Karthick Raja

Production Engineer

PROJECTS

BACKUP AND RESTORE WITH AWS S3 AND GALCIER

- Designed and implemented an automated cloud-based backup and restore solution to safeguard data with AWS S3 for active storage and AWS Glacier for long-term, cost-efficient archival

- Created S3 buckets and configured versioning to ensure data redundancy and integrity.

- Automated backups with AWS CLI and scheduled regular backups via cron jobs, ensuring timely and consistent backups

- Applied S3 Lifecycle policies to transition data to AWS Glacier, reducing storage costs by 80%.

- Set up CloudWatch monitoring to track backup performance and created CloudWatch alarms for error detection and failure notifications.

- Achieved rapid disaster recovery by implementing various retrieval options for Glacier stored data.

LOG MONITORING WITH CLOUDWATCH AND SNS

- Developed a real-time log monitoring system using AWS CloudWatch and SNS to monitor application logs and alert stakeholders to critical issues.

- Configured CloudWatch Log Groups to collect logs from multiple services and set up CloudWatch Alarms to detect errors or threshold breaches

- Integrated SNS to send email/SMS notifications immediately when an alarm was triggered, ensuring rapid response to incidents.

- Optimized troubleshooting by consolidating logs and leveraging CloudWatch Logs Insights for better log search and analysis.