Rajitha Mandala

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Certified Cloud | Systems | Kubernetes | Terraform | Dev Ops | Data Engineer

Certifications

- **AWS SysOps Administrator – Associate**
- **Certified Kubernetes Administrator**
- **Oracle 11g Professional Certified ● MongoDB certified**

Degree

- **MCA computers JNTU Hyderabad 2008**

Professional Summary

- 10+ years of experience in IT, DevOps, DBA having hands-on expertise in handling Linux **(CentOS, RedHat, Ubuntu)** & **Windows Server (2008 & 2012 ,2016)** Server Operating System Administration/Support (web/app clusters).
- Experience as **Build and Release/DevOps** Engineer in automating, building, deploying and releasing code from one environment to another.
- Experience in developing **complex build, test, provision, secure** and **deploy systems** and provide support to a large community of developers and testers.
- Experience in deploying Kubernetes clusters in Standalone VM's and Managed Services EKS, GKE and AKS.
- Experience in design, configuration, maintenance, troubleshooting and deployment of server operating systems, Active Directory/LDAP user and group administration.
- Experience in **Configuration management**, C**hange/Release/Build management**
- Exposed to GCP services compute engine, cloud load balancing, cloud storage, cloud SQL, GCP Dataproc, Big Query, GCS bucket, G - cloud function, cloud dataflow, Pub/sub, cloud shell, GSUTIL, BQ command line utilities, Data Proc, stack driver monitoring and involved in IaaS, execution plans, resource graph, change automation using Terraform.
- Experienced with Cloud/Virtualization services to design Infrastructure as a Service **(IaaS)** and Platform as a Service capabilities **(PaaS)**.
- Experienced in designing **AWS CloudFormation** templates to create custom sized **VPC**, **subnets**, **NAT**, **EC2** instances, **ELB** and **Security groups**.
- Experience in deploying containerized solutions, docker images in Kubernetes cluster.
- Experience maintaining **CI** environments with build automation tools like **Jenkins**, Bamboo and **TFS** and extensively used **Jenkins** to streamline **CI/CD** process, automated Master-Slave configurations using temporary slaves.
- Experience in deploying services including **Jenkins** and **Nexus** on **Docker** using **Terraform** / Ansible.
- Worked on creation of **Puppet manifest files** to install tomcat instances and to manage configuration files for multiple applications.

- Experience in developing, testing and deploying systems in Virtualized Environments.
- Experience in working on source control tools like **Git, Subversion (SVN), CVS**. Knowledge of IBM clear case and perforce.
  - Experiences in Automation with **Shell Scripting \ Python**
- Experiences with evaluating **Docker and Containers**.
- Experience in Internet technologies and **TCP/IP, UDP, VLAN, DNS, HTTP, SSL**, **Subnetting, Routing and Firewall rules, iptables.**
- Experience in software configuration management **(SCM**) in **Agile, Scrum and Waterfall Methodologies.**

Technical Skills

Config Management Tools	Ansible and Terraform
Containerization	Docker, Kubernetes, GKE, EKS and AKS
Application Servers	Apache Tomcat 5.x/7.x
No SQL Databases	Mongo DB , Dynamo (AWS)
Database System	Oracle ,MS SQL Server, MySQL, MongoDB
Web servers	Apache, Tomcat,Web Logic (8/9/10)
Networking/protocol	VPC , Subnetting, VLAN, Routing, iptables, Firewall rules
Scripting	Python, PowerShell and shell scripting
Cloud Environments	AWS, Azure, Google Cloud Platform (GCP),
Monitoring Tools	ELK, Splunk, Kibana, CloudWatch and Stack Driver
Source Code Management	GIT, GitHub, Bitbucket, ADO and AWS Code Commit
Operating system	Red hat Linux 6.x/7.x, Ubuntu, CentOS, Windows, and COS [Container OS]

Professional Experience

Sr DevOps Engineer Client - Walmart

Aug 2021 to Present

Responsibilities:

- Migrated applications from on-prem to cloud on wave model.
- Setup GCP Firewall rules to allow or deny traffic to and from the VM's instances based on configuration and used GCP cloud CDN to deliver content from GCP cache locations, drastically improving latency, and troubleshooting Linux Systems identifying Hardware, software (both OS and Application level), and networking Issues.
- Working on Terraform modules to provision infrastructure on AWS for identified applications for migration.
- Writing AWS Cloud Formation Templates for resource provisioning.
- Implemented load-balanced, auto-scaling container platform service using Kubernetes in Google Cloud Platform infrastructure, microservices container orchestration while Managing Kubernetes charts using Helm and Created builds of the Kubernetes applications, managed Kubernetes manifest files and releases of Helm packages.
- Configured HA Cloud VPN and Interconnect with dedicated tunnels part of migration.
- Using AWS Data Migration services for Database migrations from on-prem to AWS.
- Loading Database dumps and backups into S3 bucket and choosing right RDS Memory optimized instances.
- Setting up Networking, Firewall setup on GCP and AWS projects.
- Creating ADO Release pipelines for code deployments and using AZ DevOps dashboard for task tracking

- Implementing POC's on testing application deployments and performance testing on clouds AWS (ECS, EKS, ECR, EMR, S3, Lambda, EBS, VPC, Route 53) services AZURE (ACR , AKS , VNET's , APP Gateway etc..) and GCP (GCR , GKE , Compute instances , Load Balancers , Cloud VPN , Interconnect)
- Using Cloud Native tools for the deployments AWS – Cloud Formation Templates, Completed CI/CD AWS Stack using AWS Code Commit, Code Build, Code Deploy and Code Pipelines)
- Migrated ADO Repos to AWS Code Commit source control services part of migrating applications from AZ to AWS.
- Created and configured infrastructure using heat templates and REST API calls in GCP using python code to create Instances, security groups, networks, VIPs etc.
- Creating Docker images and creating Node JS containers for micro-services applications and automating the entire flow using Jenkins's pipeline.
- Implemented monitoring cluster with various exporters to monitor every aspect of the cluster for Prometheus, Grafana and alert-manager.
- Implemented remote-node-exporter, SNMP exporter, integrated a java service for SNMP traps collection and push to Prometheus.
- Designed and automated Jenkins pipelines to generate various configurations of Prometheus exporters and deploy to Kubernetes.
- Designing and implementing High Available Kubernetes cluster in Dev, QA and Prod and Own of all Kubernetes clusters.
- Created dashboards for Grafana for custom metrics of the cluster.

Environment: Linux, GCP, AWS, Azure, .Net, Docker, Kubernetes, Jenkins, , Shell Scripting, Python , Ansible , Terraform and CFT Prometheus, Grafana, Fluent, Elastic-Search, Kibana, Artifactory, Redis, Jira, Confluence, Stash, GitHub.

DevOps Engineer   Nov 2015 - July 2019 UST Global

Client - Netapp Jenkins and Kafka, RabbitMQ VCS and Scripting GIT, Bitbucket and Shell Scripting [bash and PowerShell], Automating Jenkins Pipelines and Deployments using Ansible/Python scripts to Install GCP and GKE pods.

- Installing Real Application Clusters on Oracle Databases.
- Applying patches Upgrading databases from lower version to higher version.
- Managing a team to develop the code and deploy in Agile Methodology, Sprint based releases and automated deployments using CI/CD.
- Experience in Managing OpenStack cloud instances and rackspace instances.
- Experience in working with AWS Security tools (IAM).
- Performing DB Patching, SQL application / database upgrades.
- Managing day to day production operations and change management on databases and servers.
- Created and maintained the Python deployment scripts for Web Sphere web application server.
- Used Ansible for deployment to make it easier by avoiding writing scripts.
- Developed shell scripts for automation of the build and release process.
- Jenkins is used as a continuous integration tool for automation of daily processes.
- Performance tuning for slow running queries, Analyzing the SQL plans and stats, Indexes.
- Automating the deployments using shell scripts and experience in working with Virtualization technologies like QEMU, KVM or VirtualBox

Environment: - Oracle 9i,10g,11g and 12c databases, IBM AIX, RHEL, Real Application Clusters, Docker, Ubuntu Bash scripting, Jenkins, ,AWS, Terraform,GIT, Mongo DB , MS SQL , Ansible, Linux/Unix , Windows, Java 1.7 and 1.8.

Database Administrator   Aug 2015 - Nov 2015 TCS

- Handling QA, DEV and production environments and implementing Release lifecycles without down times.
- Hands on experience on writing shell scripts and customizing package installations with scripts.
- Troubleshooting Database, Server, and Network connectivity issues.
- Installing Oracle RAC Databases and fixing Performance issues.
- Installing Unix Servers and applying patches on servers.
- Working on DB Patching and upgrades.

Environment: - Oracle 10g and 11g, MS SQL Server, RAC , Linux / Unix , Oracle Sql developer, Remedy ,Java 1.6.

Oracle Database Administrator   Mar 2012 - Nov 2013 IBM

- Installing Oracle Real application clusters and completed Oracle certifications.
- Writing and analyzing SQL code performance issues.
- Involved in the design of the database for the system.
- Worked with Stored Procedures, Triggers, Function's.
- Developed domain models and object/relational mapping scripts for Hibernate to synchronize domain models and relational models.
- Working on Release management activities and open the deployment related tickets and get the required permissions from third party teams.
- Collaborating with development and operations team members to understand complex product requirements and translate them into automated solutions

Environment: - Oracle 10g and 11g, MS SQL Server, RAC , Linux / Unix , Oracle Sql developer,