**Ashok kumar Reddy**

**Devops Engineer**

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Having 5.9 years of experience in IT Infrastructure with 4+ years of experience with DevOps and AWS Cloud Proficient in Git, Jenkins, Ansible, Docker, Kubernetes and Terraform.

**Professional Summary:**

* Experienced in designing, deploying and maintaining various multitude applications for data migration utilizing almost all AWS services stack including **Elastic Cloud Compute EC2, RDS, EFS, Elastic Bean Stalk, Subnets, Security Groups, NACLS, Cloud Front, Red Shift, RDS, Key Management Service, Elastic Container Service (ECS), Cloud Formation scripting, Elastic Cache, SNS,** Focusing on High Availability**, Fault-Tolerance**.
* Develop automation and processes to enable teams to deploy, manage, configure, scale, monitor applications in Data Centers and in **AWS Cloud**.
* Provisioned the highly available EC2 Instances using Terraform and cloud formation and wrote new plugins to support new functionality in Terraform.
* Managed AWS infrastructure as code using Terraform.
* Used Terraform scripts to Automate Instances for Manual Instances that were launched before.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using Terraform.
* Created Docker file for each micro service's and changed some of the tomcat configuration file which are required to deploy Java based application to the Docker container.
* Involved in using Terraform migrate legacy and monolithic systems to Amazon Web Services.
* Setting up the build and deployment automation for Terraform scripts using Jenkins.
* Provisioned the highly available EC2 Instances using Terraform and Ansible Playbooks.
* Extensively worked on creating Ansible Playbooks for the application deployment and configuration changes.
* Worked on several Docker components like Docker Engine, Hub, Machine, Compose and Docker Registry.
* Good Knowledge of **IaaS/PaaS/SaaS** experience in AWS Cloud with databases like DynamoDB, S3 Buckets, MySQL and Elastic Cache.
* Hands on experience in S3 buckets and managed policies for S3 buckets and utilized S3 Buckets and **Glacier** for storage, backup and archived in AWS and in setting up and maintenance of Auto-Scaling AWS stacks.
* Utilized **AWS Beanstalk** for conveying and scaling web applications and administrations created with Java, PHP, Node.js, Python, Ruby and Docker on commonplace servers like Apache.
* Created functions and assigned roles in **AWS Lambda** to run python scripts, and AWS Lambda using java to perform event driven processing.
* Worked on Kubernetes system to automate deployment, scaling and management of mobile and web Containerized applications
* Experience in implementation of several Docker components like Docker Engine, Hub, Machine, creating Docker images, Compose, Docker Registry and handling multiple images primarily for middle are installations and domain configurations.
* Used Docker and Kubernetes to manage micro services for development of continuous integration and continuous delivery
* Used Kubernetes to create Pods, Config Maps and deployments into the cluster.
* Hands on experience Kubernetes to automate the deployment, scaling, and operations of application containers across clusters of hosts .
* Used Kubernetes to provide a platform for automating deployment, scaling and operational containers across clusters of hosts and managed containerized applications using its nodes, config maps, selectors, and services.
* Experience in developing CI/CD system with Jenkins on Kubernetes container environment, utilizing Kubernetes and Docker for the runtime environment for the CI/CD system to build, test and deploy.
* Worked on **Jenkins** for continuous integration and for End to End automation for all build and deployments.
* Experience in working with cluster management and **orchestration** features embedded in Docker Engine which is built using Swarm Kit and worked on creation of custom **Docker container** images, tagging, pushing the images and Dockers consoles for managing the application of life cycle. An.
* Extensively used Docker/Kubernetes for **containerization,** virtualization, Ship, Run and Deploy the application securely to fasten Build/Release Engineering. Involved in Provisioning AWS Infrastructure using Ansible scripts from Jenkins.
* Building/Maintaining Docker container clusters managed by **Kubernetes** Linux, Bash, GIT, Docker.
* Experience in working with container clusters like **Docker Marathon** Infrastructure.

**Educational Qualification:**

* B Tech from JNTU Anantapur.

**Technical Skills:**

**Version Control system : GIT, GitHub, SVN**

**Build and CI/CD tools : Maven, Jenkins**

**Configuration Management : Ansible**

**Cloud Platform : Amazon Web Services**

**Virtualisation : Docker, Kubernetes**

**Scripting languages : Python**

**Application server : Apache tomcat server**

**Operating system : Windows7,8, RedHat , Linux, Ubuntu**

**Professional Experience:**

**Project #: 3**

**eMids Technologies Pvt Ltd, Bangalore**

**Designation - DevOps Engineer**

**Duration- August 2019 to Till Date**

**Responsibilities:**

* Implemented AWS solutions like EC2, S3, IAM, EBS, Elastic Load Balancer (ELB), Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
* Optimized volumes and EC2 instances and created multi Availability Zone VPC instances. Maintained Route 53, VPC, RDB, SES and SNS services in AWS cloud.
* Management (IAM) policies for delegated administration within AWS.
* Proficient in writing AWS Cloud Formation templates to create custom sized VPC, subnets, NAT, EC2 instances, ELB’s and Security groups.
* Managed AWS EC2 instances utilizing Auto Scaling, Elastic Load Balancing and Glacier for our QA and UAT environments as well as infrastructure servers for GIT and Ansible.
* Used EC2 as virtual servers to host Git, Jenkins and configuration management tool like Ansible. Converted slow and manual procedures to dynamic API generated procedures.
* Used IAM to create new accounts, roles and groups and polices and developed critical modules like generating Amazon resource numbers and integration points with S3 and Lambda.
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple name spaced versions.
* Worked on Docker/Kubernetes Containerization of cloud based applications
* Worked on Docked-Compose and Docker-Machine to create Docker containers for Testing applications in the QA environment.
* Used Kubernetes for automated deployments, scaling and management of containerized applications across clusters of hosts.
* Created Docker images using a Docker file, worked on Docker container snapshots, removing images and managing Docker volumes.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using Ansible playbooks and has Integrated Ansible with Jenkins.
* Created and maintained continuous integration (CI) using tools Jenkins/Bamboo over different environments to facilitate an agile development process which is automated, enabling teams to safely deploy code repeatedly.
* Administered and Engineered Jenkins for managing weekly Build, Test and Deploy chain, SVN/GIT with Dev/Test/Prod Branching Model for weekly releases.
* Worked on branching, labeling, and merging strategies for all applications in Git.
* Coordinated with different teams across the globe to deploy different builds to different environments on parallel development for multiple projects.
* Supported development, testing and production support teams (24\*7) from configuration, deployments environments.

**Environment**: AWS (EC2, S3, Lambda, Glacier, VPC, EBS, RDS, ELB) Jenkins, Maven, Jira, Linux, Kubernetes, Docker, Ansible and Python.

**Project #: 2**

**eMids Technologies Pvt Ltd, Bangalore**

**Designation-AWS DevOps Engineer**

**Duration-November 2017 to July 2019**

**Roles and Responsibilities:**

* Installed and administered various tools like Jenkins, Gitlab, Docker, Ansible, Artifactory and executed maintenance tasks such as creating users and groups.
* Helped the project in creating the company's DevOps strategy in a mix environment of Linux servers along with creating and implementing a cloud strategy based on Amazon Web Services.
* Documented the entire installation process for various tools and provided on-call support.
* Implemented a CI/CD pipeline involving Git, Jenkins, Ansible, and Docker to complete the automation from commit to Deployment.
* Responsible for design and maintenance of the GIT Repositories and performed all necessary day-to-day GIT support for different projects.
* Hands on with Ansible to deploy automated tasks to many servers at once.
* Created and Implemented branching & merging strategy with multiple branches.
* Involved in periodic archiving and storage of the source code for disaster recovery.
* Integrated GIT into Jenkins to automate the code check-out process.
* Experience on writing Python scripting for automating tasks in Jenkins.
* Worked on AWS Elastic Beanstalk for fast deploying of various applications
* Co-ordinated with developer team over write/modify Ansible Playbooks for automation using Ansible.
* Creating multiple VPC’s and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
* Configured security group for EC2
* Created S3 backups using versioning enable and moved objects to amazon glacier for archiving purpose.
* Involved in building security model, VPC, Elastic IP for databases on Cloud platform.
* Automated the build and release management process including monitoring changes between releases.
* Hands on experience with JIRA for creating bug tickets, work flows, pulling reports from dashboard, creating and planning sprints.
* Worked with globally distributed agile teams and delivering security software to reduce risk throughout the software life cycle.

**Project #: 1**

**Uinted Health Group**

**Designation-System Engineer/Cloud Engineer**

**Duration-July 2015 to October 2017**

**Responsibilities:**

* Responsible for Red Hat , VMware ESX and Linux, Solaris, server builds, OS installation, and patch management. Install and maintain software products as needed.
* Troubleshooting issues related to hardware, OS, system software, network, SAN, NAS.
* Performance monitoring and Tuning using top, prstat, SAR, vmsat, ps, iostat etc.
* Worked with Storage team to configure NAS .
* Worked on high performance applications in a clustered environment.
* Installed and configured file and application servers running on sun servers.
* Extensively worked on Administering FileNet P8 (Process Task Manager, Application Engine, Content Engine, Process Engine)
* Managed Network troubleshooting applications TCP/IP including Ethernet, IP addressing & Sub netting, routing.
* Performing multiplatform volume management using LVM, SVM, ZFS volume manager, VERITAS and NAS volume manager. Install and configured a LAN wide NAS (Free NAS) used for creating LUNs and attaching to Windows 2008 servers and to Solaris using iSCS
* Configuring Apache on Solarir and Linux for virtual and web hosting. Installing and configuring MySQL in Solaris and Linux environments.
* Installed and administered of Apache WebServer.
* Shaped and administered SMTP and POP3 servers using SendMail, Postfix.
* Expert in Installation of Solaris using Custom Jumpstart and Redhat Enterprise Linux using Kickstart.
* Working as Cloud engineer maintenance and monitoring various day-to-day operations.
* Configure Elastic Load Balancer (ELB) for distribution incoming application traffic across multiple EC2 instances.
* Creating AMIs, Snapshots, Volumes and managing EBS Volumes.
* Creating Elastic IPs attaching and detaching to instances as per client request.
* Configuring Load blancer and Auto Scaling group. Configuration monitoring for AWS in Cloud Watch. Scale in and out using Auto scale, add and remove instances as needed to handle the growing workload.
* Configure scalable storage and archive storage (Glacier) in the cloud.
* Creating folders in S3 Bucket and uploading images and files and maintain the buckets and folder permissions.
* Creating S3 buckets and also managing policies for S3 buckets and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Configure the Content Delivery Network (CDN) CloudFront using S3 Bucket to improve the site performance.
* User Administration and management like add/change/delete maintain user’s level security.
* Configure and maintain the Users and Groups policies and permissions in IAM.