

# Payal Mohapatra

+91- 9439907205

E-mail: [payal.mohapatra1994@gmail.com](mailto:payal.mohapatra1994@gmail.com)

Certified AWS Solution Architect – Associate



## Experience Overview:

Having **3.6 years** of experience in IT industry comprising of AWS Cloud and Windows System Administration. Extensive experience in Cloud Management, Cost Optimization, Cloud Migration with excellent communication, analytical and problem-solving skills with ability to work within a team environment and independently.

## AWS Professional Summary:

- Expertise in Server Migration and working on AWS Cloud Environment
- Expert in Amazon AWS Cloud Administration which includes services like: EC2, S3, EBS, VPC, ELB, FSx, SNS, SES, RDS, IAM, Route 53, Auto scaling, Cloud Watch, Security Groups with an overall objective to improve the scalability, reliability, performance, and availability of the cloud infrastructure.
- Effectively monitoring of AWS using environment CloudWatch, CloudTrail etc.
- Building, Commissioning & Monitoring of old & new production and non-production systems as per requirements.
- Involved in maintaining the IAM, RDS, Route 53, VPC, SES, SQS, SNS, WAF, Guard Duty etc. & troubleshooting services in AWS cloud.
- Utilize Cloud Watch to monitor resources such as EC2, CPU memory, Load Balancer Latency, EBS Volumes; to set alarms for notification or automated actions; and to monitor logs for a better understanding and operation of the system.
- Responsible for creating Dashboards, alarms and notifications for Production servers using cloud watch.
- Involved in the migration of On-premises applications to AWS cloud using AWS Application migration service.
- Maintaining backups for AWS resources, on-premises resource with the help of different AWS services, Scripts.
- Efficiently monitor & implement different billing strategies for cost optimization.
- Deployment of multi-tier architecture in AWS (2-tier,3-tier, Hybrid, high availability architecture)
- Designing & building client infrastructure on AWS environment with cost optimized solutions; developing and implementing reusable components
- Interacting with clients to gather information on requirements and managing critical client infrastructures, providing production support working on production issues and system administration support for a client with instances hosted in AWS Cloud environment.
- Setting up EC2s, Installing & Configuring them with required software
- Elastic Block Storage (EBS) and S3 buckets & enabling versioning & life cycle management policies on S3 buckets.
- Managing EC2 services like attaching volumes, configuring security groups.
- Helping to designing, documentation, implementation, and maintenance of several applications that were a part of the product suites, including the main server application.
- Creating technical design specifications, developing IT solutions to meet business requirements, installing and configuring solutions.
- Troubleshooting existing information systems to identify errors or deficiencies and developing solutions for existing errors or deficiencies in Information systems.
- Documenting functions and changes to new or modified modules, activities or results; ensuring documentation of applications according to standards.

- Launching Amazon EC2 Cloud Instances using Amazon Web Services (Linux/Ubuntu/RHEL) and configuring launched instances with respect to specific applications
- Increasing EBS backed volume storage capacity when the root volume is full using AWS EBS Volume feature.
- Created AWS Route53 to route traffic between different regions.
- Created users and group using IAM an assigned individual policy to each group.
- Created SNS notifications and assigned ARN to S3 for object loss notification.
- Good understanding of ELB. security groups, NACL. NAT, firewall and Route 53.
- Hands on experiences on security and compliances like WAF, Guard duty, Security Hub, Network ACL, Certificate Manager
- Manual left and shift migrations.
- Hands on knowledge on FSx Deployment
- Hands on Knowledge on Directory Service Deployment

### Windows Environment:

- Knowledge on Windows Server operating systems versions 2012r2,2016,2019
- Enable and disable ports from the windows defender in AWS point of view like echo request, echo reply.
- Troubleshooting knowledge on windows server operating side issue like network connectivity, file server access, user login issues
- Troubleshooting knowledge on windows Client operating side issue
- Hands-on knowledge software dependency installations
- Scheduling tasks using task manager.
- Attaching and detaching EBS values to Windows machine via disk management console
- Maintaining windows update up to date
- Scheduling auto backup scripts using task manager and taking regular backups from server to AWS S3
- Providing permissions to production server to access windows shared file server
- Providing permissions to production server to access FSx

### Technical skill set:

Cloud Technologies	: AWS (Amazon Web Services)
Operating Systems	: Windows Server, Amazon Linux, Ubuntu
Compute Services	: EC2, ELB, Autoscaling
Network & Content Delivery	: VPC, Route 53, VPN
Business Applications	: SES, Work Mail, WorkDocs, Workspaces
Cloud Security	: WAF, Inspector, Guard Duty, Security Hub, IAM
Storage Services	: S3, EBS, FSx
Database Services	: RDS
Monitoring tool	: CloudWatch, Cloud Trail
Migration tool	: Application Migration Service
Architecting tool	: Draw.io
Cost calculator	: AWS Cost Calculator, AWS Simple monthly Calculator

### Professional Experience:

Working as Process Developer in GENPACT SERVICES PRIVATE LIMITED from January 2020 to till date.

### Education Details:

Completed M-Tech in Biotechnology at Kalinga Institute of Technology in the year 2017.

## Projects:

### Project: 1 (Design & Migration & Implementation Project)

Environment : AWS, Windows, DC, AWS security, Cloud endure Migration  
Duration : April 2022- Till now

#### Responsibilities:

- Created snapshots to take backups of the volumes and images to store launch configurations of the EC2 instances.
- Manage Route 53 DNS hosted zones configuring aliases for Elastic Load Balancer applications.
- Migrating their on-premises VM's to cloud EC2 by using Cloud endure tool
- Technical point of contact to plan, debug and navigate the operational challenges of cloud computing.
- Created Cloud Formation templates and deployed AWS resources using it.
- Configured S3 to host static web content, versioning, and lifecycle policies to and backup files and archive files in Glacier.
- Optimized volumes and EC2 instances& created multi-AZ-VPC instances& Used IAM to create new accounts, roles, and groups
- Create and implement automation for cloud platforms as well as monitoring and alerting purposes
- Prepare documentation for configuration and install procedures
- Analyze cloud infrastructure and recommend improvements for performance gains and cost efficiencies
- Assist in design and deployment of Workday in the Public & private Cloud
- Cost optimization on entire Production account
- Implementation of security and compliances like WAF, Guard duty, Security Hub, Network ACL, Certificate Manager
- Enabled S3 Server logs to Another s3 bucket for monitoring purpose

### Project: 2 (Design & Migration & Implementation Project)

Environment : AWS, Windows, DC, AWS security, Cloud endure Migration  
Duration : November 2020 – March 2022

#### Responsibilities:

- Implementation and monitoring and maintain of the entire AWS production account
- Cost optimization activities on AWS accounts
- Automatic scripts for backup from On-premises servers to AWS S3 or AWS ec2 servers to AWS S3
- Configuration of the AWS cloud management, Configure and fine-tune the cloud infrastructure systems, monitoring and managing cloud services carefully.
- Improvement of resources and work on the resources which will designate costs required for planning of governance, budgeting, and reporting
- Understanding of the metrics and monitors the utilization of AWS resources on a full scale by making use of highly complex Amazon Cloud Watch
- Reducing the time required for production by using automation infrastructure which involves Cloud Formation technique
- Keeping the backup of the resources. The administrator has to do AWS on-premises resources backup often by use of AWS services
- Upgrading software, patching; managing the disaster recovery and creating the data backups
- Maintaining Data Integrity and access control by making use of the AWS application platform; effectively monitoring charging and cost optimization strategies

- Implementation and monitoring and maintain of the entire AWS production account.
- Manual left and shift migration of on-primes applications to AWS Cloud

### **Project: 3 (Design & Migration & Implementation Project)**

Environment : AWS, Windows, Cloud endure Migrations

Duration : February 2020- September 2020

#### **Responsibilities:**

- Improvement of resources and work on the resources which will designate costs required for planning of governance, budgeting, and reporting
- Managing the client account in the cost optimization and providing feedbacks where they can reduce the cost.
- Creating reports on usage of the AWS resources and providing to them monthly.
- Created snapshots to take backups of the volumes and images to store launch configurations of the EC2 instances.
- Cost optimization activities on overall production accounts.
- Manage IAM roles and console access for EC2 services.
- Technical point of contact to plan, debug and navigate the operational challenges of cloud computing.
- Prepare documentation for configuration and install procedures.
- Understanding of the metrics and monitors the utilization of AWS resources on a full scale by making use of highly complex Amazon Cloud Watch
- Reducing the time required for production by using automation infrastructure which involves Cloud Formation technique
- Configuration of the AWS cloud management; configure and fine-tune the cloud infrastructure systems; monitoring and managing cloud services carefully
- Keeping the backup of the resources. The administrator must do AWS on-premises resources backup often by use of AWS services
- Upgrading software, patching; managing the disaster recovery and creating the data backups
- Maintaining Data Integrity and access control by making use of the AWS application platform; effectively monitoring charging and cost optimization strategies
- Implementation and monitoring and maintain of the entire AWS production account  
Manual left and shift migration of on-primes applications to AWS Cloud

#### **Declaration:**

I hereby declare that the above-mentioned information is correct up to my knowledge and I bear the responsibility for the correctness of the above-mentioned.

Place: Hyderabad

(Payal Mohapatra)