

**Vamshi. S**

**Professional Summary:**

* Over 16 years of experience in Cloud automation, DevOps, Build and Release Management.
* Implemented production ready highly available fault tolerant Kubernetes infrastructure.
* Containerized all the application SpringBoot Java and Node.js applications using Docker.
* Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and managed releases of Helm packages.
* Experience on DevOps and cloud automation on IaaS (Amazon Web Services)
* Experience on AWS EC2, VPC, ELB, Code-deploy agent, S3 bucket, and cloud formation, RDS, Route 53, Code Build, Cloud Watch, Identity Management and AWS CLI.
* Experience in creating various kinds of build jobs in Jenkins such as pipeline project, multi-configuration, freestyle, and parameterized triggered builds, etc.
* Experience with maintaining Docker containers and Docker images for run time environment.
* DevOps experience with AWS, Terraform, Jenkins, Ansible, Docker, kubernetes.
* Experience with maintaining Docker containers and Docker images for run time environment.
* Created user level of access for related GitHub project directories to the code changes.
* Created and wrote shell scripts BASH, Python and Power shell for automating tasks.
* Experienced in writing automation scripts using Shell, Python
* Experience in Software Integration, Configuration, building, automating, managing and releasing code from one environment to another environment and deploying to servers.3
* Excellent communicative, interpersonal, intuitive, analysis and leadership skills with ability to work efficiently in both independent and team work environments.

**Technical Skills:**

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| **Operating System:** | Red Hat Linux, CentOS, Ubuntu, Sun Solaris |
| **Scripting Tools:** | Shell, Python, Go, JSON, Yaml, Groovy |
| **CI/CD** | Git Labs, Jenkins, Argo CD, Azure Devops |
| **Version Tools:** | Git, Bitbucket, GITlab, Github |
| **Container Orchestration** | Kubernetes, Docker Swarm, AWS EKS |
| **Provisioning Tools** | Terraform, CloudFormation |
| **Configuration Management:** | Ansible, Salt |
| **APM tools:** | Prometheus, Grafana, Data Dog, Splunk, Instana, API Fortess, Kibana, Cloud Watch, Elastic Search, Fluentd. |
| **Web and middleware:** | Tomcat, APACHE 2.x, 3.x, F5 Load Balancers, Web Logic (8/9/10/12) & Web Sphere 4.0/5.0, Netscape/iPlanet Server, MQ Series, Cluster server 3.5 & 4.1, Sun Cluster 2.x & 3.x, Nagios, Nginx, Ganglia. |
| **Virtualization:** | VMWare, Vagrant, KVM, Elastic Container service. |
| **Cloud:** | AWS (EC2, IAM, S3, Cloud Watch, RDS, Elastic Cache, ALB, NLB, ELB, EBS), Microsoft Azure, Rackspace, OpenStack, Cloud Foundry. GCP |
| **Database** | RDS, Aurora, MySQL, MS SQL Server, Oracle9i/10g, Cloud Storage, Cassandra, MongoDB |

**Education & Certification:**

* Bachelor’s in Commerce & Computer Science, Kakatiya University, India – Graduated in 2001
* CKA: Certified Kubernetes Administrator
* HashiCorp Certified: Terraform Associate (003)

**Professional Experience:**

**Charter Communications, Denver, CO**

**Sr. Devops engineer. July 2019 to till date**

* Design and implement continuous build-test-deploy (CI/CD) system with multiple component pipelines using GITlab/ Jenkins to support bi-weekly releases and hotfix based on business requirements.
* Container-based deployments. Using Docker, working with Docker images, helm charts in Kubernetes.
* Automating, configuration and deploying instances on AWS, Azure Cloud Environments and Data centers.
* Create Jenkins and GITlab pipelines to drive all micro services builds out of the artifactory, and then deployed to Kubernetes clusters.
* Build and maintain Docker container clusters managed by Kubernetes Linux, Bash, GIT, and Docker on AWS. Utilized Kubernetes and Docker for the runtime environments of the CI/CD system to build, test and deploy
* Implement AWS solutions using EC2, Cassandra, Redis, Kinesis, RDS, EBS, Elastic Load Balancer, and Auto scaling groups.
* Write Terraform templates for AWS infrastructure as code to build non production environment and defined terraform modules to reuse in different environments.
* Used Terraform to write infrastructure as code and created Terraform scripts for creating infrastructure like Redis cluster, kinesis streams, roles, and security groups.
* Proficient in using Splunk for log management and analysis, enhancing operational visibility and troubleshooting capabilities.
* Implement Continuous Delivery framework using GITlab, ArgoCD, Maven, and Nexus in Linux environment.
* Create monitors, alarms and notifications for infrastructure and application health checks in Datadog.
* Implemented a Continuous Delivery pipeline with GITlab and Jenkins.
* Scripting in multiple languages on UNIX, LINUX, Shell scripts, Python etc.
* Identify, troubleshoot, and resolve issues related to build and deploy CICD process.
* Writing build (maven) and deployment scripts (shell) to automate build and deployment of the application.
* Create Kubernetes cluster using KOPS (Kubernetes Operations).
* Automated infrastructure creation using Terraform using GITlab pipelines.
* Experienced in Azure DevOps in Using Azure repos as source control management to host code in private Git repositories and other Git Workflows and to collaborate with Developers to Develop high quality code, creating branches and pull requests.
* Used Azure DevOps services like Azure Boards, Azure pipelines, Azure Artifacts to easily deploy applications in either on premises or on any cloud provider service and also creating, managing and automating build and release pipelines into cloud deployments.
* Proficient in Using Azure Kubernetes for CI/CD pipeline to scale and manage multiple instances of microservice applications and APIs, containerize applications, and scaling services based on load and to quickly deploy and manage APIs at scale in a repeatable way.
* Experienced with Azure Monitoring services to maximize the availability and performance of the applications and services as well as to Detect and diagnose issues across applications and dependencies using Application Insights and to proactively identify infrastructure issues with VM insights and Container insights.
* Implemented Dynatrace for application performance monitoring, enabling proactive identification of performance issues and bottlenecks.
* Experienced in writing reusable Terraform templates to build the production env to manage deployments in Azure cloud and to create services AKS, ACS, Azure pipelines, Storages, Service fabrics, VM Scale sets.
* Create Helm charts and templates.
* Integrating automation test with application deployment pipeline.
* Implement a comprehensive monitoring and logging strategy to support the Application logs, cloud logs and system logs using Used Grafana with Prometheus and Datadog for container insights.
* Implement service mesh for service discovery and application deployment and monitoring.
* Creating and configuring applications in ArgoCD for continuous deployment.
* Design and implement AWS ALB, NLB, ELB, and WAF using NGINX.
* Setup Nginx ingress controller to manage the ingress/egress routing rules for Kubernetes.
* Create Kubernetes manifest, helm charts for deployment of microservices.
* Managing releases deployment through helmfile in all environments.

**Environment:** Gitlab, GitHub, Jenkins, Kubernetes, Helm, Helmfile, Istio, ArgoCD, AWS, Docker, Terraform,Jira, Unix/Linux, Bash Shell Scripting, Python, Groovy, Kafka, Apache Tomcat, Cassandra, MongoDB, Nginx, Artifactory, Splunk, SonarQube.

**Freddie Mac, Mclean, VA Nov 2018 to June 2019**

**Devops Engineer**

* Managed servers on the Amazon Web Services (AWS) platform instances using Ansible configuration management.
* Experience on Amazon EC2, EBS, IAM, AMI, S3, VPC and Elastic Load Balancing services.
* Manage Jenkins pipeline for Continuous Integration and Continuous Delivery (CICD).
* Utilized Splunk’s search capabilities to analyze large datasets, driving insights for performance optimization and incident response.
* Conducted training sessions on Splunk and Dynatrace best practices, fostering a culture of data-driven decision-making within the team.
* Created branches and managed the source code for various applications in GIT, Maven, and Jenkins.
* Handling the daily and weekly builds to various environments and make sure that, the environment is up all time.
* Optimized volumes in EC2 instances & created VPC's and instances in multi Availability Zones
* Responsible for build and deployment automation using AWS, Docker, Kubernetes containers.
* Managing Docker images using a Docker file, container snapshots and removing images.
* Used Jenkins pipeline to drive all microservices builds out to the Docker registry.
* Performing Branching, Tagging & Merging the code between branches.
* Configuring, Troubleshooting and Monitoring build jobs in Jenkins.
* Building various Jobs on servers in different environment like QA, UAT, SIT, Perf, and CTE.
* Deploying WAR and JAR Application on targeted managed Servers by using Jenkins.
* Using Git as **version** Control System and Automating the Code from GitHub to Jenkins.
* Work with Developers on the build issues (Build Failures).
* Maintain and monitor daily builds and providing proactive support for ongoing release by setting up new environment or resolve any build issues.
* Manage Ansible playbooks for application deployment integrate with Jenkins pipeline.
* Debugging build failures, coordinating with developers and testers to resolve related issues.
* Setup various Jenkins jobs for build automation.
* Getting the CR approvals, etc targeted for the releases by discussing with teams involved and the application owners.
* Develop the release plans for all the applications for the deployments
* Coordinated releases with development and testing teams to ensure systems are ready for code to be deployed.

**Environment:**  Jenkins, Ansible, Docker, OpenShift, GIT, ANT, MAVEN, , Python, BASH & KORN Shell, Weblogic, Tomcat, Oracle, DB2, VMware, JFrog Artifactory.

**T-Mobile, Seattle, WA May 2016 to Oct 2018**

**DevOps Engineer**

* Deployed applications in public and private cloud infrastructure.
* Created cloud infrastructure in multiple regions and availability zones.
* Created cluster applications by configured load balancer and high available environment.
* Created new VPC, subnets, and cloud infrastructure.
* Designed application infrastructure and developing solution.
* Provided issue resolution in production and non-production application.
* Performed client upgrades from legacy versions to latest versions of product.
* Tested and validated security venerability, provide security patches and updates.
* Deployed and manage and integrate applications in Oracle Weblogic, Tomcat application servers.
* Installed and configured weblogic domains.
* Install, configure, patch, and upgrade components.
* Experienced in setting up dashboards and alerts in Splunk to monitor system performance and detect anomalies in real-time.
* Configured and deployed SSL Certificates.
* Developed high availability and fault tolerance application infrastructure.
* Created Apache load balancer for fault tolerance and high availability.
* Created application deployment scripts for manual deployments.
* Reviewed application logs, identified root cause and provided resolution.
* Architect application infrastructure in public and private cloud environment.
* Migrated infrastructure from on-premise to AWS cloud.
* Developed custom scripts to enhance deployment process.
* Release deployment and patch deployment process to all environments include stage and production.
* Infrastructure migration from OnDemand to AWS cloud.
* Installed and configured Nagios for server and application health checks and send nonfictions.
* Developed Nagios plugins.
* Worked with developers for product new features, enhancements and bug fixes.
* Debug production issues, outages and provide resolution.

**Environment:** AWS, Jenkins, GIT, ANT, MAVEN, JIRA, Python, BASH & KORN Shell, Weblogic, Tomcat, Dynatrace, Jira Stash, MySQL, Mango DB, Python, Java, Linux, AWS, GIT, Jenkins, Docker, Tomcat, Nexus, Artifactory, VMware. Amazon Web Services (AWS), Chef, SVN, JIRA, Apache Tomcat, Shell Scripting, Splunk, Ruby Scripting

**Infologitech, Princeton, NJ - Offshore July 2014 to April 2016**

**DevOps Engineer**

* Worked on cloud automation for IaaS cloud (AWS) using Puppet Configuration Management Tool.
* Created CI/CD pipeline on cloud infrastructure AWS using Jenkins, Puppet, and Maven GitHub.
* Worked Configuration Engineer in deployment and build of projects that included Design of CI/CD processes on Jenkins orchestration, with usage of automated tools for build, test/QA, and deployment.
* Worked on branching and merging strategies in GitHub.
* Worked on Ansible for automating the AWS processes like creating instances, VPC, Security gateways, Internet Security Gateway, Auto Scaling Groups and ELB's.
* Create AMI images of critical EC2 instances as backup.
* Generated report and monitored the performance of cloud using Ansible.
* Created Docker images and handling multiple images primarily for middleware installations and domain configuration.
* Developed Bash scripts for automation of build and release process.
* Implemented Docker containers for creating various environments to deploy the applications.
* Used JIRA tool to create, update stories and for tracking project status.
* Worked with Git to store the code repositories, creating branches, merging, tagging, etc.
* Developed shell scripts (Bash), Ruby, Python and PowerShell for automating tasks.
* Designed and developed automation test scripts using Python.
* Experience in managing configuration of web applications and Deploying through AWS cloud server by using the configuration management tool Chef.

**Environment:** Amazon Web Services, Weblogic, Splunk, Ruby, Shell, GitHub, GITlab, Jenkins, Dynatrace AWS EC2, S3, ELB, Auto scaling Servers, Linux, AWS, GIT, Jenkins, Docker, Tomcat, Nexus, Artifactory.

**Bayer Health Care, Whippany, NJ - Offshore Feb 2012 to June 2014**

**DevOps Engineer**

* Create ELB and Auto-scaling for load balancing and scaling the Application servers based on demands using launch configurations, Custom AMI's, Cloud Watch alarms and SNS.
* Create Custom routes, NAT instances, Internet Gateways, Elastic IP's, Security groups for incoming and outgoing traffic, Route53 for Naming services for AWS infrastructure.
* Managed SVN repositories for branching, merging and tagging and developing Shell/Groovy Scripts for automation purpose.
* Experienced in setting up dashboards and alerts in Splunk to monitor system performance and detect anomalies in real-time.
* Creating scripts in DSL Groovy which integrate with Jenkins for Automation to create seed jobs.
* Using AGILE MVN method to develop a build and also ANT as a build tool.
* Created the Release Management plan with the implementation schedule and meanwhile Conducted Sanity Testing to verify for the right build is deployed.
* Installing, configuring and administer Jenkins CI tool on Windows and Linux machines.
* Administer CI/CD tools stack administration and maintenance.
* Setup and Implement Continuous Integration and Continuous Delivery (CI & CD) Process stack using AWS, GITHUB/GIT, and Jenkins.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using GIT source control.
* Analyze and resolve conflicts related to merging of source code for GIT.
* Regular build jobs are initiated using the continuous integration tool with Jenkins.

**Environment:** Java, Linux, AWS, GIT, Jenkins, Docker, Tomcat, Nexus, Artifactory, VMware. Amazon Web Services (AWS), Chef, SVN, JIRA, Apache Tomcat, Shell Scripting, Ruby Scripting

**Dell Computers Chennai, India Aug 2009 to Jan 2012**

**Support Engineer**

* Installation, patching, configuration and administration of Red Hat Linux, Debian, Ubuntu, Oracle Enterprise Linux (OEL) servers.
* Installed and managed YUM server repository for Linux Environment.
* Managed partitioning, mounting and maintaining file systems, system security, change management, documents and performance tuning of Linux servers.
* Managed file permissions, file systems, resizing the file systems as per the requirement and ownership of important files and directories.
* Troubleshoot the disk errors and File System errors.
* Managed systems routine backup, scheduling jobs, enabling and disabling cronjobs, enabling system logging, network logging of servers.
* User administration, creating users, groups, modification, removing, checking user parameters.
* Performed remote system administration using network protocol tools such as SSH, HTTP, TELNET, FTP, SFTP, SMTP, SSL.
* Installed and configured DHCP, DNS, TCP/IP, UDP, FTP, NFS servers and clients, assigning IP addresses to client hosts.
* Experience in configuring and maintaining system securities using IP tables.
* Monitored system performance statistics such as storage, CPU utilization and network bandwidth utilization. Proficient in Nagios log server manager.
* Supporting servers with MySQL and PostgreSQL databases and coordinating with DBA for performance monitoring.

**Environment:** Apache Tomcat, VB, VB Script,PowerShell Scripting, Microsoft SQL Server, AWS Cloud Infrastructure, EC2 instances, S3 Buckets, VPC, subnets, IAM, cloud watch, Jenkins, JIRA, Confluence, Unix, Linux, Window server 2008, 2012 R2, server administration, JavaScript, XML, Oracle WebLogic Server. JAVA, J2EE, Groovy, ASP, ASP.net, Weblogic, IIS 6.0

**Sonata Software: Hyderabad Aug 2007 – July 2009**

**Applications engineer**

* 24/7 on-call production support and troubleshooting issues related to IHS WebSphere
* Provided extensive support in code deploy, change management, and application level troubleshooting for the Dev, Test, Pre-Prod, Production environment
* Installed, configured &amp; upgraded WAS for all Dev, Test, Pre-Prod Production environments.
* Worked closely with development, messaging, network support teams, as the application was integrated with other products.
* Involved in testing of the web URLs and software installed and versions migrated.
* Involved in integrating and testing the third party applications.
* Configured JDBC connections, JMS servers and security settings for WAS.
* Involved extensively in trouble shooting the issues and finding out root cause analysis.
* Worked closely with vendors during trouble tickets and also in coming to a solution.
* Worked with the team for writing and deploying shell scripts to automate various tasks like start and stop scripts, log rotation, working with Jacl files.

**Environment:** JAVA, J2EE, Groovy, ASP, ASP.net, Weblogic, IIS 6.0, Apache Tomcat, VB, VB Script,

PowerShell Scripting, Microsoft SQL Server, AWS Cloud Infrastructure, EC2 instances, S3 Buckets, VPC, subnets, IAM, cloud watch, Jenkins, JIRA, Confluence, Unix, Linux, Window server 2008, 2012 R2, server administration, JavaScript, XML, Oracle WebLogic Server.