Lakshumu Naidu Dannana

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LakshumuNaiduD

Staff Site Reliability Engineer (R&D Cloud Engineering) at CyberArk, India. My work lies in improving observability, monitoring, and logging of solutions, IaC and automation and which required the intersection of Software engineering (SE), developer productivity. My recent work has focused on developing and maintaining large scale software repositories, building and maintain the resilient infrastructure for world class security products.

Also work on understanding the developer's productivity and impact on release management, automation of human intervention of tasks. My work has led to successful technology transfers, driving measurable improvements in engineering infrastructure and enhancing application reliability within the industry.

EXPERIENCE (~10.7 YEARS)

JANUARY 2022 - PRESENT
STAFF SITE RELIABLITY ENGINEER(R&D), CYBERARK, INDIA

I work for R&D Cloud Engineering group at CyberArk. I lead projects that aim at building large-scale, distributed data platforms and services for solving problems that occur at various phases of DevOps life cycle. I drive all the aspects of a project: research, setting up the vision, engineering, product management and strategy, deployment, and overseeing tech transfers. My job involves collaborating with people across these job disciplines and from different organizations inside CyberArk.

APRIL 2015 – JANUARY 2022
SENIOR SOFTWARE ENGINEER(R&D), FACTSET RESEARCH SYSTEMS, INDIA

Part of a research group that built various automation/orchestration products and services. These services are widely used by FACTSET Content Engineering Teams. My job involves here to manage the cloud infrastructure and implement DevOps best practices efficiently for different inhouse Financial Applications.

PROJECTS

pCloud

pCloud is a SaaS model of Privileged Access Security Solution provided by CyberArk to the customers. As part of R&D Cloud Engineering Team, my work is to create and maintain the resilient infrastructure for the SaaS product. And implement the DevOps Practices to deploy the releases to the customers. And implement the best monitoring and observability tools to keep the infra and application always on. And responsible for maintaining the security best practices at infrastructure and application configurations. Worked on implementing the best practices to reduce the cloud costs. As part of this worked with different tools like Ansible, terraform, PowerShell, Python, AWS Services.

Workflow

Workflow is task management tool developed and maintained by FactSet. Most of the internal clients and teams uses this product to smooth transition and completion of their day-to-day works. As part of R&D Team we build and reliable and resilient infrastructure using various AWS services. The initial infrastructure for this product was on on-premises hosted on Windows servers and SQL servers. I led the migration of this product from on-premises to AWS cloud. I did R&D to

EDUCATION

2012-2014
MASTER OF TECHNOLOGY (M. TECH), ANDHRA UNIVERSITY.
Computer Science and Technology

2006-2010
BATCHELOR OF TECHNOLOGY (B. TECH), JNTU-KAKINADA.
Computer Science and Engineering

SPECIALIZED-IN

Cloud Architecture & Technical Leadership
Cloud Migration & Infrastructure Leadership
Team Development

AWS SERVICES

EC2 S3 VPC IAM Auto Scaling SNS Lambda Cloud Trail API Gateway Kinesis Secrete Manager CloudFront RDS Route 53 AMI CloudWatch ECS EKS

IAC Tools

Terraform CDK CloudFormation

Configuration Management Tools

Ansible PowerShell

Orchestration Tools

Kubernetes AWS EKS ECS
Dockers

CICD

Jenkins

SCM

Git GitHub Hg

PLATFORM

AWX Ansible Automation platform (AAP)

DATABASE

SQL Server
RDS
DynamoDB

OPERATING SYSTEM

Windows
Linux

identify the right technology and services to host the same application on cloud. Collaborated with application team to transit the app from standalone/web application to micron service application and hosted the same on ECS containers. Also designed and developed the monitoring tools to track the application.

Buckets:

Buckets is one of the well know financial product developed and maintained by FACTSET to collect and store the real-time financial data. The product was different components as part of collection, and which is also hosted on on-premises (Windows and SQL Servers). As part of R&D Team we did the analysis of the existing infrastructure and designed the solution to migrate the product infra to AWS. Collaborated with AWS team to design and migrate the SQL server data to PostgreSQL. And migrated all the Windows servers to AWS EC2 instances and configured all the real time jobs. Worked with different tools like Ansible, terraform, PowerShell, python to migrate the on premises infra to AWS cloud.

Data Lake:

The new generation centralized data collection tool designed and developed by FACTSET to collect real time data from different sectors like financial, healthcare, transport etc. As part of R&D DevOps engineer my work for this project includes the design and develop the resilient reliable infrastructure using Ansible, terraform, python. Implemented a CICD pipeline for smooth release process. Also designed the application and infra monitoring using Grafana, FluentD and Telegraf. This is an opensource monitoring platform build and implemented by our team and which is also used by many other products in FACTSET.

SRE

SLA SLO SLIs Error budgets MTTR MTTD
RCA Incident Management

Observability

ELK Grafana Datadog CloudWatch

FinOps

Capacity Planning
Cost optimizations

SECURITY

SOC
WAF
WIZ
Cloud Custodian
AWS Guard Duty
Synk
Cloudflare

AWARDS

FactSet Star Performer award for 2021
FactSet Star Performer award for 2019

LANGUAGE

Telugu English Hindi

INTERESTS

Cricket
Trekking

PUBLICATIONS

1. D. Lakshumu Naidu, Ch Seshdri Rao and Suresh Chandra Satapathy. A Hybrid Approach for Image Edge Detection Using Neural Network and Particle Swarm Optimization.[Paper]

DECLARATION

I hereby declare that the information furnished above is true to the best of my knowledge.

Place: Hyderabad D. LAKSHUMU NAIDU

Date: