# AWS/DevOps Engineer

**Yerubandi Teja**

**Cell: +91-**6300122570⬩**E-mail:** **yerubandi.teja@gmail.com** ⬩ **Loc:** Vadodara

Be the key person in creative environment to utilize and refine my personal skills and abilities in the Modern Technology that offers Professional growth while being resourceful, innovative and challengeable.

**Summary:**

* IT Professional with 5+ years of Experience in Software Development Skilled at Operating in a wide range of Platforms like DevOps And AWS. Having experience in DevOps/AWS Software Configuration Management which includes Build Automation, Continues Integration, Continues Deployment, and Continues monitoring using Automation Tools.

# Professional Summary:

* Setup /Managing Infrastructure on Amazon Cloud Using (**EC2, ECR, EFS, VPC, ELB, IAM, S3, AMI, Cl, Security Groups, Lambda, Cloud Watch, Dynamo dB, RDS, CloudFront, Route53, Elastic Cache, kinesis streams, Athena, Emr, ElasticSearch, QuickSight, AWS Glue, SectretsManger. Certificate manager, KMS, MediaConvert …**).
* Expertise in DevOps, Cloud Infrastructure Automation it includes **Kubernetes, Jenkins, Helm, Terraform ,Packer, Ansible**
* Creating and Managing the **kubernetes** cluster using terraform and kops templates
* Creating and Managing most of the AWS Resource Using **Terraform** either by using Modules or Resources
* Experience on creating custom **Docker** Images for Jenkins, backup & Restoration Jobs, and also for application deployments.
* Experience in setting up Monitoring and Alerting using **Prometheus,** **Elastalert**, **Statuscake, Pagerduty** , **Slack**
* Using **Packer** and **Ansible for building the** AMI with default configurations and for Provisioning using Ansible roles and Scrips
* Managing most of our **kubernetes** deployments using **helm-charts**
* Experiencing in creating custom charts and managing stable charts using **helm** and **helmfile**s
* Managing our custom **chart** **repository i**n s3 to deploy all over applications using **charts**
* For **Encrypting** and **Decrypting sensitive information in code**  using AWS **Secret manager** With **SOPS**
* Managing logging usingAWS **Elasticsearch, kibana** and **Fuentd**
* For authentication accessing of application for the user using **Zero Tier** **Auth0** a third party tool
* For Access on bastion servers using **Ansible** **roles** for provisioning
* Using **Amazon Inspector agent** to full assess **Ec2** instance **security**
* Automation the **Jenkins Deployment**  using **helm**, **JCasC** and **Job-DSL** Deployment.
* Configuring the Jobs using jobdsl and shared library and some of the jobs are created using **Jenkinsfile** under organization folder
* configured **Velero** for **backup** and **Restore** of **Kubernetes cluster Resources** and **Persistent Volumes**

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# Educational Details:

* B. tech - **Swarandhra Institute of Engineering and Technology, 2013**

**Professional Experience:**

* Currently working with Rishabhsoft , Vadodara as a Devops Engineer from Oct-2018 to Till Date
* Working as a Devops Engineer for Wipro, Bangalore form July-2015 to Sep-2018

**Technical Skills:**

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| --- | --- |
| Version Control Tools | Git, GitHub, |
| Infrastructure As a Code | Packer, Terraform |
| Continuous Integration, Delivery and Deployment | Helm, Jenkins |
| Containerization | Docker |
| Orchestration | Kubernetes (kops) |
| Configuration Management | Ansible, Chef |
| Languages | Shell Scripting, Groovy, Gotmpl |
| Cloud Technologies | AWS, Ali-cloud |
| Monitoring and alerting | Prometheus[Prometheus-operator], Thanos, Grana, Elastalert |
| Logging | Elastic Serach, Fluentd, kibana |
| Databases | MYSQL. PSQL, Cassandra, Aerospike, Influxdb |

**PROJECTS:**

**Devops Engineer at Rishabhsoftware ( Oct 2018 to Till Date)**

**Client: Viooh[JCDUK]**

**Role:** **Site Reliability Engineer**

**Roles and Responsibilities:**

1. Creating and managing the **kops** clusters using **Terraform** **and kops** template and automation the updates using **makefile**
2. Building AWS Infrastructure which includes bastion servers, RDS, Route53 , Kinesis , DynamoDB , IAM User , Groups , Roles ,KMS, etc using Terraform templates.
3. Providing permission for accessing AWS resources on the single or cross-account as per the requirement to the K8s Cluster , IAM users , Groups ,Instance Profiles.
4. Create docker images for **backups** Jenkins master and slave[agent] to installed necessary plugins ,installed tools to support scripting .
5. Using **kubernetes Ingress** to manage the services access based on the rules define on the ingress controller
6. Configured **external-dns** in kubernetes cluster
7. Configured multiple **Exporters** to get the metrics and sending the alerts of targets down
8. Configure **Prometheus Push-gateway** for  ephemeral and batch jobs to expose their metric to prometheus
9. Configured **Elasticsearch-curator**
10. Configured **Fluentd** and created index based on different filetrs
11. Creating **Instance groups** using kops template and scheduled the pods on the dedicated nodes by using the node selector and taints
12. Configured **grafana, Prometheus** with highavalibility using **thanos and Prometheus-operator**
13. Setup resource allocation limits for the deployments
14. Used affinity and anti-affinity for the deployments
15. Confugred the statefull sets and deamonsets
16. Configured the **aerospike** cluster as statefull set deployment
17. Manged the **Cassandra** cluster by setting up the backups and reaper tools
18. Created backups scripts for **postgres db, mysql db ,aerospike , influxdb**
19. Configured **redash** application
20. Configured **Sonarqube** as a pod with pv
21. Configure the **alerts** for each and every Deployment and **points the alerts** to respective team **slack channels**
22. Handling out of hours monitoring With integration of **Pagery duty** and **status cake to** notify directly to mobile on production applications
23. Configured influxdb as a deployment in cluster
24. Deployment of REST API server and application server on the Kubernetes cluster using **Helm Charts**
25. Creation of ConfigMap for reloading new configuration for the application servers.
26. Created and managed CI/CD pipeline for java web applications using Jenkinsfile.
27. Monitored Grafana, Kibana dashboards to check the health of various nodes at various time intervals.
28. Maintaining and updating repositories for Jenkins files , Helm Charts , Terraform Templates , Ansible scripts , Kops Yaml file in the Github.
29. Configure alerts for major aws services changes done through console using aws **lamda and boto3**
30. Restoration of Database(MySQl,Cassandra) from the latest dump for the testing purpose.
31. Planning and Implementing, Disaster Recovery and Fault for AWS services.
32. Setting up AWS CloudWatch and Custom Metrics for AWS services
33. Troubleshooting issues on the applications which are deployed on K8s.
34. Created S3 buckets and managed policies using IAM roles for S3 buckets and used S3 bucket and Glacier for storing historical data.
35. Setting up AWS RDS (AZ-Failover and Read replicas)
36. Worked 24/7 on-call to resolve any kind of issues.
37. Implementing AWS CloudFront for the newly built websites.
38. Implementing AWS ROUTE53 and AWS IAM security best practices.
39. Managing amazon web services (AWS) infrastructure with automation and configuration management tool such as Ansible.
40. Managed Billing across several AWS accounts by tagging the resource and reduced costs by monitoring effectively utilizing the resources

**Aws&Devops Engineer at Wipro (July-2015 to Sep-2018)**

**Client:** Home Shopping Network (HSN).

**Role:** Devops Engineer.

**Description:** HomeShoppingNetwork (HSN) is an American broadcast, basic cable and satellite television network that is owned by HSN, Inc. (NASDAQ: HSNI), which also owns catalog company Cornerstone Brands. Based in St. Petersburg, Florida, United States, the home shopping channel has former and current sister channels in several other countries. HSN also has an online outlet at HSN.com.

**Roles and Responsibilities:**

* Hands on experience in Amazon Web Services (AWS) provisioning and good knowledge of AWS services like EC2, Elastic Load-balancers, S3, Elastic Beanstalk, Cloud Front, Elastic Filesystem, RDS, Dynamo DB, DMS, VPC,Route53, CloudWatch, Cloud Trail, CloudFormation, IAM, Elastic Search
* Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed reaching one or more AWS EC2 instances.
* Working on Multiple AWS instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost effective, fault tolerant and highly available systems.
* Configuring and Networking of Virtual Private Cloud (VPC).
* Develop CloudFormation scripts to automate EC2 instances.
* Created CloudFormation templates and deployed AWS resources using it.
* Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Implemented AWS EC2, IAM, S3, EBS, Elastic Load balancer (ELB), Auto scaling groups’ services.
* Created alarms and notifications for EC2 instances using Cloud Watch.
* Installed and configured Nagios monitor tool performance on all nodes
* Creating CloudWatch alerts for instances and using them in Auto-scaling launch configurations.
* Creating an AWS RDS MySQL DB cluster and connected to the database through an Amazon RDS MySQL DB Instance using the Amazon RDS Console. Create and Manipulate shell scripts on Production server for backup on AWS.
* Hands-on in writing the Docker files for building images.
* Containerizing applications with Docker
* Responsible for managing the Docker private registry.
* Participate in building the DevOps Platform with DevOps tools and high end scripting languages like Chef.
* Developing build and deployment pipelines using Jenkins, Maven, ANT for Java applications
* Strong working knowledge on GIT, SVN.
* Written manifests/Recipes and Ruby scripts to customize the Chef as per our environment.
* Configuration management software like Chef. Performed infra automation tasks using Chef
* Bootstrapping instances using Chef and integrating with auto scaling.
* Manage the configurations of multiple servers using Chef.
* Written multiple recipes and also customized facts for efficient management of the Chef clients.
* Experience in build management and continuous integration tools. (Jenkins)
* Driving industry best practice implementation around CI/CD and infrastructure management.
* Performed infra automation tasks using Configuration management software like Ansible.
* Manage the configurations of multiple servers using Ansible.
* Integrated the Ansible playbooks with Jenkins.
* Having good exposure in Jenkins for CI (Continuous Integration).
* Administered version control system that included branching and merging
* Responsible for creating and developing the build process environment
* Maintained and upgraded Jira ticketing tool.

**Place**: Vadodara **(Y.Teja)**