AKASH PANDEY

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"Goal-oriented and dedicated professional delivering on-time solutions for Cloud Infrastructure Management. Seeking to be a part of IT Delivery team that dynamically works towards the progressive growth of the organization"

Profile Summary

➤ Results driven **Cloud DevOps Engineer** with 12 years of experience in designing, deploying, automating cloud infrastructure, DevOps automation, software development and IT Operations.

➤ Proven expertise in implementing scalable, secure, and high-availability solutions using AWS, **Terraform**, Jenkins, Groovy, Ansible, and Python.

➤ Hands-on experience in developing and managing **CI/CD pipelines** for Terraform Module, Provider, Policy as Code and Infrastructure as Code (**IaC**) functionality.

➤ Expertise in recommended best practices, well architected framework. Handled **AWS Cloud** infrastructure on global scale for more than 6 years working on services like Step Functions, CodeBuild, CloudFormation and Service Catalog in AWS.

➤ Proficient in containerization Docker, **Kubernetes** and cloud-native solutions.

➤ Ensured the utilization of **Agile** methodologies and **ITIL** practices in IT operations.

➤ Passionate about learning and collaborating with cross-functional teams to drive **digital transformation** and operational efficiency.

Employment Details

Period	Employer	Designation
10 Oct 2012 to 27 July 2015	HCL Technologies Ltd.	Senior Analyst
03 Aug 2015 to 02 Jan 2020	AstraZeneca India Pvt. Ltd.	Engineer IT
06 Jan 2020 to 24 Nov 2022	Barclays Global Service Center	Public Cloud Engineer
07 Dec 2022 to till date	Bank Of America	Software Engineer III

IT Skills

➤ Cloud: AWS, Azure
➤ DevOps Tools: Bitbucket, Jenkins, Ansible, Terraform
➤ Coding Language: Python, Groovy
➤ Container Services: Docker, ECS, Kubernetes
➤ Virtualization: VMware. vSphere, vCenter

Professional Experience

December 2022 – Present as Software Engineer III, BoA

➢ Currently part of **platform** building team, working on developing and managing the platform for software deployment across the Bank.

➢ Worked on developing and managing dedicated **CI/CD pipelines** for Terraform Module, Provider, Policy as Code and Infrastructure as Code (**IaC**) functionality.

➢ Enabling building and deployment of infrastructure to private/public Cloud using Terraform by means of Infrastructure as Code (IaC).

➢ Developing scalable CI/CD pipelines using Jenkins. Working on Groovy scripts for pipeline automation and job orchestration.

➢ Hands-on experience with Ansible for configuration management and deployment automation.

➢ Actively involved in release process like Code review, Code merge, CRQ process and releasing newer features to customers and end-users.

➢ Extensively worked on release orchestration tool XLRelease and Bank's in-house configuration management tool called Celestial for SDLC.

➢ Worked on monitoring insights about adoption of pipelines, number of builds, failures and log messages using Splunk dashboards.

January 2020 – November 2022 as Public Cloud SRE, Barclays

➢ Part of Cloud SRE team providing global support to Barclays Bank.

➢ Worked on various AWS services - Compute services (**EC2**, ELB & Auto Scaling), Storage services (**S3**, EBS, Glacier) **Lambda**, RDS, ECS, **CloudTrail** and CloudWatch.

➢ Troubleshooting EC2 instances connectivity and performance issues.

➢ Implementation of high availability solutions with **Auto Scaling** and load-balancers.

➢ Used **IAM** to assign roles, create and manage AWS users, groups and permissions to use AWS resources.

➢ Extensively worked on Networking service (**VPC**, Security groups, Subnets, VPN tunnels and Transit Gateway)

➢ Troubleshooting network connectivity and latency issues between existing on-premise application to AWS Cloud.

➢ Worked on issues like **VPN** tunnel flapping and fixing it by patching the tunnels.

➢ Troubleshooting Pull requests, pipeline issues from **Bitbucket** and Jenkins for product deployment on user AWS accounts.

➢ Analyzing executions and its log in Step Functions and re-running the job from **Jenkins**.

➢ Validating the **CodeBuild** jobs and identifying potential errors in the code.

➢ Building AWS infrastructure, stacks using YAML\JSON template via **CloudFormation** service. Worked on identifying issues with user templates too.

➢ Created alarms, monitored & collected log files on AWS resources using **CloudWatch**. Integrated it with the SNS.

➢ Worked on **KMS**, enabling auto rotation for keys, using it to encrypt EBS volumes, S3 and other AWS resources.

➢ Deploying **RDS** database instances and configure it to establish communication between on-premise and AWS.

➢ Experience in creating, managing and utilizing S3 buckets and Glacier for archival storage and backup on AWS.

- ➤ Knowledge on AWS Route53, Secrets Manager, CloudFront, **ECS** & Trusted Advisor.
- ➤ Used and worked on AWS CLI for day to day activities and troubleshooting.
- ➤ Coordinate with AWS support team to increase the service limit for AWS resources as per application team's requirement.
- ➤ Analyze outages, worked on priority tickets Sev 1 & 2, driving them for analysis and resolution.

August 2015 – January 2020 as Engineer IT, AstraZeneca

Experience in AWS
- ➤ Worked on EC2 Right Sizing, EC2 reserved instance and cost optimization.
- ➤ Part time hosting of EC2 instance for cost saving using AWS Lambda function.
- ➤ Creation and assignment of Security groups at EC2 level.
- ➤ Hands on Experience in migrating VMware VM to AWS through SMS.
- ➤ **S3 Bucket** creation and cross region replication.
- ➤ Have worked on AWS **Trusted Advisor** report to delete the unused **EBS volumes** and saved cost to the company.

Experience in VMware
- ➤ Have managed VMware infrastructure 5.0, 5.5 & 6.5 including 1000+ ESXi hosts on HP C7000 enclosures and Cisco UCS hardware.
- ➤ Maintained & provided support for around 12000 servers (Physical, virtual & Cloud).
- ➤ Configuring HA, DRS, vMotion and vApp as per the environment requirement.
- ➤ Performing **Installation** and **vSphere Infrastructure platform upgrade** (vCenter from 5.0 to 5.5 and from 5.5 to 6.5 and ESXi hosts from 5.0 to 5.5).
- ➤ Managing datastore alarms and coordinating with storage team for storage related issues like datastore disconnections and APD issues.
- ➤ Coordinating with backup team for providing solutions to backup related issues in VMs like CTK and snapshot consolidation.
- ➤ Worked on performance and capacity management, tasks includes identifying servers that needs performance tuning and taking appropriate actions.
- ➤ Successfully worked and implemented more than 100+ Change Requests (Standard, Normal and Emergency).

Experience in Windows & Citrix
- ➤ Hands on experience in administering Windows 2003/2008/2012/2016 server.
- ➤ Troubleshooting Server hung issues and providing root cause.
- ➤ Analyzing Server unexpected reboot issues and providing solution.
- ➤ Around 2 Years of Hand on work experience in core **Citrix XenApp**.
- ➤ Worked and successfully resolved user reported incidents involving Citrix receiver and user profiles in Citrix XenApp.

Certifications & Trainings

- AWS Certified Solutions Architect – Associate.
- Certified Kubernetes Administrator.
- Certified by Edureka as DevOps Engineer -- UT24QAZ318.
- VMware Certified Professional 6 - Data Center Virtualization.
- ITIL V3 Foundation Training.

Recognition & Contributions

- Top Performer at Bank of America and Barclays.
- Star Performer Award – AstraZeneca.
- Certificate of Appreciation - HCL Technologies.
- Actively associated in providing KT to new joiners.

Educational Qualifications

- Graduation: B.E ECE in Sree Sastha Institute of Engineering & Technology, Chennai with 6.5 CGPA in the year 2012.
- Higher Secondary: Santhome Hr. Sec. School, Chennai with 82% in the year 2008.
- Senior Secondary: Hindu Senior Secondary School, Chennai with 86% in the year 2006.

Personal Details

Date of Birth: 20th December 1990
Address: A1, Nest Icon, 1st Street, Ishwaryam Garden Extension Vengaivasal, Medavakkam, Chennai-600100
Languages known: English, Hindi, Tamil, Telugu

Declaration

I hereby declare that the above given particulars are true to the best of my knowledge and belief.

Date:

Place: Chennai   **Akash Pandey**