, Apache, Tomcat Web Sphere, Web Logic application server.