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**Vamshi**

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**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 gitlab and Jenkins such as pipeline project, multi-configuration, freestyle, and parameterized triggered builds.
* 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, automation.
* Used Saltstack configuration management tool for faster server provisioning.

**Technical Skills:**

|  |  |
| --- | --- |
| **Operating System:** | Red Hat Linux, CentOS, Ubuntu, Sun Solaris |
| **Scripting Tools:** | Shell, Python, Go, JSON, Yaml, Groovy |
| **CI/CD** | Git Labs, Jenkins, Argo CD |
| **Version Tools:** | Git, Bitbucket, GITlab, Github |
| **Container Orchestration** | Kubernetes, AWS EKS |
| **Provisioning Tools** | Terraform, CloudFormation |
| **Configuration Management:** | Ansible, Salt |
| **Service mesh** | Istio |
| **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. |
| **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

**Professional Experience:**

**Charter Communications, Denver, CO July 2019 to till date**

**Lead DevOps.**

* 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, 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, security groups.
* 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.
* Create Helm charts and templates.
* Implemented external secrets charts for secrets management.
* Manage secrets in enterprise Vault to create Kubernetes secrets.
* Use community charts like reloader for pod restart for any config or secret update.
* Create and manage gilab project using Terraform.
* Gitlab user and permission management using Terraform.
* 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, 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.

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

**Sr. 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).
* 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.
* Automating configuration management using SaltStack for application configs.
* Used the Saltstack for continous code deployment.
* 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**

* Implement AWS solutions using E2C, S3, RDS, EBS, Elastic Load Balancer, Auto-scaling groups.
* Setting up both public and private sub-networks using virtual private cloud (VPC) and creating security groups to associate with the networks to serve the traffic.
* Created the VPC, configured the subnets, attached the gateway and routing tables to the subnets and deployed the EC2 instances in the subnets created.
* Hands on experience in EC2, VPC, Subnets, Security Groups, Cloud Watch AWS. Created and managed deployment pipelines using Jenkins as a continuous deployment to local staging and test environments and to production environments.
* Implemented build automation solutions for products and provide ongoing support and administration for software build and build automation using Jenkins, Shell Scripts.
* Responsible for onboarding Application teams to build and deploy there code using Git Jenkins, Nexus and Ansible.
* Writing playbooks for Ansible and deploying applications using Ansible.
* Provisioning AWS environments using Ansible Playbooks.
* Automated common, repeatable tasks at large scale using Terraform.
* Worked on Terraform for automating VPC, ELB, security groups, S3buckets, to manage infrastructure.
* Hands on experience on Terraform a tool for building, changing, and versioning infrastructure safely and efficiently managing and creating a pipeline for custom application images in the cloud using Jenkins.
* Improving the Performance of Jenkins by implementing the setup of Master-slave architecture.
* Setting up the jobs for Continuous Integration Pipeline, also to execute test cases using Jenkins.
* Container management using Docker by writing Docker files and set up the automated build on Docker HUB.
* Created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files.
* Created and configured new JIRA projects and worked with departments to maintain existing JIRA projects.
* Working within Agile environment, including the use of scrum and Kanban.

**Environment:** AWS, Jenkins, Ansible, Terraform, Docker, Kubernetes, GIT, ANT, MAVEN, JIRA, Python, BASH & KORN Shell, WebSphere, Tomcat, Jira Stash, MySQL, Mango DB, Python

**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, Docker, Splunk, Ruby, Shell, GitHub, GITlab, Jenkins, Dynatrace AWS EC2, S3, ELB, Auto scaling Servers, Glacier,

**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.
* 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 March 2010 – 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.

**Sonata Software: Hyderabad Aug 2007 – Feb 2010**

**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.