AWS re:Invent

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DAT318-R2

Best practices to migrate your database to Amazon DocumentDB

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Agenda

- What is Amazon DocumentDB?
- DocumentDB use cases
- Migration best practices

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What is Amazon DocumentDB?

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Amazon DocumentDB

SCALABLE, HIGHLY DURABLE, AND FULLY MANAGED DATABASE SERVICE FOR OPERATING MISSION-CRITICAL MONGODB WORKLOADS



Scalable

- Autoscaling storage and IO
- Scale compute in minutes without downtime
- Storage scales to 64 TB
- Scale out to 15 replicas for millions of reads
- Globally distributed



Fully managed

- Built-in high availability
- Backups enabled by default
- Durable by default
- Security best practices by default
- Automatic patching
- Monitoring and alerting



MongoDB compatible

- Applications, drivers, and tools can be used with little or no change
- Supports hundreds of APIs, operators, and stages
- Continually working backward from customers to deliver the capabilities they need

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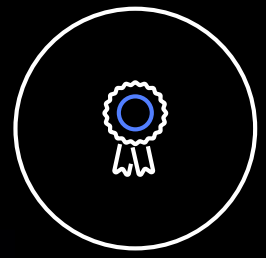
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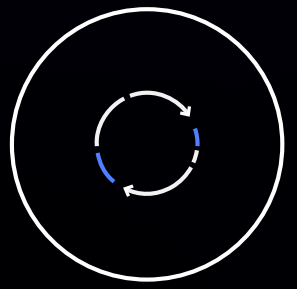
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When should you use a document database?



JSON data



Flexible schema for fast iteration



Ad-hoc query capabilities



Flexible indexing



Operational and analytics workloads

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A few highlights from the past year



AWS Graviton instances with up to 30% better performance

Cross-Region Replication (Global Clusters)

Role-based access control (user-defined roles)

JDBC driver for SQL interface and analytics

Geospatial query capabilities and additional MongoDB APIs

And so much more!

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DFL

ODX

Zulily

woot!

monkey

SAMSUNG

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HABBY

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Easy Online Groceries

DOW JONES

ENKIDOO ai

Iron

sportradar

Rappi

amazon


Plume

smartsheet

朝日新聞

zipwhip

The
Washington
Post

FINRA

CapitalOne

freshworks

BBC

digital

sandstone
TECHNOLOGY

punchh

Homage

knotion
knowledge in action

Case study: Rappi

"We had to make changes to transition to Amazon DocumentDB, but after we did, we found that with a lot less code, we could accomplish the same tasks with a lot more stability."

Marcelo Soto
Head of Data Platform
Rappi

- Dropped number of outages from frequent to zero
- Migrated over 100 live MongoDB databases to DocumentDB in 3 months
- Decreased latency from up to 500 ms to 80 ms on average for the restaurants ranking query
- Decreased management/operational overhead by more than 50%
- Achieved greater stability with less code

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Case study: Plume

"On one of our clouds, users are making like 50,000 API calls a minute, and Amazon DocumentDB is not really blinking an eye."

Robert Miller
Software Development Lead for Public APIs
Plume

- Greatly reduced the need for in-house database management
- Saved the cost of three to five approximately $150,000 Silicon Valley salaries
- Decreased latency
- Scaled up to handle as many as 50,000 API calls per minute
- Decreased time and effort needed for security

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Whiteboarding: Migration best practices

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Related sessions

DAT301

Amazon DocumentDB deep dive

DAT320

Scale globally in minutes with Amazon DocumentDB

DAT215

Deploy your application with Amazon DocumentDB

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Thank you!

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