**Lead. DevOps Engineer**

**SRIRAM NARESH**

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**SUMMARY:**

* Over 9+ years of experience in the IT industry as an **AWS/DevOps Engineer** and **Cloud Engineer/IAC Engineer**
* Deploy, Maintain, and improve performance over containerized applications in **EKS** to support application.
* As Working as DevOps Engineer I have Configured and managed **AWS** infrastructure as code with **Terraform**.
* Deploying **Kubernetes** application with Helm charts, expertise in creating **Kubernetes** **config** **maps**, **ingress**, and **services**.
* Deploy, maintain and improve performance over containerized application in EKS
* Implemented **CI/CD** pipelines with Groovy scripts in **Jenkins** to deploy infrastructure code as well as application code in **EKS (Kubernetes**).
* As Devops Engineer Configured Devops tools like **Gitlab, Jenkins, Docker, Kubernetes, Terraform, Sonarqube,Jfrog,Helmcharts etc.**
* Strong experience in building, configuring, and deploying **Java** applications in various infrastructural architecture.
* Experience using cloud providers and APIs for **AWS EC2, Auto Scaling, CloudWatch, Elastic Load Balancer, ECS, ECR, IAM, SNS, S3, VPC, RDS, Dynamo DB** and **Route 53.**
* Experience in Version Controlling systems like **GIT, GitHub, SVN,** and **Bitbucket.**
* Installed and configured **Jenkins** for Automating Builds and Deployments through the integration of Git into Jenkins to automate the code checkout, thus providing an **automation** solution.
* Worked with build tools such as **Maven** for the building of deployable artifacts such as jar and war from source code.
* Designed and implemented **Terraform modules** for AWS resources, ensuring repeatability and consistency
* Designed, developed, and maintained **Terraform** **modules** to automate AWS infrastructure provisioning, ensuring modularity and reusability.
* Expertise in Application Deployments & Environment configuration management and provisioning **Ansible**.
* Managed EKS cluster deployments using **Terraform**, including node group scaling, IAM role configurations, and security policies.
* Configured AWS Load Balancer Controller, **ALB**, and **NLB** using **Terraform** for Kubernetes workloads, optimizing traffic routing and security.
* Designed and managed **Terraform modules** for provisioning AWS EFS and EFS mount targets, enabling reuse across multiple EKS clusters and environments.
* Experience in writing **Terraform** scripts for managing AWS infrastructure.
* Experience in using **JFROG** **Artifactory** Repositories to manage Maven builds.
* Experience with container-based deployments using **Docker** created **Dockerfile,** worked with **Docker images**, **Docker Containers**, **Docker Hub,** and **Docker registries.**
* Created Instances in **Apache Web** Server **Application** server in QA and Production environment.
* Release Management Experience writing **Bash** and **shell** scripts to automate the deployments.
* Good hands-on Experience Using **Monitoring** Tools like **Nagios**, **Kubernetes dashboard and** **CloudWatch**
* Experience in working with Tracking Tools **JIRA**.
* Implemented **GitOps** **Bridge** **Model** Deployed EKS addons and other components (**Dynatrace**, **Aqua**, **Splunk**) using a **GitOps** approach, ensuring version-controlled and **automated** infrastructure changes.
* Extensive experience in **24x7** on-call **production** **support** , **trouble** **shooting**, **debugging** and root cause analysis.
* Exposed to all aspects of the software development life cycle (**SDLC**), understood, and worked in **Agile** and **Scrum** Methodologies.
* Implemented a Demo project as per client request with the help of Atlassian tools like **JIRA**, , and **Confluence.**
* Worked well and Understood **Offshore**\**Onsite** Model.
* Excellent Communication Skills with, **Proactive thinking** and can exhibit good **leadership skills** when needed.
* Setting **Gitlab** repository and **Runner** for build automation
* Creating of **gitlab-ci.yml** file for kicking build process in stages that run in docker container.
* **EKS Cluster Upgrades**: Led the **upgrade** of EKS clusters to the **latest** **versions**, ensuring all **addons** and applications remained **functional** **post-upgrade** through comprehensive **testing** and **verification**.
* Installed and configured the **EBS** and **EFS CSI drivers** on EKS clusters, enabling **dynamic provisioning** and **management** of **persistent storage volumes**.
* Utilized **PV** and **PVC** for managing **persistent** data, ensuring data **durability** and **accessibility** across **deployments**.
* **Dynamic Storage Provisioning**: Configured storage classes to enable **dynamic** **provisioning** of **persistent volumes**, optimizing **storage** **management** and resource allocation.
* **ArgoCD Manifests** and **Applications**: Created and managed ArgoCD **manifest YAML** files and applications, facilitating **seamless deployments** and **rollbacks** within the clusters.
* **Proficient** in managing **infrastructure** as code (IaC) using **Terraform** to ensure scalability, reliability, and repeatability of **AWS** deployments.
* Diagnosed and resolved Kubernetes cluster and **application** **issues** in EKS clusters, ensuring minimal **downtime** and optimal **performance**.
* **Managed** and **deployed** Kubernetes **pods**, **deployments, Networking, loadbalancing**, ensuring efficient resource utilization and application availability across the EKS clusters.
* **Installed** and configured **Cluster** **Autoscaler** in EKS clusters, enabling dynamic **scaling** based on workload demands and optimizing resource utilization.
* **Diagnosed** and **resolved** Kubernetes cluster and application **issues** in EKS clusters, ensuring minimal **downtime** and optimal **performance**.
* **Installed** and **configured** the **Ingress**-**Nginx** **controller** for **load** **balancing** across multiple EKS clusters, ensuring **high** **availability** and **fault** tolerance.
* Designed and implemented **CI/CD pipelines** using **GitHub Actions** from **scratch** for both **frontend** and **backend** environments, streamlining the build, test, and deployment processes for internal projects.
* Deployed and managed internal project infrastructure on **Microsoft Azure**, leveraging services such as **Azure Virtual Machines**, **Virtual Networks (VNet**), **Subnets**, and **Azure Kubernetes Service** (AKS) to ensure scalable and secure deployments
* Implemented **Hashi Corp** **Vault** for **secrets management**, enabling secure **storage** and **dynamic** generation of credentials across AWS environments.
* Built CI/CD integrations using **Vault**, securely injecting secrets into **GitHub Actions pipelines**.
* **Gained deep theoretical** and hands-on lab **knowledge** of **Terraform Enterprise**, including **workspace management, state handling**, **policy enforcement**, and **team collaboration**.

TECHNICALL SKILLS:

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Operation Systems** | Centos 7 Linux (Red Hat 5.x, 6.x), |
| **Version Control Tools** | **GIT**, **GITHUB**, **BitBucket** |
| **Build/Release/DevOps** | **Jenkins**, **Ansible**, **SonarQube**, **JFrog**, **Nagios**, **Docker**, **Kubernetes**, **Terrafrom, ArgoCD,helm-charts, Github Actions** |
| **AWS Services** | **EC2, Auto-Scaling in launching EC2 instances, Elastic Load Balancer, S3, Cloud Front, RDS, VPC, Route 53, Cloud Watch, Cloud Formation, IAM, SNS, EKS**  **And Azure Cloud Services like VM,Virtual Networks (VNet), Subnets, and Azure Kubernetes Service** |
| **Languages/Scripting** | **Yaml, Shell, Bash, Groovy and Terrafrom Scripts, python** |
| **Application/ Web Servers** | **Application Server and Apache Tomcat, Angular Application** |
| **Issue Tracking Management** | **JIRA** |
| **CI/CD Tools** | **Jenkins, GitlabCI, bitbucket pipeline, ArgoCD, helm-charts** |
| **Database** | **MongoDB, Postgres** |
| **Containerization and Orchestration** | **Docker, Kubernetes (EKS)** |

**Certifications**:

* **AWS Certified Devops Engineer Professional**.
* **Hashi Corp: Terraform Certified**

Work Experience:

1. **Persistent System Limited (Jan 2023- Present)**

**Role: IAC Engineer – Kubernetes/Terraform**

**Responsibilities:**

- **Deploy**, **configure**, and maintain **Kubernetes** **clusters** on cloud platforms like **AWS**.

- **Monitor** and **optimize** cluster performance, ensuring high availability and scalability.

- Implement **security** best practices, including **RBAC**, Pod **Security** Policies, and **network** **policies**.

- Troubleshoot and resolve issues related to container **orchestration**, **networking**, and **storage**.

- **Developed** and managed **Terraform** **modules** for deploying AWS resources, streamlining **infrastructure** provisioning and ensuring reusable and consistent configurations.

- **Automate provisioning**, deployment, and scaling of **Kubernetes** resources using Infrastructure as Code tools like **terraform**, **Argocd**

**-** Implemented **GitOps** **Bridge** **Model**: Deployed EKS addons and other components (**Dynatrace**, **Aqua**, **Splunk**) using a **GitOps** approach, ensuring version-controlled and **automated** infrastructure changes.

- **ArgoCD** for Application **Deployment**: Leveraged ArgoCD for continuous deployment of applications in Kubernetes clusters, streamlining and **automating** the **deployment** process.

- Troubleshot **Terraform state** drift issues and optimized Terraform plan and apply processes for faster execution.

•Implemented **Terraform import strategie**s for existing AWS resources, reducing manual migration efforts.

- **ArgoCD Manifests** and **Applications**: Created and managed ArgoCD **manifest YAML** files and applications, facilitating **seamless deployments** and **rollbacks** within the clusters.

- **Ingress-Nginx Controller Configuration**: Configured and managed the **Ingress-Nginx** controller and **ingress files**, enabling secure and efficient **routing** of traffic to **services** within the cluster.

- **EKS Cluster Upgrades**: Led the **upgrade** of EKS clusters to the **latest** **versions**, ensuring all **addons** and applications remained **functional** **post-upgrade** through comprehensive **testing** and **verification**.

- **TLS Encryption Configuration**: Configured **end-to-end TLS encryption** for the EKS **cluster**, ensuring secure communication for all **services** and compliance with **security** **standards**.

- **Dynatrace Installation and Monitoring**: Installed and configured **Dynatrace** on EKS clusters, ensuring full visibility of **metrics** and **performance** monitoring across the entire infrastructure.

- **EBS and EFS Drivers**: Installed and configured the **EBS** and **EFS CSI drivers** on EKS clusters, enabling **dynamic provisioning** and **management** of **persistent storage volumes**.

- **Persistent Volumes (PV)** and **Persistent Volume Claims (PVC)**: Utilized **PV** and **PVC** for managing **persistent** data, ensuring data **durability** and **accessibility** across **deployments**.

- **Dynamic Storage Provisioning**: Configured storage classes to enable **dynamic** **provisioning** of **persistent volumes**, optimizing **storage** **management** and resource allocation.

- **Enterprise Tools and Support**: Collaborated with **enterprise** tool **vendors** and worked closely with **support teams** to **troubleshoot** and **resolve** issues, ensuring minimal **downtime** and maintaining system **reliability**.

- Provide **guidance** and **support** to team members on Kubernetes-related topics.

- Conduct periodic **security** **audits** and **vulnerability** **assessments** for Kubernetes clusters.

- Design and implement **disaster** **recovery** and business continuity strategies for Kubernetes infrastructure.

- **Proficient** in managing **infrastructure** as code **(IaC)** using **Terraform** to ensure scalability, reliability, and repeatability of **AWS** deployments.

- Created and configured **cluster** **roles** and **bindings**, ensuring proper access control and adherence to **security** **policies** within the **Kubernetes** environment.

- Installed and configured **Cluster** **Autoscaler** in EKS clusters, enabling dynamic **scaling** based on workload demands and optimizing resource utilization.

- **Implemented** and **managed** **Dynatrace** **monitoring** tools on **EKS** clusters, providing comprehensive visibility into cluster **performance** and **application** metrics.

 - Configured **Dynatrace** for **real**-time **monitoring** and **alerting**, ensuring prompt detection and resolution of **performance** issues.

- Installed and managed **Splunk** for **centralized** **logging** of application logs in EKS clusters, facilitating efficient log analysis and troubleshooting.

- **Installed** and **configured** the **Ingress-Nginx** **controller** for load **balancing** across multiple EKS **clusters**, ensuring high **availability** and fault **tolerance**.

- Implemented **HashiCorp** **Vault** for secrets management, enabling secure storage and dynamic generation of credentials across AWS environments.

-Built CI/CD integrations using **Vault**, securely injecting secrets into **GitHub Actions** pipelines.

-Managing and updating **large-scale Terraform codebases** for **provisioning** and **maintaining** AWS infrastructure across multiple **environments** (dev, staging, prod).

-Implemented **remote state management** using **S3** to support team collaboration and prevent state conflicts.

1. **Solugenix India pvt limited (May 2022 to Jan 30th - 2023)**

**Role: DevOps Engineer**

**Responsibilities:**

* **Exper**ience in **containerizing** and **migrating** applications from **Docker swarm** to **Kubernetes**
* Experience in building and deploying applications and troubleshooting the build and deploy failure.
* Proficient with container systems like **Docker** and **container** Orchestration like **EKS**, **Kubernetes.**
* **Deploy**, **Maintain** and **improve** **performance** over **containerized** **application** in **EKS**
* **E**xperience with managing the **Kubernetes** cluster by using **Rancher**.
* Experience with container-base deployment using Docker, working with docker images, Docker Hub and **Kubernetes**.
* Deploying **Kubernetes** application with **Helm** **charts**, expertise in creating **Kubernetes** **config** **maps**, **ingress**, and **services**.
* Building/Maintaining Docker Container clusters managed by Kubernetes Linux, Bash, GIT, Docker and Kubernetes.
* Deployed various Java Spring boot-based, NodeJS applications on the Kubernetes cluster hosted on the Kubernetes cluster.
* Used Kubernetes to orchestrate the **deployment**, **scaling**, and **management** of **docker containers**.
* Utilized **Kubernetes** for the runtime environment of the **CI**/**CD** system to build, test deploy.
* Used **Jenkins** pipelines to drive all **microservices** builds out to the **docker** and deployed to **Kubernetes**, created **pods**, and **managed** using **Kubernetes**
* Managing day-to-day activity of the **cloud** **environment**, **supporting** the development of test environment on **docker** containers, and configuring the docker containers using **Kubernetes**.
* Remote login to virtual Machines to **troubleshoot**, monitor and deploy applications
* Created a fully automated CICD **environment** for multiple projects using GitHub, **Jenkins**, building the **artifacts**, **SonarQube** , docker and Kubernetes
* Updating the config file using **Jenkins** **vaults** to use as secrets for Kubernetes.
* Used **Datadog**, **Splunk** for monitoring **System**/**Application** logs to detect Prod/Non-Prod Error
* Responsible for product deployments into **QA**, **STAGE** and **PROD** environments.
* **Identify**, **troubleshoot** and resolve issues related to **build** and **deploy** process.
* Resolved 30+ user complaints everyday related to Jenkins, Git and Cluster issues.
* Extensive experience in **24x7** on-call **production** **support**, **trouble** **shooting**, **debugging** and root cause analysis.
* Experience in using bug **ticketing** tool like **JIRA, Ex**perience in log analysis using **DATADOG**
* **E**xperience in creating the workflows and dashboard in **JIRA** and also have experience in documenting the data in **Confluence**.

1. **Maveric Systems limited (September 2021- May 2022)**

**Role: DevOps consultant /AWS Engineer**

**Responsibilities:**

* Launched **AWS EC2 instances** using **Terraform scripts** and **AMI**s.
* Provisioned AWS services like Ec2, Lambda, EKS, SNS, S3, VPC,ECR,Load balancers etc.as part of my Job.
* Expertise in debugging the **VPC** network issues from end-end like checking the **security groups**, network **ACLs**, **Internet Gateways**, **NAT** instances & **Route** **tables** in AWS
* Planning and configuring the angular application and backend node js .
* Setup the Aws infra from scratch like ec2, s3, **CloudFront, codedeploy**.
* Launching the ec2 instance and creating the s3 to store config file and configuring the codedeploy application and deployment group for **CICD.**
* Implemented DNS service (**Route** **53)**,Worked on Multiple **AWS** instances, set the security groups, Elastic Load Balancer, Auto scaling to design and achieve cost-effective, fault-tolerant and highly available infrastructure
* Building the **CICD pipeline** on **Bitbucket pipeline** by writing the **bitbucket-pipeline.yml** file in bitbucket repository.
* Configure **MongoDB** cluster from scratch and creating the users.
* Configure CICD pipeline setup **IOS mobile application** by using **bitrise platform**.
* **JIRA** is used as an issue and bug tracking tool
* Coordinated with developers, Business Analyst and Managers to make sure that code is deployed in respective environments
* Setting up Monitoring service **on Aws cloud watch** to identify the issue and resolve.
* Experience with container-based deployments using Docker, working with Docker images, aws ECR and Kubernetes.
* Created **Jenkins** CICD pipelines for continuous build & deployment and integrated **Junit** and **SonarQube** plugins in Jenkins for automated testing and for Code quality check.
* Used **Kubernetes**to orchestrate the deployment, scaling and management of Docker Containers.
* Good Knowledge in Shell, Python, Perl & Expect scripting
* Experience in building and deploying angular applications and troubleshooting the build and deploy failures.
* Built and managed a large deployment of RedHat Linux instances systems with **Ansible** Automation and
* Worked on Amazon AWS EC2 cloud services for installing, configuring and troubleshooting on various Amazon images like **Amazon Linux AMI, Redhat 4.x, 5. x.6.x,7.x, Ubuntu 12.x, 13.x, 14.x, 15.x.** Created and managed multiple Instances of Apache Tomcat and deployed several test applications in those instances in QA environment.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on AWS EKS
* Worked on infrastructure with Docker containerization and maintained Docker Images and containers.
* Implemented **AWS** solutions using EC2, S3, EBS, Elastic Load Balancer, Auto scaling groups.
* Responsible for product deployments into QA, STAGE and PROD environments.
* Identify, troubleshoot and resolve issues related to **build** and deploy process.
* Experience in **setup of Gitlab repository on Aws** , By installing **git lab packages** on aws instances.
* Experience in **creating the user** on **Gitlab** and providing **the access to the users**.
* Setting **Gitlab repository** and **Runner** for build automation
* Creating of **gitlab-ci.yml** file for kicking build process in stages that run in **docker container**.
* Experience in **Installation**, **Setup**, **Configuration**, **Deployment**, **Monitoring** and Support of **Gitlab**

1. **SmartDrive systems India ltd, INDIA.**

**Role: DevOps/AWS Engineer**

**Responsibilities:**

* Implemented various **AWS** solutions such as **EC2**, **S3, VPC, Elastic Load Balancer, EBS, Auto Scaling groups, RDS** and **DynamoDB**
* Launched **AWS EC2 instances** using **Terraform scripts** and **AMI**s.
* Provisioned AWS services like Ec2, Lambda, EKS, SNS, S3,VPC,ECR,Load balancers etc.as part of my Job.
* Handling Dev, Test, Staging, Production Servers. Maintaining local and Aws infrastructure
* Used Identity & Access Management (**IAM**) to create new users, roles, groups, and policies.
* Expertise in debugging the **VPC** network issues from end-end like checking the **security groups**, network **ACLs**, **Internet Gateways**, **NAT** instances & **Route** **tables** in AWS
* Implemented DNS service (**Route** **53)**,Worked on Multiple **AWS** instances, set the security groups, Elastic Load Balancer, Auto scaling to design and achieve cost-effective, fault-tolerant and highly available infrastructure
* Configured the infrastructure using **Docker, Kubernetes, Terraform &** **CloudFormation**
* Production experience in large environments using configuration management tool **Ansible** supporting 300+ servers in **on**-**premises** and involved in developing **playbooks**
* Created a **master** and **slave** configuration on **Docker Containers** to achieve load balancing for **Jenkins**
* Responsible for the **Plugin Management**, **User Management,** and **Automating Build** Management process with **CI** **Tool** **Jenkins.**
* Integrated **GIT** into Jenkins to automate the code checkout process
* Configured the Docker containers and created **Docker files** for different environments
* Virtualized the servers using **Docker** for the test and dev environments needs.
* Integrated Jenkins with Kubernetes and Deployed application as a Docker container in Kubernetes Cluster.
* Configured **Kubernetes** cluster and deployed application as **Docker** containers and maintained their pods and services.
* Developed build and deployment scripts using **MAVEN** as build tools in **Jenkins** Configured Jenkins **Build/Deploy Pipeline** to store thebuild artifacts in the **Artifactory** repository
* Implemented a production-ready, load-balanced, highly available and fault-tolerant **Docker** & Aws **infrastructure**
* Setting up Monitoring service **Nagios** to proactively identify the performance issues
* **JIRA** is used as an issue and bug tracking tool
* **Coordinated** with developers, Business Analyst and Managers to make sure that code is deployed in respective environments
* Perform daily system monitoring, verifying the integrity and availability of all **hardware**, **server** resources, systems, and key processes, reviewing system and application logs, and verifying completion of scheduled jobs

Educational Background:

• B. Tech **Computer** **Science** **Engineering** from **Krishna** **Murthy** **Institute** **Technology** and **Engineering** (JNTUH)

• MPC (2009-2011) from **S** **R** Junior College (Board Of Intermediate AP).

• SSC (2009) from **Vignan** **High** **School** Ghatkesar (Board of Secondary Education)

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Declaration: I hereby declare that the above written particulars are true to the best of my knowledge and belief.

(SRIRAM NARESH)