**Sai Vemula**

**Email:** [**sntsh2621@gmail.com**](mailto:sntsh2621@gmail.com)

**Phone: +1(613) 663-5422**

**Professional Summary:**

* A Cloud enthusiastic team player having around **5+** years of experience in IT industry as a **DevOps/Cloud Engineer** with proven experience in involving cloud computing platforms like **Amazon Web Services (AWS), Azure. Continuous Deployment, Change/Release/Build Management, Linux System Administration, Support and Maintenance** in environments like Red Hat Enterprise Linux, CentOS and expertise in automating builds and deployment process using **Python, Golang** and **Shell scripts** with focus on **DevOps tools**
* Planned and worked on a hybrid cloud services program to leverage a **on**-**premises** cloud with public cloud services and from Cloud to Cloud such as **AWS** to **Microsoft** **Azure**
* Experience in DevOps tools such as **Maven, Jenkins, Chef, Ansible, Gradle, Docker, Kubernetes, Terraform, Vault, SonarQube.**
* Good Experience with **AWS Cloud platform** and its features which includes **EC2, VPC, EBS, AMI, IAM, ELB, SNS, RDS, EBS, S3, Auto Scaling, Cloud Front,** **Cloud Watch, EKS** and experience in Cloud Automation using **AWS cloud Formation** templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB and Security groups.
* Expertise in provisioning and Implementing **Azure Service** Offering, such as **Azure cloud services, Azure storage, IIS, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Azure, Blob Storage, Azure VMs, SQL Database, Azure Functions, Azure Service Fabric, Azure Monitor.**
* Experience in **Kubernetes** to deploy scale, load balance, and manage Docker containers with multiple names spaced versions using **Helm charts**
* Deployed application which is containerized using **Docker** onto a **Kubernetes** cluster which is managed by Amazon Elastic Container Service for Kubernetes (EKS). Configured ‘Kubectl’ to interact with Kubernetes infrastructure and used **AWS Cloud Formation Templates (CFT)** to launch a cluster of worker nodes on Amazon EC2 instances.
* Worked with **Terraform** key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Experience in creating **Docker Containers**leveraging existing Linux Containers and AMI's in addition to creating **Docker Containers**from scratch.
* Automated configuration management and deployments using **Ansible playbook.** Experienced in developing **Ansible roles** and **Ansible Playbooks** for the server configuration and Deployment activities.
* Developed **Maven and Gradle**Scripts to automate the build process. Managed the Maven Repository using Nexus tool and used the same to share the snapshots and releases of internal projects.
* Experience in automating deployment and administration of WebSphere Application Servers, **Tomcat, JBoss** and **WebLogic** Application Servers using console, via scripts and maintaining Load balancing and High availability.
* Extensively worked with automation tools like **Jenkins, TeamCity** to integrate tools (Maven, git, Selenium, Docker, Ansible, Puppet, Chef, and **Kubernetes**) to accomplish the goal and notify the status of the build by creating and mailing the reports to the members of team.
* Experience with monitoring and logging tools like **Nagios, App Dynamic, Prometheus** and **Splunk** for monitoring network services and host resources.
* Working knowledge of configuring the automation work flows in IBM **Urban Code** deploy for CI/CD.
* Monitoring of OS-level parameters and application-level monitoring using **Zabbix, Datadog** and **Nagios.**
* Proficiency in Multiple databases such as **Oracle, MYSQL, SQL Server, PostgreSQL and MongoDB.**
* Experience in Branching, Merging, Tagging and maintaining the version across the environments using **SCM** tools like **Subversion (SVN), GIT (GitHub) and Bitbucket**
* Closely worked with development, QA and other teams to ensure automated test efforts are tightly integrated with the build system and in fixing the error while doing the deployment and building.
* Organized and managed everyday administration tasks like adding and removing users, files, share permissions, trust management, replication management, Understanding the Demands of **24/7** System Maintenance server backups and server setups on LINUX.

**Technical Skills**

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| Operating systems | : | Linux (RHEL, CentOS, Ubuntu), Solaris, Windows variants, Mac OS |
| Infrastructure as a service | **:** | Amazon Web Services (AWS), Azure |
| Test, Build and Automation | **:** | Jenkins/Hudson, Chef, Ansible, Python, Maven, Ant, Hudson |
| Continuous Monitoring | **:** | Nagios, Cloud Watch, Prometheus, App Dynamic |
| Version Control Tools | **:** | Git, SVN, Bitbucket |
| Containerization | **:** | Docker, Kubernetes |
| Scripting Languages | **:** | Bash, Golang, Unix Shell-Bash scripting, Python, Java, Ruby, YAML |
| Databases | **:** | MySQL, Oracle, Cassandra, AWS RDS |
| SDLC | **:** | Agile, Waterfall, Scrum |
| Application/Web Servers | **:** | Web logic, WebSphere, Tomcat, JBoss |
| Networking/Protocol: | **:** | TCP/IP, DNS, DHCP, NIS, NFS, LAN, WAN, SMTP, FTP/TFTP |

**Professional Experience:**

**Client: NTT Data- Halifax, NS May 2020 – Present**

**NTT Data** leverage deep industry expertise and leading-edge technologies powered by AI, automation and cloud to create practical and scalable solutions that contribute to society and help clients worldwide. Our global team delivers one of the industry’s most robust and integrated portfolios. This includes consulting, applications, data intelligence and analytics, hybrid infrastructure, workplace, cybersecurity and business process services to help organizations accelerate and sustain value throughout their digital journeys.

**Role: DevOps/Cloud Engineer**

**Responsibilities:**

* Through experience in setting up and build **AWS** infrastructure in various resources, VPC, EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS, and RDS in cloud formation JSON&YAML templates.
* Support an Agile CI/CD Environment as a DevOps Engineer where we make the Atlassian tools (Jira and Bitbucket) and provide layer 3 supports on these tools if there are any issues.
* Used **Kubernetes** to manage containerized applications using its nodes, Config Maps, selector, services and deployed application containers as Pods.
* Worked on **Kubernetes**charts using Helm. Created reproducible builds of the **Kubernetes**applications, managed Kubernetes manifest files and Managed releases of Helm packages.
* Responsible for **design, implementation, management, and automation** of the **Azure public cloud** offerings for our client
* Aassisted with the **initial design, establish best practices,** andprovided **proof of concepts** for Azure Cloud Service deployments
* Developed **function** apps for various integrations between azure native services
* Operated in a hybrid cloud environment that spans multi-tenant private datacenters and public cloud
* Worked on different Azure native services such as **Azure Service bus, Storage accounts, Serverless, Function apps, Key vault**
* Worked on implementing backup methodologies by **Power Shell Scripts** for Azure Services like Azure SQL Database, Key Vault, Storage blobs, App Services etc.
* Experience in **Azure PAAS** offering, including azure integration services technologies such as Azure functions and azure service bus
* Worked on Azure Storage options and made POC on it and documented it on confluence
* Developed **DevOps CI/CD pipelines** and setup Jenkins jobs for development on the azure service bus
* Developed Azure cloud infrastructure for the team using **ARM** templates
* Build servers using **AWS,** importing volumes, launching **EC2, RDS,** creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection
* Migrated consumer data from one production server to another production server over the network with the help of **Bash and Perl scripting**
* Worked on **Authorization and authentication** of different azure native services and different use cases
* Worked on ARM template rollback options and made POC on it and documented it on confluence
* Used JIRA to track issues and Change Management

**Environment:** GIT,Puppet, Jenkins, Chef, Ant, Python, Perl, AWS, Jira,CI/CD,Docker,Ansible,PCF, Kubernetes, Terraform**,** VM Ware, Open stack, SonarQube, SVN and LINUX.

**Client: *Rane Pharmaceuticals Inc., Edmonton, AB* May 2017- March 2020**

**Rane Pharmaceutical** is a privately held North American chemistry contract research organization (CRO) company based in Edmonton, Canada. We are devoted to Synthetic and medicinal chemistry, Custom synthesis, Process development, Scale up, Structure-based drug design, and Chemical research and development. Our focus is to develop highly efficient, scalable and cost-effective synthetic method for complex medicinal chemistry targets, natural products and metabolites for our clients.

**Role: DevOps Engineer/Cloud Automation Engineer**

**Responsibilities:**

* Primary roles include **Build** and **Deployment** of the **Java applications** onto different environments

like **Dev, QA, UAT, and Production in AWS**

* Creating Cloud infrastructure and implementing CI/CD pipeline using **GitHub, Jenkins, Maven,**

**Chef on AWS and handling the issues in AWS cloud environments**

* Worked on core AWS services such as Setting up **EC2** instances, configuring Security
* Groups, setting up **Elastic IP's, Auto Scaling config, and Cloud Formation Templates**
* Developed in a load-balanced and highly available manner utilizing automation AWS best

practices

* Wrote **cookbooks** and recipes and uploaded in chef server to deploy machines to the environment
* Developed Docker images using **Dockerfiles**, managing & monitoring Docker containers and

**Kubernetes** clusters by using the very prominent tool: **Prometheus**

* Developed build and deployment scripts using **ANT** and **MAVEN** as build tools in Jenkins to move from one environment to other environments.
* Developed and Implemented Software Release Management strategies for various applications according to the Agile Process.
* Used **Shell** and **Perl** scripting to deploy artifacts that are built by Maven
* Managed **branches** and branching strategies in **subversion** and managed Dependencies using maven
* Developed Playbooks using **Ansible**. Automated agent's installation of Nagios on Windows servers and Linux servers
* Created and Implemented ANT and Maven build scripts for the JAVA applications and NANT and MS Build for .Net actively worked with application teams to understand current Deploy process
* Experience in **Linux/Unix- managing** the Users and Groups, Service Configurations, Storage
* Management and used **vagrant** to simulate the **production** environment of our app or website
* Hands on experience with **SQL, NoSQL databases and RESTful web services**
* **Implemented Blue/Green Pattern Deployment Methodologies** and rollbacks with zero downtime
* Sole person to be responsible for creating Release Pages in Confluence to document the key

information and for the deployments during Production nights

**Environment:** GIT,Puppet, Chef, Jenkins, Ant, Python, Perl, AWS, Jira,Maven,VMware, Terraform, Docker, Ansible, SVN, Kubernetes, PCF (Pivotal Cloud Foundry), Bitbucket, Octopus, SonarQube, Teamcity and LINUX.

**Client: Tech Mahindra, Hyderabad- India. June 2016 – April 2017**

**Tech Mahindra** enjoys a leadership position in utility vehicles, information technology, financial services and vacation ownership in India and is the world’s largest tractor company, by volume. It also enjoys a strong presence in agribusiness, aerospace, commercial vehicles, components, defense, logistics, real estate, renewable energy, speedboats and steel, amongst other businesses.

**Role: Build and Release Engineer/Software Engineer**

**Responsibilities:**

* Worked as **Build and Release Engineer/Software Engineer** for a team that involved different development teams and multiple simultaneous software releases
* Designed and implemented the workflows as per the requirements for the software development and deployment following best practices in the industry using lean-agile methodologies
* Configured and maintained Jenkins to implement the **CI/CD** pipeline allowing for early **Quality Assurance Testing and reduction in deployment team efforts by 50%**
* Automated the deployment process using shell **scripting**, **python**
* Exposed to all aspects of Software Development Lifecycle (SDLC) such as Analysis, Planning and Developing, Testing
* Experience with **HTML**, **CSS** in developing websites
* Deployed using builds tools like MAVEN and ANT for the building of deployable artifacts such as jar, war, and ear from source code
* Implemented AWS solutions using **EC2, S3, RDS, EBS, Elastic Load Balancer, Auto scaling groups**
* Involved in Installing **Jenkins** on a Linux machine and created a master and slave configuration to implement multiple parallel builds through a build farm
* Built and Deployed java source code into application servers in an agile continuous integration environment
* Managing Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Ansible, Puppet, or custom-built. Designing cloud-hosted solutions, specific AWS product suite experience
* Worked on the transition project, which involves migration activities from Ant to Maven in order to standardize the build across all the applications
* Coordinated application release with Development, DBA, QA and project management teams
* Jenkins is used as a continuous integration tool for build and deployment of JAVA code
* Automated the deployment and server bounce for JBoss Applications
* Build artifacts (war and ear) are deployed into a JBoss app server using Shell Scripts

**Environment:** Subversion, GIT, Puppet, Chef, AWS, Java/J2EE, ANT, MAVEN, Jenkins, JIRA, LINUX, Web logic, Pythons, Ruby, Perl Scripts, Shell scripts windows.

**References:** Will be provided upon request.

**Education**

Bachelor of Technology in Computer Science

Jawaharlal Institute of science and Technology