Raj R

Senior Azure Engineer, 10+ years experience
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I am a Lead Azure Infrastructure Engineer with **10+ years of experience** in designing, managing, and optimizing cloud environments. I specialize in Azure IAM, RBAC, Azure AD administration, and infrastructure automation using Terraform, Azure CLI, and PowerShell scripting. My expertise includes CI/CD pipeline implementation, cloud monitoring, and troubleshooting with Azure Monitor and AWS CloudWatch. I have strong hands-on experience with PostgreSQL, AWS RDS, S3, and orchestration tools like Airflow. With a solid background in Python, Linux, and shell scripting, I ensure secure, scalable, and high-performing infrastructure solutions. I am dedicated to driving cloud best practices, strengthening security and governance, and delivering reliable enterprise-grade systems.

INDUSTRIES: Software and Platforms, Software

TECHNICAL SKILLS

• CI CD Pipeline	7 years
• IAM	5 years
• RBAC	5 years
• Azure DevOps	5 years
• AZURE CLI	5 years
• GitHub Actions	5 years
• Security	5 years
• Powershell	5 years
• Azure Cloud	5 years
• Terraform	3 years
• Docker	3 years

SOFT SKILLS

Teamwork, Critical thinking

PROJECT DETAILS

• Cisco Contact Data Foundation

Project Description: Led the optimization of Ciscos Contact Data Foundation (CDF) platform to enhance the accuracy and availability of customer and account data across multiple Cisco products. Implemented data infrastructure and automation frameworks to improve reliability, scalability, and performance across 5 TB of production data. Built and managed secure Azure DevOps pipelines with strong focus on RBAC- and IAM-based access controls, while standardizing infrastructure provisioning using Terraform. Ensured strong automation, observability, and data reliability across the entire platform.

Responsibilities: Azure IAM & RBAC Administration: Designed, implemented, and managed Azure Identity and Access Management (IAM), including RBAC roles, Azure AD groups, role assignments, and conditional access policies to ensure secure and compliant access across cloud environments. PowerShell Automation: Developed and maintained advanced PowerShell scripts to automate identity lifecycle management, Azure AD operations, role assignments, and security configurations reducing manual administrative effort and ensuring consistent access control enforcement. Terraform for Azure Infrastructure: Built and maintained reusable Terraform modules to provision Azure resources such as Azure AD groups, role assignments, managed identities, Key Vault, Storage Accounts, and networking components using Infrastructure as Code best practices. Azure Governance & Security Controls: Implemented governance policies and security baselines aligned with least privilege, zero trust, and CI CD security gates. Ensured compliance with audit requirements through standardized role design, conditional access, and automated policy enforcement. Access Issue Troubleshooting: Troubleshot and resolved IAM, RBAC, and Azure AD related access issues across subscriptions, resource groups, and service principals. Ensured smooth developer experience while maintaining compliance and security controls. Python Development: Applied Python programming techniques, including functional and object-oriented programming, to build scalable data solutions. Utilized concurrency and concurrent programming techniques to optimize performance and efficiency. Ensured high quality code through rigorous test driven development and unit tests. Infrastructure Automation & Scripting: Automated recurring infrastructure tasks such as log collection, policy remediation, and user group provisioning using PowerShell, Azure CLI, and Terraform. Improved operational efficiency and reduced configuration drift. Monitoring & Reliability: Implemented CloudWatch and Grafana dashboards to monitor database performance, Airflow DAG failures, and EMR job metrics, achieving proactive incident response and reduced downtime. Azure Resource Management: Managed cloud environments across Azure subscriptions by implementing consistent RBAC structures, managing managed identities, assigning custom roles where needed, and ensuring secure and governed access patterns across DevOps, Security, and App teams. Automation & Tooling: Developed Python scripts for database maintenance, backup verification, and Airflow DAG validation, enhancing automation and minimizing operational overhead.

Technologies: Azure IAM & RBAC, Terraform , CI/CD , Azure CLI

Industry: Software and Platforms

• : Robert Bosch Data Integration

Project Description: Worked in a data integration project for Robert Bosch, focusing on consolidating and optimizing data flows from multiple sources. Created and managed robust data pipelines leveraging AWS services, processing 5 TB of data, which improved data processing efficiency by 40% and ensured high availability.

Responsibilities: Spark Application Development: Developed and tested scalable Spark applications on AWS EMR using Java and Python, processing 5 TB of data, reducing processing time by 35% for large datasets. Data Architecture: Designed and implemented scalable data architectures using AWS Glue for ETL and AWS S3 for storage, optimizing data flow and performance to meet business needs and support advanced analytics. NoSQL Database Management: Worked with Cassandra and integrated it with AWS S3 for data backup and retrieval, enhancing reading and writing performance, and dynamically scaling clusters, leading to a 25% improvement in data processing speed. Workflow Automation: Automated data workflows using AWS-managed Airflow and Jenkins resulting in a 30% reduction in manual intervention and improving operational efficiency. Data Modeling: Developed and maintained complex data models using AWS Glue to enable efficient data integration, transformation, and analytics, enhancing data accuracy and accessibility across enterprise systems. Cloud Data Integration: Integrated AWS services like S3, EMR, and Glue to streamline data flow and support high-volume processing, increasing system scalability and resilience.

Technologies: AWS EMR using Java and Python, AWS Glue , AWS S3 ,Jenkins

Industry: Software

EDUCATION

• Bachelors degree in Bachelor of Engineering in Computer Science and Engineering from Anna University Chennai — 2009 - 2013

LANGUAGES

• English - native

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