



Build modern applications with cloud-native databases on AWS

Table of contents

Introduction	3
Build better products faster	4
Architecting for the future on AWS	5
The next evolution: cloud-native databases	11
Why Amazon Aurora for modern application development?	7
Accelerate your modernization journey with APN Partners	8
About [Partner Partner]	9
[Partner Name] case study: [Customer Name]	10

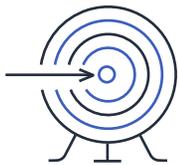
Introduction

In order to be more competitive, companies must create better products, and to do that, they must increase agility and innovate faster. Modern application development is an approach to designing, building, and managing applications that enables faster innovation and accelerates time-to-market for new features. By modernizing their applications, companies can deliver better service to customers, and keep pace in a competitive landscape. In many cases, AWS has helped companies modernize by implementing cloud-native databases. In this eBook, we discuss best practices for building modern applications and how you can get started today with Amazon Aurora on AWS.

Build better products faster

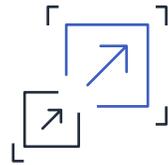
Companies of all sizes are finding new ways to leverage technology to innovate faster and better respond to customer demands. This is fueled by the need to maintain a competitive edge in a fast changing environment. Across nearly every industry segment, you can find examples of cloud-native companies disrupting industries while leaving legacy businesses in the dust.

For many companies, an important step toward building better products faster is modernizing their applications and taking advantage of AWS' cloud-native service offerings. Modernization empowers companies with:



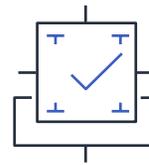
Agility

Modern application architecture enables you to quickly fix a problem or deploy new features and services your customers want.



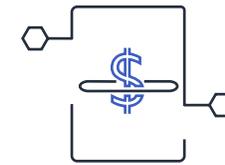
Scalability

On-demand infrastructure and pay-as-you-go pricing enable you to rapidly scale your applications to meet customer demand in a highly available and cost-efficient manner.



Availability

Serve customers' requests wherever and whenever with availability and durability across multiple data centers and global regions.



Lower Costs

Modernize your applications with fully-managed AWS infrastructure and pay-as-you-go pricing models to retire legacy infrastructure.

Architecting for the future on AWS

AWS has defined a set of best practices around modern application development that arose from our experience serving millions of customers and building applications for Amazon.com. We observed common approaches that enable our customers to increase agility, and build better applications that support the success of their business. Many organizations have found success adopting modern microservices architectures that make applications easier to scale and faster to develop, enabling innovation and accelerating time-to-market for new features.

Our customers are increasingly using modern application development building blocks, such as containers and serverless technology, to build applications as they move away from monolithic architectures in favor of a microservices architecture. However, many have yet to take advantage of AWS' managed, cloud-native database offerings that offer superior performance, integration, and lower Total Cost of Ownership (TCO) compared to self-managing a database or using commercial databases. Organizations can support their microservices architectures with cloud-native database services to accelerate development cycles, foster innovation, and improve software scalability.

The next evolution: cloud-native databases

Cloud-native means you can focus on your applications and your data, not on managing databases. Additionally, you can expect availability and durability across multiple data centers and global regions, as well as performance that exceeds commercial databases without expensive licensing costs. You will also benefit from native integration across the AWS portfolio like integrated AWS Lambda functions, native read/write to Amazon S3, and customer-friendly features like Amazon Aurora Serverless, when you build modern applications on AWS' managed, cloud-native database offerings.

Why Amazon Aurora for modern application development?

To address a new and rapidly-evolving set of customer requirements, you must architect your applications for the future. Amazon Aurora is a MySQL and PostgreSQL-compatible relational database built for the cloud, that provides the security, availability, and reliability of commercial databases at 1/10th the cost. Amazon Aurora is the right cloud-native database foundation for building modern applications, for several reasons:



Superior performance

Amazon Aurora outperforms self-managed and commercial databases. Amazon Aurora provides fast, hyperscale, cloud-native databases to store terabytes and petabytes of data, provide access to data with millisecond latency, process millions of requests per second, and scale to support millions of users anywhere in the world.



Lower TCO

Save money by building modern applications on Amazon Aurora open source database engines instead of commercial databases with expensive licensing fees. Significantly reduce TCO with Amazon Aurora's operational automation and free up resources to focus on your business instead of managing databases.



Built for Cloud

Amazon Aurora combines the performance and availability of commercial databases with the simplicity and cost-effectiveness of open source databases. Features like Global Databases and Aurora Serverless, plus AWS Lambda and Amazon S3 integration, let you build better and faster, always with pay-as-you-go pricing.



Fully Managed

With fully-managed resource provisioning, maintenance, and backups, you no longer have to worry about operational database management and can focus on driving greater business value for you and your customers.

Accelerate your modernization journey with APN Partners

Leverage AWS' on-demand infrastructure and broad set of cloud services to develop new functionality in response to customer feedback, and stay competitive by building modern applications with the help of APN Partners. APN Partners can support development of your AWS architecture to align with your business goals, AWS best practices, and modern architectural frameworks such as microservices. Our APN Partners can help you implement the right cloud-native database foundation for your application so you can realize the full benefits of modern application development.

About Jelecoss



Jelecoss is an AWS Advanced Consulting Partner focused on digital transformation, DevOps, compliance-driven migration, and cloud-first application development.

Jelecoss has 19 years of experience as industry-leading specialists in application development. Whether we're developing a cloud-native application for AWS, or modernizing existing applications, you can be sure that our team is the best choice for your business needs.



Copyright © 2019, Amazon Web Services, Inc. or its affiliates.
All rights reserved.