RFP– Amazon Cloud Services

Introduction

The Meghalaya Basin Management Agency (MBMA) is at the forefront of implementing transformative projects with a focus on sustainable development and environmental conservation in Meghalaya. As we embrace technological advancements to enhance the efficiency and impact of our projects, MBMA recognizes the critical role of cloud computing in achieving our goals. In line with this strategic shift, we are seeking the expertise of a vendor specialized in managing cloud infrastructure on Amazon Web Services (AWS). This initiative marks a significant step in adopting cutting-edge technology to improve the implementation of projects executed with the support of funding agencies.

Purpose of the RFP

The primary purpose of this RFP is to identify a competent and experienced vendor capable of providing comprehensive AWS Managed Services to MBMA. The chosen vendor will play a pivotal role in ensuring our cloud infrastructure is robust, secure, and optimized to meet the dynamic needs of our projects. This partnership aims to leverage AWS technology to facilitate better project implementation, enhance operational efficiency, and foster innovation in our approach to managing and executing projects supported by external funding agencies.

Objective of the assignment

- Project Implementation Efficiency: Utilize AWS cloud infrastructure to streamline project execution, ensuring projects are delivered on time and within budget.
- Security and Data Protection: Implement top-tier security measures and compliance protocols to protect sensitive data and project information in the cloud.
- Operational Excellence: Achieve high operational efficiency through effective management of AWS resources, ensuring uninterrupted service and optimal performance.
- Cost Optimization: Strategically manage and optimize cloud expenditures to align with project budgets and maximize return on investment.
- Scalability and Flexibility: Ensure the AWS infrastructure can rapidly adapt to the changing requirements of diverse projects, supporting scalability and technological innovation.
- Strategic Cloud Adoption: Foster a strategic partnership with a vendor that not only excels in AWS Managed Services but also supports MBMA's vision of leveraging technology for sustainable project execution.

Scope of Work

- Review of Existing Cloud Infrastructure and Architecture
- Review of Vendors and Setup Configurations
- Security Review and Recommendations
- Development of Guidelines for Internal Teams and Vendors
- Cost Optimization Strategies
- Setup of Monitoring and Alerts
- Training and Empowerment

Deliverables

- Conduct a thorough assessment of MBMA's current AWS cloud infrastructure and architecture.
- Identify strengths, weaknesses, and opportunities for improvement in the existing setup.
- Provide recommendations for architectural enhancements to improve efficiency, scalability, and security.
- Evaluate the current setup for vendors who host their solutions within the AWS environment.
- Perform a comprehensive security audit of the AWS infrastructure, including data protection, access controls, and network configurations.
- Identify potential vulnerabilities and provide a prioritized list of recommendations to mitigate security risks.
- Advise on best practices for maintaining a secure AWS environment in compliance with relevant regulations and standards.
- Create detailed guidelines and protocols for internal teams and external vendors to ensure consistent and secure use of AWS services.
- Include procedures for onboarding new vendors, deploying resources, managing access, and conducting regular audits.
- Facilitate training sessions or workshops to ensure all stakeholders are familiar with the guidelines.
- Analyze current AWS usage and spending patterns to identify areas for cost savings.
- Implement cost optimization measures such as reserved instances, auto-scaling, and right-sizing of resources.
- Provide ongoing monitoring and reporting on cost savings and recommend adjustments as needed.
- Implement a comprehensive monitoring system for the AWS environment to track performance, usage, and operational health.
- Configure alerts for critical events, thresholds, and indicators of potential issues to ensure prompt response.
- Establish protocols for incident response and resolution, including escalation procedures and communication plans.
- Develop and implement a disaster recovery (DR) and business continuity plan tailored to MBMA's AWS infrastructure.
- Ensure minimal downtime and rapid recovery of services in the event of an outage or disaster.

Desired Qualification and Experience

- Minimum of 3 years experience for the entity.
- Minimum of 2 years experience in providing managed cloud services.
- Min 3+ AWS certified employees
- Business Type : Any
- Expertise in the following AWS services
  - Amazon EC2
  - Amazon RDS
  - Amazon ElasticCache
  - Elastic Load Balancing(ELB)
  - S3
  - CloudFront
  - EFS

- o Route 53
- o CloudWatch
- o IAM
- o Control Tower
- o Guard Rail
- Expertise in Managed Cloud Services and support.
- Expertise in Cost Optimisation.
- Expertise in Cloud Security.
- Experience with deploying and monitoring applications in LAMP and MERN stacks.
- Experience with Docker Based deployments.

Selection Process

There will be two rounds of selection, the first round will be a technical evaluation round.
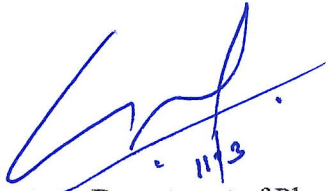
The technically qualified bidder will then be eligible for the financial evaluation.

Deployment

- The selected vendor would be paid a monthly remuneration/professional fee as may be mutually agreed.

Submission of Offer

- Offer for the RFP should include the following:
  - o Team Composition, Assignment and Key Experts' inputs
  - o A detailed resume of the team to be assigned indicating the relevant work experience with supporting documents.
  - o A write-up on vendor suitability for the assignment.
  - o Financial Proposal
- For more information about the organization please visit our website https://mbda.gov.in

Joint Secretary, Department of Planning &
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