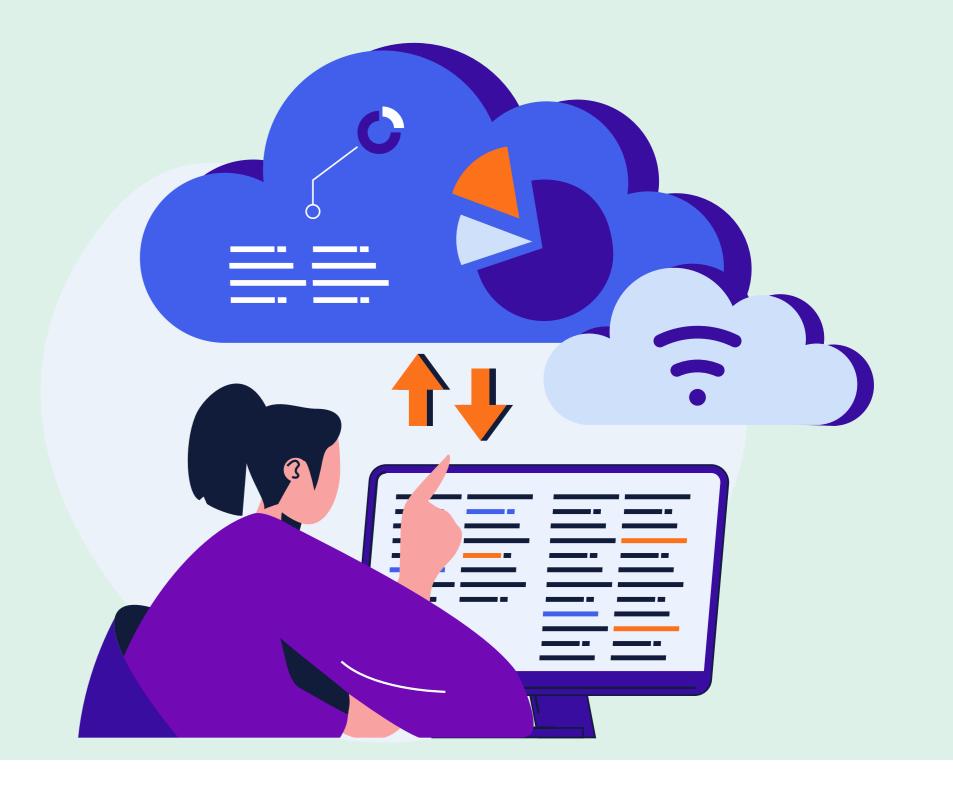


Choosing the Right Cloud Deployment for Your Microsoft SQL Server on AWS



When migrating your Microsoft SQL Server to the AWS cloud, you have two primary options: Amazon Relational Database Service (RDS) and Amazon Elastic Compute Cloud (EC2). Each approach offers distinct advantages depending on your specific needs.

Managed Service: Microsoft SQL Server on Amazon RDS



Simplicity and Efficiency: Amazon RDS simplifies deployment and management. AWS handles configuration, updates, security patching, and backups, freeing you to focus on core business activities.

Scalability: Quickly scale compute capacity to meet fluctuating demands with cost-effective, resizable options.

Cost-Effectiveness: Benefit from a pay-per-use model, paying only for the resources you utilize. Further optimize costs with reserved instances for predictable workloads.

High Availability and Performance: Easily configure read replicas and synchronous replication across availability zones for enhanced performance and disaster recovery. Secure data at rest and in transit with automatic encryption.

Limitations: RDS instances have limitations on the number of SQL Server databases (30-100) and database size (1-16 TB). You also lack direct access to the operating system.

Self-Managed Deployment: Microsoft SQL Server on Amazon EC2 with Amazon EBS

Complete Control: Enjoy full control over your SQL Server environment.
Install and configure SQL Server on EC2 instances and leverage Amazon Elastic Block Store (EBS) for secure, durable storage. Manage maintenance windows, port usage, and database instance counts.



Customization and Flexibility: Tailor your database configuration to meet specific performance, replication, and archival needs. Utilize Bring Your Own License (BYOL) with existing SQL Server licenses.

Scalability and Performance: Achieve high availability and scalability by swiftly provisioning and configuring new EC2 instances. Scale database instances or storage capacity based on traffic demands. Provision SQL Server instances in various AWS regions for low latency access for geographically distributed users. Implement Multi-Availability Zone deployments for enhanced fault tolerance.

Backup and Recovery: Create backups using the AWS Backup service for entire EC2 instances or utilize EBS snapshots for point-in-time restoration and disaster recovery purposes.

Increased Management Burden: Managing EC2 instances requires shouldering operational tasks like database configuration, patching, and backups.

Choosing the Right Option

Amazon RDS excels for those seeking a hassle-free, managed service with automatic scaling and cost-efficiency. However, database size and instance limitations might restrict its suitability for specific needs.

Amazon EC2 with EBS is ideal for organizations requiring complete control, customization, and the ability to leverage existing SQL Server licenses. Be aware of the increased administrative responsibilities associated with this approach.





Applied Cloud Computing (ACC) is an advanced AWS consulting partner. ACC accelerates end-to-end cloud adoption with the best implementation services, software and processes available.

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