Rahul Das Sarkar

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A Cloud Solution Engineer with an overall experience of 3 years 7 months and organized, able to effectively manage tasks to accomplish Projects with timeline and creativity. Good in Linux Administration, AWS services, Azure services and familiar with tools like, Terraform, Prometheus, Grafana, Zabbix, Stackstorm and Ansible. A quick learner and looking to leverage my knowledge and experience to solve real time problems.

Skills

- **Linux:** RedHat, CentOS, AWS Linux, Ubuntu
- **Databases**: MySQL, MariaDB, Oracle
- **Unix Administration:** Apache, Tomcat, Process Management, Bash Shell Scripting, User Management and Troubleshooting.

- **Public Cloud**: AWS, Azure
- **Windows Administration:** User Management, Active Directory
- **Automation & Monitoring Tools**: Jenkins, Docker, ELK Stack, Zabbix, Terraform, Prometheus, Grafana, Ansible, Stackstorm
- **Scripting**: Shell Scripting, Python Scripting.

Trainings & Certifications

- Completed and having hands-on with AWS Sys-Ops Administrator Associate & Solution Architect Training.
- Completed and having hands-on with Azure Cloud Infrastructure Deployment and Monitoring Training.

Experience

1. SEP, 2017 – NOV, 2017

DevOps Intern / Srijan Technologies Pvt. Ltd., Bangalore India

2. 27TH NOV, 2017 – 5TH NOV, 2019

Senior Engineer (Cloud) / Redington Gulf – India Branch (Citrus Consulting), Bangalore, India

3. 09TH NOV, 2019 – TILL DATE

Cloud Solution Engineer / Abilitate Consulting Pvt. Ltd. (Hybridskill), Bangalore, India (Client – Myntra Design PVT. Ltd.)

Education

2012 – 2016

Bachelor of Engineering / R.L. Jalappa Institute of Technology, Bangalore, India

Experience Summary

Currently working as Partner Consultant (Sysops Engineer) for the Client – Myntra Design Pvt. Ltd.

- Implementation of Production LDAP Server on Azure Platform for authenticating the users to access the production, staging and dev Servers via jumphost.
- Migration of On-Premise and AWS Production Servers to Azure Platform.
- Migrating S3 buckets to Azure Blobs.
- Automation scripts for generating AWS and Azure Users Activity Report and verifying their presence in organization from the LDAP.
- Launching the Infrastructure on Azure Platform using Terraform.
- Configuring multiple servers with Ansible.
- Configuring all servers with Dnsmasq and putting them under specific Power DNS Clusters.
- Configuring setting up monitoring dashboard and alerts for monitoring the metrics of Data sources, such as, Kafka, Zookeeper, Elasticsearch using Prometheus and Grafana.
- Responsible for Cost Optimisation by pulling out Daily & Monthly Cost of Azure & AWS Resources, using scripts.
- Supporting the Developer Teams for any issues for the Infra point of view.
- Responsible for automating the manual tasks, using DevOps automation tools and Scripting.
- **Infra Provisional Automation (End-to-End)**
    1. Currently working on this project to set up an end-to-end automation Pipeline with a self-serve portal for end-users, who can launch their VMs as per their available quota, by using Python, Terraform, Backend tool: Stackstorm for controlling the whole workflow and queuing.
    2. Implemented the Terraform Module based templates for resource creation.
    3. Automation for Terraform Template Creation using Jinja Framework of Python.
    4. Validating the requests submitted by user using customised defined workflow written in Python.

5. Notifying users through Slack post infra position with server details.

Azure Resource Cost & Utilizations Representation on Grafana Dashboard

- This Project is implemented by creating multiple Cost Dashboards on Grafana, using technical stack, such as Python for the Scripting & Coding purpose, push-gateway, Prometheus as data source.
- This Dashboard helped the users to visualize their Utilizations & Costs for the resources they are using, also gets more customized data which is not available on Azure Cost Dashboard.
- Extracted the raw data and modified it into metrics using Python, then we used to push it to Push-gateway, from where Prometheus used to Scrap the data and used Grafana to visualize it.
- Implemented recording rules to minimize the loading time of Dashboards.
- Configured alerts for the configured thresholds using alert-manager and Grafana alerting models.

Core-Banking & E-Banking based platform setup on AWS for a company based in Egypt

- Implemented a VPC in AWS Ireland region as per the requirements from the Architecture team for DEV, Staging and Production
- Implemented Security and hardening policies for the VPC and Security Groups for DEV, Staging and Production
- Launched Red Hat Linux 7.4 based EC2 Instances for the Dev, Staging and Production environment
- All the Red Hat Linux Servers are hardened using CIS Hardening Tool
- Configured all the servers with all the Finacle pre-requisites, such as, package installations, user creations, password less SSH configuration, partition and volume mounting
- Launched and configured Oracle RDS for the requirement of database
- Launching Active Directory Service for respective environment and joining all the Servers under Active Directory.
- Configuring all the EC2 servers, RDS and ELB under Domain Name Service
- User management through Active Directory
- Launched Amazon Workspaces for Desktop as a Service for the client
- Implemented Palo Alto Site-to-Site VPN for each environment
- Configuring Palo Alto TRAPs on all the Production Servers
- For Infrastructure monitoring implemented Zabbix Monitoring and Alert System for all the Ec2 Instances
- Configured Backup Service for all the resources
- Configured all the Production and Staging Nodes with High Availability
- Implemented ELK stack for the purpose of monitoring Application Logs

PHP based Web Application on Azure Cloud Platform for a company based in Dubai

- Implemented the whole infrastructure on Azure for testing and Staging
- Deployed Centos Linux based Virtual Machines for hosting the Application and MySQL Database
- Deployed Application Gateway Load Balancer on the top of VMs for accessing the Application and to configure WAF

Migrated Production OTRS Server from AWS to Azure using Azure Site Recovery

- Migrated of the Production OTRS Server from AWS to Azure
- Used the Replication Service of Azure Site Recovery for Migrating

SAP BI Based Application Setup on AWS for a company based in Dubai

- Implemented a VPC in AWS Ireland region as per the requirements from the Architecture team

- Implemented Security and hardening policies for the VPC and Security Groups
- Configured EC2 Windows Instance for hosting the SAP BI Application
- Configured Active Directory, for the Remote Desktop Services and the server is added to Active Directory.
- Implemented Point-to-Site VPN for the remote users.
- Setup Multiple User Login simultaneously for the SAP BI based Remote APP, which has been hosted using Remote Desktop Service
- Setup Daily Backup for the SAP BI Server

Migration of on-premise Sage-50 Based Platform setup to AWS for a company based in Dubai

- Implemented a VPC in AWS Ireland region as per the requirements from the Architecture team
- Implemented Security and hardening policies for the VPC and Security Groups
- Migrated the Sage 50 data from on premise to S3 Bucket using S3 Sync tool
- Configured EC2 Windows Instance for hosting the Sage 50 Application and the migrated data are synced to EC2 Instance Drive.
- Configured Active Directory, for the Remote Desktop Services and the server is added to Active Directory.
- Setup Daily Backup for the Sage-50 Server

Magento based E-Commerce platform setup on AWS

- Performed costings and Total cost of ownership for the Magento e-commerce platform as oppose to setting it up on an on-premise hardware infrastructure
- Implemented a VPC in AWS Ireland region as per the requirements from the Architecture team
- Implemented Security and hardening policies for the VPC and Security Groups
- Implemented Magento 2.0 on a highly available EC2 infrastructure setup with a highly available RDS infrastructure
- Setup Magento EC2 instance backups and disk snapshots
- Deployed the same infrastructure across development, testing and production zone isolated through network groups and security groups

Log Analytics Platform setup on Dockerised ELK Stack

- Played a role as DevOps Intern in this POC responsible for implementation of a Dockerised ELK Stack and basic visualization on Kibana
- Technology stack used: Docker, Git, Linux-Ubuntu, Elasticsearch, Logstash, Kibana

Drupal Based Web Application setup on Dockerised LAMP stack

- Played a role as DevOps Intern in this POC responsible for implementation of a Dockerised LAMP Stack for the Drupal Based Web Application and automation testing using Codeception
- Technology stack used: Docker, Git, Linux-Ubuntu, PHP, Drupal, Codeception