**Sathish K Thota**

**Sr. AWS DevOps Engineer**

**PROFESSIONAL SUMMARY:**

* Over 8+ Years of professional work experience as **a Build & Release/DevOps Engineer** with **AWS and Azure Cloud platform** experience with mentoring skills and a good understanding of the principles. Experienced in **Continuous Integration**, **Continuous Deployment/Delivery** integration pipelines.
* Experienced with languages including **Python,** **C, C++, C#, Dot NET**, and **JAVA**.
* Strong use of **Shell** scripting languages including **BASH** for **Linux** and **Mac** platforms and **PowerShell** for Windows systems.
* Facility with development methodologies including **Waterfall**, **Scrum**, **Kanban**, **Agile**, and hybrid.
* Excellent configuration management utilizing **Chef**, and **Ansible.**
* Experienced in Configuration Management, Cloud Infrastructure, and Automation utilizing **Amazon Web Services** (**AWS**), **Ant**, **Maven**, **Jenkins**, **Chef**, **SVN**, **Git**, **GitHub,** and **Tomcat**.
* Used **Azure Kubernetes** Service to deploy a managed **Kubernetes** cluster in Azure and created an **AKS** cluster in the Azure portal, with the Azure CLI, also used template-driven deployment options such as Resource Manager templates and **Terraform**.
* Extensive experience in **Azure Compute Services** worked on **Azure Web Applications**, **Azure SQL Database**, Content Delivery Network, **Virtual machines**, Azure Active Directory, **Key Vault**, **Azure VPN Gateway**, **Azure Fabric**, Azure search, App Services, and Notification hub**.**
* Secured Data is stored in MYSQL. **Vault**(by HashiCorp) Secures, stores and tightly controls access tokens and passwords used by overall platform.
* Implemented a **'server less'** architecture using **API Gateway, Lambda, and Dynamo DB** and deployed **AWS Lambda code** from Amazon S3 buckets. Created a Lambda Deployment function and configured it to receive events from S3 bucket.
* Expertise in Amazon **AWS** Cloud Administration which includes services like **EC2, S3, EBS, VPC, ELB, AMI, SNS, SQS, RDS,** IAM,

## Route 53, Autoscaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, OPS Work, Security Groups, etc.

* Extensive experience in Server infrastructure development on **AWS** Cloud.
* I worked extensively on **CI** tools like **Jenkins**, **Hudson,** and **Bamboo** for continuous integration and end-to-end automated build and deployments.
* Strong Experience in implementing Data Warehouse solutions in **AWS Redshift** Worked on various projects to migrate data from on-premises databases to **AWS Redshift, RDS, and S3**.
* Hands-on Experience of the **J2EE** Framework and its components as related to **JAVA** build, test, deployment, and release management initiatives.
* Configured **DOCKER** Containers for Branching purposes and deployed using Elastic Beanstalk.
* Worked with RedHat **OpenShift** container Platform for Docker and Kubernetes, used Kubernetes to manage containerized applications using its nodes, ConfigMaps, node-selector, Services and deploy application containers as pods.
* Involved in migrating version management systems from CVS to **SVN**, **SVN** to CVS, and **SVN** to **GIT**.
* Involved in editing the existing Ant/Maven groovy files in case of error changes in the project.
* Good experience working with container orchestration tools **Apache** and **Kubernetes**.
* Experience with container-based deployments using **Docker**, working with **Docker images, Docker hub, and Docker registries, installation,** and configuring **Kubernetes** and clustering.
* Implemented **Kubernetes** to deploy scale, load balance, scale and manage **Docker** containers with multiple names spaced versions.
* Experience in logging, monitoring, and maintaining applications/servers using tools such as **Nagios**, **Splunk**.

**TECHNICAL SKILLS: -**

**Operating System** LINUX (REDHAT, CENTOS, UBUNTU,), UNIX, RHEL/CentOS 5.x/6.x/7, Windows, Mac OS

**Cloud** AWS, Azure, OpenStack, GCP

**Versioning Tools** GIT, Subversion, Bit Bucket, Gitlab, GitHub

**CI Tools** Jenkins, Bamboo, Hudson, Chef, Puppet, Ansible

**Build Tools** MAVEN, Gradle, Ant

**Container Tools** Kubernetes, DOCKER, DOCKER swarm, OpenShift

**Bug Tracking Tools** JIRA, Rally, Remedy, and IBM Clear Quest

**Languages** JAVA/J2EE, Net, C, C++, PL/SQL

**Scripting** Shell scripting, Python, BASH, Golang

**Web Technologies** HTML, JAVA Script, XML, Servlets, JDBC, JSP

**Big Data Technologies** Kafka, Cassandra

**Web/App servers** Apache Tomcat, JBOSS, Web logic, Web Sphere

**Database** Oracle 9i/11g & 12C, SQL SERVER, MySQL, MongoDB

**Monitoring Tools** Splunk, Nagios, Grafana

**Education:**

**Master of Science: Computer Science,** University of New Haven, December 2020.

**Bachelor of Engineering: Computer Science**, JNTUK, India, May 2013.

**Certificates:** Aws Certified Solutions Architect - Associate

**PROFESSIONAL EXPERIENCE:**

**Client: Sycomp, Miami FL July 2022- Till Date**

**Role: Cloud DevOps Engineer**

**Responsibilities:**

* Designed, configured, and deployed Amazon Web Services (**AWS**) for a multitude of applications utilizing the **AWS stack** (Including **EC2**, **ECS, EKS, VPC**, **Glacier, Route53, S3, RDS, Cloud Watch, Cloud Trail, WAF, SNS, and IAM**), focusing on high-availability, fault tolerance, and auto-scaling.
* Created customized **AWS** Identity and Access Management (IAM) policies for various **AWS** resources to have required accessibility to required resources.
* Utilized Cloud Watch to monitor resources such as **EC2**, **CPU memory, Amazon RDS, DB services**, **DynamoDB** tables, and EBS volumes.
* Creating **S3** buckets and managing policies for **S3 buckets** and utilized **S3 buckets** and **Glacier** for storage and backup on **AWS**.
* Design **AWS Cloud Formation**templates to create custom sized **VPC,** **subnets,** NAT to ensure successful deployment of Web applications and database templates.
* Implemented a **'server less'** architecture using **API Gateway, Lambda, and Dynamo DB** and deployed **AWS Lambda** codefrom Amazon S3 buckets. Created a Lambda Deployment function and configured it to receive events from your S3 bucket.
* Integrated services like **GitHub**, **AWS** Code Pipeline, **Jenkins,** and **AWS** Elastic Beanstalk to create a deployment pipeline.
* Used Groovy scripts for CI/CD pipeline builds, and actively involved in the pipeline setups and Jenkins configurations.
* Involved in editing the existing Ant/Maven groovy files in case of error changes in the project.
* Created Azure automated assets, **Graphical runbooks**, **PowerShell** run books that will automate specific tasks. Expertise in deploying **Azure AD** connect, configuring ADFS installation using Azure AD connect.
* Extracted and loaded data into **Azure** Blob Storage and Snowflake databases using Azure Data Factory and Data bricks.
* Developed **Python** and **Shell scripts** for automation of the build and release process.
* Implemented a **CI/CD** pipeline with **Docker, Jenkins (TFS Plugin installed), Team Foundation Server (TFS), GitHub** and **Azure Container Service**, whenever a new TFS/GitHub branch gets started, **Jenkins**, our **Continuous Integration (CI) server**, automatically attempts to build a new **Docker** container from it.
* Implemented Jenkins pipelines into Azure pipelines to drive all microservices builds out to the Docker registry and then deployed to **Kubernetes**, Created Pods, and managed using **AKS**. Used **Kubernetes** to deploy, load balance, scale and manage docker containers with multiple name-spaced versions.
* Deployed 3-tier architecture infrastructure on AWS cloud using Terraform-IaC
* Integrated Ansible Playbooks with Terraform Templates to provision the infrastructure.
* Worked on **AWS IoT services** like **AWS IoT Core**, **Greengrass**, **AWS IoT Device Management.**
* Created an **API Gateway** to publish the data to **AWS IoT** core from the application using the HTTP request.
* Securing **AWS API Gateway** using **AWS Cognito** OAuth2scopes.
* Configured Various **IoT rules** to automate the process.

**Environment:** AWS, S3, EC2, ELB, IAM, VPC, SES, SQS, SNS, EBS, Cloud Trail, Jenkins, Python Scripts, Shell Scripts, Lambda, Groovy, GitHub, AWS IoT Core, Greengrass, AWS IoT Device Management, API Gateway, AWS MQ, Dynamo DB, Cognito, Cloud Formation, Terraform.

**Client: Harland Financial Solutions, Lake Mary FL Oct 2021 -June 2022**

**Role: Sr. Cloud DevOps Engineer**

**Responsibilities:**

* Designed, configured, and deployed Amazon Web Services (**AWS**) for a multitude of applications utilizing the **AWS stack** (Including **EC2**, **ECS, EKS, VPC**, **Glacier, Route53, S3, RDS, Cloud Watch, Cloud Trail, WAF, SNS, and IAM**), focusing on high-availability, fault tolerance, and auto-scaling.
* Created customized **AWS** Identity and Access Management (IAM) policies for various **AWS** resources to have required accessibility to required resources.
* Created and configured **AWS EC2** instances using preconfigured templates such as **AMI, RHEL, Centos,** and **Ubuntu** as well as used corporate-based **VM** images which includes complete packages to run build and test in those **EC2** Instances.
* Configured an **AWS** Virtual Private Cloud (**VPC**) and database subnet group for isolation of resources within the Amazon RDS MySQL DB cluster.
* Implemented **AWS High-Availability** using **AWS Elastic Load Balancing** (**ELB**), which performed a balance across instances in multiple Availability Zones.
* Used **AWS Beanstalk** for deploying and scaling web applications and services developed with **JAVA**.
* Creating **S3** buckets and managing policies for **S3 buckets** and utilized **S3 buckets** and **Glacier** for storage and backup on **AWS**.
* Utilized Cloud Watch to monitor resources such as **EC2**, **CPU memory, Amazon RDS, DB services**, **DynamoDB** tables, and EBS volumes.
* Worked on **AWS** Code Deploy and Auto Scaling Groups to implement Blue-Green Deployments for the various releases moving forward.
* Database Migration from **SQL** Server to **Amazon Redshift** using **AWS**, worked on the **AWS** Data pipeline to configure data loads from **S3** into **Redshift**.
* Automated **AWS** volumes snapshot backups for enterprise using **Lambda**.
* Integrated services like **GitHub**, **AWS** Code Pipeline, **Jenkins,** and **AWS** Elastic Beanstalk to create a deployment pipeline.
* Wrote **TERRAFORM** templates, **Chef** Cookbooks, recipes, and pushed them onto **Chef** Server for configuring **EC2** Instances.
* Integrated **Ansible** to manage all existing servers and automate the build/configurations of new servers.
* Designed the project workflows/pipelines using **Jenkins** for continuous integration and deployment into different Web/Application Servers.
* Built server automation with continuous integration/continuous deployment tools like **Jenkins**, **Maven** for the build management system.
* Created **ANT** and **MAVEN** to automate the build process for the new projects and integrated them with third-party tools like **Nexus**.

**Environment:** AWS, S3, EC2, ELB, IAM, RDS, VPC, SES, SNS, EBS, Cloud Trail, Jenkins, Chef, C#, .NET, Linux, ELK, JAVA, Ruby Scripting, Python, PowerShell, Shell Scripting, Subversion, SonarQube, Web sphere, Tomcat, JBoss, DNS, NIS, NFS, Cassandra, and SQL Server.

**Client: Paramount HealthCare Group Inc, Maumee, Ohio July 2020 – Oct 2021**

**Role: DevOps Cloud Engineer|(Azure)**

**Responsibilities:**

* Prepared capacity and architecture plan to create the **Azure Cloud environment** to host migrated **IaaS**, **VMs,** and **PaaS** role instances for refactored applications and databases.
* Performed implementation of the **Azure** Operations dealing with **IAAS infrastructure** (Azure VMs, Virtual Networking, Azure services, Website Deployments) and deployed application as **PaaS** (Websites, Web Roles, and Worker Roles).
* Created Azure automated assets, **Graphical runbooks**, **PowerShell** run books that will automate specific tasks. Expertise in deploying **Azure AD** connect, configuring ADFS installation using Azure AD connect.
* Extracted and loaded data into **Azure** Blob Storage and Snowflake databases using Azure Data Factory and Data bricks.
* Implemented a **CI/CD** pipeline with **Docker, Jenkins (TFS Plugin installed), Team Foundation Server (TFS), GitHub** and **Azure Container Service**, whenever a new TFS/GitHub branch gets started, **Jenkins**, our **Continuous Integration (CI) server**, automatically attempts to build a new **Docker** container from it.
* Extract Transform and Load data from Sources Systems to Azure Data Storage services using a combination of **Azure Data Factory, T-SQL, Spark SQL, and U-SQL Azure Data Lake Analytics**.
* Managing secret keys through **Azure key vault** and configuring API’s to access the key vault through authentication process.
* Used **Docker** to virtualize deployment containers and push the code to instances cloud using **PCF**.
* Migration of on-premises data (Oracle/ **SQL** Server/ DB2/ MongoDB) **to Azure Data Lake Store (ADLS) using Azure Data Factory (ADF V1/V2).**
* Used **Azure Terraform** to deploy the infrastructure necessary to create development, test, and production environments for a software development project.
* Implemented Jenkins pipelines into Azure pipelines to drive all microservices builds out to the Docker registry and then deployed to **Kubernetes**, Created Pods, and managed using **AKS**. Used **Kubernetes** to deploy, load balance, scale and manage docker containers with multiple name-spaced versions.
* Utilized **Kubernetes** and **DOCKER** for the runtime environment of the **CI/CD** system to **build**, **test**, and **Octopus Deploy**.
* Utilized **Puppet** to oversee Wed Applications, Configure Files, Database Commands, User Mount Points, and Packages.
* Involved in **JIRA** as a defect tracking system and configure various workflows, customizations, and plug-ins for **JIRA** bug/issue tracker integrated **Jenkins** with **JIRA**, **GitHub**.
* Building/Maintaining **DOCKER** container clusters managed by **Kubernetes Linux**, **BASH**, **GIT**, **DOCKER**, on **GCP (Google Cloud Platform)**.
* Worked with **OpenShift** platform in managing **Docker** containers and **Kubernetes** Clusters.
* Deployed the build artifacts into environments like QA, UAT, and production according to the build life cycle.
* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in **Jenkins** to move from one environment to other environments.
* Build a CI/CD pipeline to automate the process using the **Python** and **BASH** script.
* Created and maintained the **Python** deployment scripts for **Tomcat** web application servers.
* Configured **TFS** builds with continuous integration and builds notifications.
* Reviewed reports from the QA team and other reports from automated tools like **SonarQube**.
* Developed **Python** and **Shell scripts** for automation of the build and release process.
* Involved in editing the existing **ANT/MAVEN** files in case of errors or changes in the project requirements.
* Managed **Maven** project dependencies by creating parent-child relationships between projects.
* Installed, Configured, and Managed **Jenkins** CI Automation.
* Responsible for the Plugin Management, User Management, Build/Deploy **Pipeline** Setup, and End-End Job Setup of all the projects.
* **Jenkins** used it as a continuous integration tool for the automation of the daily process.
* Installed, Configured, and Managed **Nexus** Repository Manager and all the Repositories.
* Created **cookbooks** and recipes in **Chef** for continuous deployment.

**Environment:** Subversion (SVN), Jenkins, JAVA/J2EE, ANT, MAVEN, MS Azure, CHEF, TC Server, Tomcat, Python Scripts, Shell Scripts, Ansible, UNIX, SonarQube, Windows 7, Oracle, JIRA.

**Client: Big Lots Inc, Dublin, Ohio June 2016 – Dec 2018**

**Role: DevOps Engineer**

**Responsibilities:**

* Performed software configuration/release management activities for three different **JAVA** applications.
* Converted old builds using **MAKE** to **ANT** and **XML** for doing **JAVA** build.
* Expertise in using build tools like **MAVEN** & **ANT** to frame the deployable artifacts such as jar and war from source code as well as migrating of build tools from **Ant** and **Maven**.
* Build **JAVA** code and **.NET** code on to different **Jenkins’s** servers as per the schedule.
* Planning to move from **VCLOUD to GCP**
* Migrated applications to the PKS, **GCP** cloud.
* Set-up databases **in GCP using RDS, storage using S3 bucket,** and configuring instance backups to **S3** bucket. Prototype CI/CD system with **Git**Lab on GKE utilizing **Kubernetes** and **DOCKER** for the runtime environment for the CI/CD systems to build and test and deploy.
* Working closely with Web Administrators to set up an automated deployment for SharePoint applications using **Ant**hill and SVN Tools.
* Setting up continuous integration and formal builds using **Bamboo** with Artifactory repository.
* Involved in setting up **JIRA** as a defect tracking system and configured various workflows, customizations, and plugins for the JIRA bug/issue tracker.
* Planned and executed the **migration** from the Bugzilla-based bug-tracking and **Jenkins** CI tool into the **JIRA**.
* Integrated **Maven** with **SVN** to manage and deploy project related tags.
* Maintained and executed build scripts by coordinating with development and QA teams.
* Deployed the EAR and WAR archives into **WebLogic** and **Apache Servers.**
* Configured and Maintained **Apache** web servers for Release Management Team's internal use.

**Environment:** JAVA, .Net, MYSQL, PHP, Ant, Jenkins, Web Logic, ClearQuest, AntHillPro, Subversion, XML, UNIX, VB & Python scripting, MS SharePoint.

**Client: AIG Houston, TX August 2014 – May 2016**

**Role: DevOps Engineer**

**Responsibilities:**

* Migrate **SVN** repositories to **Git** and administrate **GitLab** to manage **GitRepositories.**
* Build and improve the reliability and performance of cloud applications and cloud infrastructure deployed on **Amazon Web Services.**
* Create and attach volumes on to **EC2** instances.
* Configure **AWS VPC** with public and private subnets.
* Apply Auto Scaling and Elastic Load Balancing to create high availability and fault tolerance to **EC2** instances.
* Install and configured **Apache** on **Ubuntu** and **Amazon Linux** instances.
* Primary duties include Build and Deployment of the java applications onto different environments like **Dev, QA, UAT and Prod**.
* Deployed **J2EE** applications to Application servers in an agile continuous integration environment and automated the entire process. Build scripts using **ANT and MAVEN** build tools in **Jenkins**, **Sonar** to move from one environment to other environments.
* Used **Jenkins& Puppet** to perform automated **CI Builds and Deployments.**
* Developed and implemented software release management strategies for various applications according to **Agile Process**.
* Deployed **Puppet** for configuration management to existing infrastructure.
* Virtualized the servers using the **Docker** for the test environments and dev-environment needs
* Involved in Installing **Jenkins** on a Linux machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Generated **Ant, Perl & UNIX** scripts for build activities in **QA**, Staging and Production environments.
* Build artifacts (war and ear) are deployed into a **Web Logic** app server by integrating the **WLST** scripts to **Shell Scripts.**
* Involved in troubleshooting of user interface using **JSP**.
* Used **Jenkins** to perform automated **Builds and Deployments.**
* Deployed **Java** applications to application servers in agile continuous integration environment and automated the entire process.
* Expert in User Management and **Plug-in Management for Jenkins**.
* Deployed the applications to **Tomcat Application Server** and static content to apache web servers.

**Environment:** Subversion, TFS 2010 Jenkins, .Net, Apache Ant, WebSphere, Web logic, IBM RTC, C++, JAVA, Windows, Unix scripting, Redhat Linux.

**Client: Reliance Info Comm LTD Mumbai, India Sept 2013 – June 2014**

**Role: Unix/Linux Administrator**

**Responsibilities:**

* Installed, upgraded, and configured **Red Hat Enterprise Linux 4/5/6.**
* Configuration and administration of **DNS, LDAP, NFS, NIS**, and NIS+ on Red Hat **Linux**.
* Hands-on experience working with production servers at multiple data centers.
* Automated server building using Kickstarting **RHEL 6** and Jumpstarting **Sun Solaris 10.**
* Troubleshooting production servers and configuring standalone production server for testing.
* Configured a yum repository server for installing packages from a centralized server.
* Created local repository in yum.repos.d to run packages using yum, rpm, and up to date.
* Configured and managed **SELinux** (**Linux** Firewalls) and allowed appropriate ports with help of tables.
* Installed and configured the **DCHP** server in **Linux** to give IP leases to production servers.
* Management of Red Hat **Linux** user accounts, groups, directories, and file permissions.
* Configured, managed **ESX VM's** with the virtual center and VI clients.
* Performed Disk management with the help of LVM (Logical Volume Manager).
* Configuration and Administration of **Apache Web Server** and **SSL**.
* Backup management using **CRONTAB**, running the backup based on client requirements.
* Password-less setup and agent-forwarding are done for SSH login using the ssh-keygen tool.
* Established and maintained network users, user environment, directories, and security.
* Documented testing procedures and steps involved in data migration on production servers.

**Environment:** RHEL 4/5, CentOS 4/5, Fedora 9/10/11(beta), Ubuntu 8.10/9.04 Server, Debian SID, VMWare ESX, Veritas File System, Veritas Volume Manager, Veritas Cluster Server.