Bhanu Kiran

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Objective

Eager to move into the cloud computing market and have a solid background in AWS services. actively looking for an opportunity to use cloud technologies like EC2, S3, IAM, Auto Scaling, and more to get started and begin adding value to an organisation. Prepared to make a contribution to cloud initiatives and support innovation right away.

Education

Bachelor of Science (BSc) 2019
Telangana University

Technical Skills

Cloud Technologies:	Compute: Amazon EC2, Auto Scaling, Elastic Load Balancing (ELB) Storage: Amazon S3, Amazon EBS Security: IAM (Identity and Access Management), Security Groups Networking: VPC, Route 53 Database: Amazon RDS, DynamoDB Monitoring: CloudWatch, CloudTrail Automation: AWS Lambda, CloudFormation
Programming Languages:	Python, Bash, C
Web Technologies:	HTML, CSS, JavaScript
Databases:	SQL, DynamoDB
Operating Systems:	Windows, Linux
Tools:	Git, Postman, MS Office

Certifications

AWS Certified Solutions Architect – Associate (In Progress)

Technical Knowledge

Compute (EC2): Proficient in launching, configuring, and managing Amazon EC2 instances. Familiar with EC2 instance types, key pairs, security groups, and SSH access. Experience with creating and managing AMIs (Amazon Machine Images) for instance reuse.

Storage (S3): Strong understanding of Amazon S3 for scalable object storage. Knowledge of bucket creation, file upload/download, and bucket policies. Hands-on experience with S3 versioning, lifecycle policies, and cross-region replication. Experience in securing S3 buckets using IAM policies, bucket policies, and encryption.

Networking (VPC & Route 53): Knowledge of Amazon VPC to create isolated network environments, configure subnets, route tables, and internet gateways. Familiar with Route 53 for domain registration and DNS management. Implemented routing policies such as simple routing, failover, and latency-based routing.

Security (IAM): Strong understanding of IAM to manage users, groups, and roles with granular access permissions. Knowledge of IAM best practices, including the principle of least privilege and the use of IAM roles for service access.

Database (RDS & DynamoDB): Experience in setting up and managing Amazon RDS databases, including MySQL and PostgreSQL engines. Knowledge of multi-AZ deployments, automated backups, and read replicas for high availability. Familiarity with DynamoDB for NoSQL database use cases, including table creation and managing throughput capacity.

Auto Scaling & Load Balancing: Hands-on experience with Auto Scaling groups to ensure application availability and scaling based on demand. Knowledge of Elastic Load Balancing (ELB) for distributing incoming application traffic across multiple EC2 instances.

Automation (Lambda & CloudFormation): Familiar with AWS Lambda for serverless computing, handling event-driven tasks, and integrating with other AWS services. Knowledge of CloudFormation for Infrastructure as Code (IaC), creating and managing AWS resources through templates.

Monitoring (CloudWatch & CloudTrail): Proficient in using CloudWatch for monitoring resource usage, setting up alarms, and creating dashboards for real-time metrics. Experience with CloudTrail for auditing API activity and ensuring compliance.

Personal Projects

Serverless Web Application with AWS

- Built a serverless web application using AWS Lambda for backend logic and API Gateway for HTTP request handling.
- Implemented secure file storage with S3, utilizing IAM roles for access control.
- Deployed the application using CloudFormation for seamless infrastructure management.

Auto Scaling and Load Balancing Setup

- Configured an Auto Scaling group to automatically scale EC2 instances based on load.
- Integrated Elastic Load Balancing to ensure high availability and distribute traffic across instances.
- Monitored instance performance using CloudWatch alarms to trigger scaling events.

RDS Setup with Multi-AZ Deployment

- Created a highly available RDS instance with Multi-AZ deployment for fault tolerance.
- Configured automated backups, snapshots, and monitoring for database performance and recovery.

VPC & Route 53 Network Setup

- Designed and deployed a VPC with public and private subnets, configured route tables, and security groups.
- Integrated Route 53 for DNS management, implementing a failover routing policy to ensure application reliability.