Job Title: Cloud Migration Architect
(AWS, Azure, GCP, Migration Strategy, Infrastructure Modernization)

Responsibilities

- Lead end-to-end cloud migration projects from assessment through execution and post-migration optimization
- Design comprehensive migration strategies including lift-and-shift, re-platforming, and re-architecting
- Conduct detailed assessments of existing on-premises and legacy infrastructure
- Develop migration roadmaps, timelines, risk assessments, and resource plans
- Architect target cloud environments ensuring scalability, high availability, security, and cost efficiency
- Design and execute database migration strategies with zero data loss and minimal downtime
- Lead application modernization initiatives, migrating monolithic applications to microservices
- Implement migration automation using AWS Migration Hub, DMS, CloudEndure, Azure Migrate
- Design and implement Infrastructure as Code (Terraform, CloudFormation) for repeatable migrations
- Migrate workloads to Kubernetes environments (EKS, GKE, AKS) with GitOps workflows
- Establish CI/CD pipelines to support automated deployments during and after migration
- Design and implement security controls, IAM policies, and compliance frameworks during migrations
- Conduct performance testing and optimization of migrated workloads
- Implement post-migration monitoring, logging, and observability solutions
- Optimize cloud costs post-migration through rightsizing, autoscaling, and lifecycle management
- Troubleshoot migration issues including compatibility, performance, networking, and data integrity
- Document migration processes, runbooks, and lessons learned

Required Qualifications

- **5+ years** of professional experience in cloud migrations and infrastructure
- Proven track record of successfully leading multiple cloud migration projects
- Strong hands-on experience with:
    - AWS (EC2, EKS, ECS, S3, VPC, RDS/Aurora, DynamoDB, Lambda, Route53)
    - Azure (App Services, VNet, Azure Migrate, Database Migration Service)

- GCP (Compute Engine, GKE, Cloud Storage, Database Migration Service)
  - Migration tools (AWS Migration Hub, DMS, SMS, CloudEndure, Azure Migrate)
  - Infrastructure as Code (Terraform, CloudFormation, ARM Templates)
  - Container migration (Docker, Kubernetes, EKS, GKE, AKS, Fargate)
- Migration Strategies:
  - Lift-and-shift (rehosting)
  - Re-platforming and re-architecting
  - Hybrid cloud migrations
  - Application modernization
- Databases:
  - SQL (MySQL, PostgreSQL, SQL Server, Oracle)
  - NoSQL (MongoDB, DynamoDB, Cosmos DB)
  - Database replication, high availability, disaster recovery
- Networking & Security:
  - VPC design, subnetting, routing, peering
  - VPN, DirectConnect, ExpressRoute
  - Load balancers, firewalls, security groups
  - IAM, encryption (KMS), SSL/TLS, WAF
- Experience with CI/CD pipelines (Jenkins, GitHub Actions, GitLab CI/CD, GitOps)
- Experience with monitoring tools (Prometheus, Grafana, CloudWatch, ELK/OpenSearch)
- Strong understanding of virtualization (VMware vSphere, Hyper-V)
- Strong problem-solving and troubleshooting abilities
- Experience working with AI tools to accelerate migration execution

Nice-to-Have Skills

- Cloud certifications (AWS Solutions Architect, Azure Solutions Architect, GCP Professional Cloud Architect)
- Experience with serverless migration strategies (Lambda, Azure Functions)
- Knowledge of data migration for analytics platforms (Redshift, BigQuery, Snowflake)
- Experience with SAP, Oracle EBS, or ERP migrations to cloud
- Familiarity with compliance frameworks (PCI DSS, GDPR, HIPAA, SOC2)
- Knowledge of DevSecOps practices and security scanning tools
- Experience with service mesh technologies
- Experience working in agile or scrum-based methodologies
- Strong presentation and workshop facilitation skills
- Ability to mentor teams on migration best practices
- Willingness to stay current with migration tools and methodologies
- High sense of ownership and accountability for migration outcomes