

Manish Kumar

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Career Objective

AWS Certified Solution Architect – Associate with hands-on experience in designing and deploying secure, highly available, scalability and cost-effective cloud architectures. Seeking to apply my skills in AWS services, networking, and infrastructure and automation to deliver business-focused solution.

Skills

- AWS Core Services- EC2, S3 bucket, RDS, VPC, Lambda, DynamoDB, CloudFormation
- Networking Concepts: Security Group, subnets, NAT, Direct Connect, Internet Gateway (IGW), Transit Gateway, VPN, route tables
- Security and IAM: roles, access key, policies, least privileges
- High Availability: multi-AZ RDS, multi-region, Load Balancers (ALB), Auto Scalling Groups.
- Billing and Cost Optimization: pricing models, cost explorer, saving plans, budget handling.
- Work with stakeholders: business managers, developers and ops teams
- Create workflow architecture and explain them
- Write documentation & code for deployment.

Tools & Services Used:

- Core AWS: EC2, RDS, VPC, Lambda, CloudFormation, ECS/EKS, CloudFront
- Security: IAM, KMS, Cognito, WAF, Shield
- Networking: VPC, Subnets, Route53, NAT, IGW, Transit Gateway, Load Balancers
- Monitoring: CloudWatch, CloudTrail
- IaC: CloudFormation, Terraform

- CI/CD: CodeDeploy, CodePipeline, CodeBuild

Certifications

- AWS Certified Cloud Practitioner (CF02) - Udemy
- AWS Certified Solution Architecture (SOA-02)

Projects & Practices

1. Availability of Web Hosting in AWS
 - Designed and deployed a two-tiered web application with high availability.
 - AWS Services used: EC2, Auto Scaling, RDS, S3, Route53, CloudFront, Elastic Load Balancer (ELB), ALB
 - Achieved 99.9% uptime in simulated traffic loads
2. Serverless Application with AWS Lambda
 - Build Serverless web game application
 - AWS services used: Lambda, S3 bucket, API Gateway, DynamoDB, CloudWatch
3. Secure VPC Architecture for an Enterprise Application
 - Design and deployed a three-tiered web application with high latency and separate Public and Private network for frontend and backend application
 - AWS Services used: VPC, Subnets (Public and Private), Security Groups, IAM, CloudTrail
 - Enabled CloudWatch and CloudTrail for monitoring and logging.
4. CI/CD Pipeline on AWS
 - Automated Web application deployment with CI/CD.
 - AWS Services used: CodeBuild, CodeDeploy, CodePipeline, S3, CloudFormation
 - Configured CI/CD Pipeline for application builds and deployment
 - Used CodeDeploy for rolling updates on EC2 instances
 - Reduced deployment timing from 1 hr to 10 minutes.

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Professional Experience

Research Associate, RDSC,TLC – Ramanujan College, University of Delhi (2021 – 2023)

Computer Lab Assistant – Shyama Prasad College for Women (2019 – 2022)

Senior Technical Assistant – Sri Aurobindo College Evening (2017 – 2018)

- - Installed and configured computer systems for faculty/students.
- - Assisted in college IT administration, networking, and seminars.
- - Managed technical documentation and troubleshooting.

Intern Programmer – PNS, IIC, UDSC (2013 – 2015)

- - Built web forms and internal databases.
- - Troubleshot hardware and software integration issues.

Education

- MCA – Bharati Vidyapeeth University, Pune | 2013

- BCA – Sharda Group of Institutes, CCS University | 2010

- 12th Passed: Dhanpat Mal Virmani Senior Secondary School, Roop Nagar, Delhi-110007
from CBSE Board | 2004

-10th Passed: S.M. Jain Sr. Secondary School, Kamla Nagar from CBSE Board | 2001