

# AWS re:Invent

NOV. 28 – DEC. 2, 2022 | LAS VEGAS, NV

DAT002

# Amazon DocumentDB Elastic Clusters: Virtually any throughput and data size

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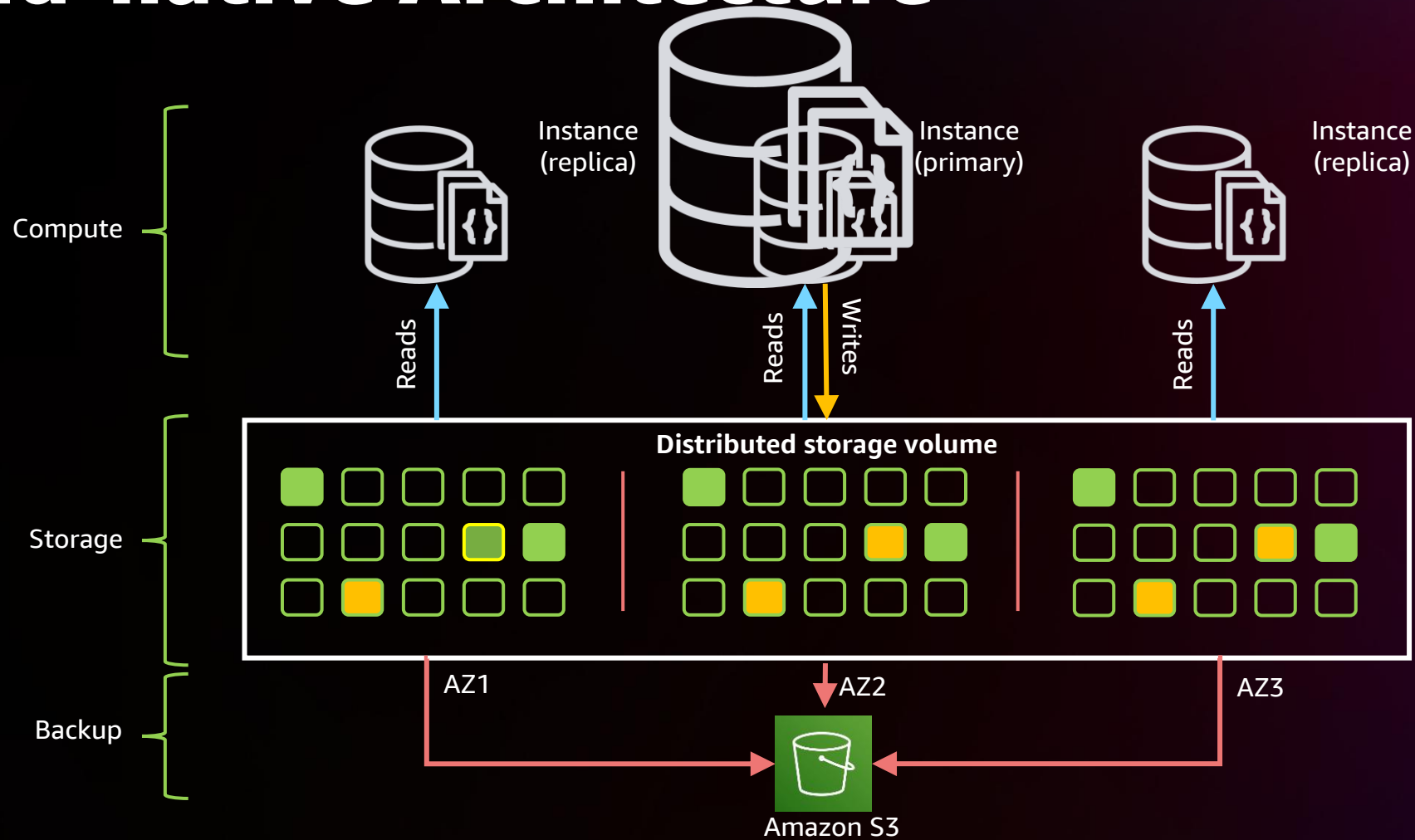
# Agenda

Quick Overview

Scaling DocumentDB Clusters

Elastic Clusters: Beyond the limits

# Amazon DocumentDB Cloud-native Architecture



# Demo: Scaling your Instance-based Cluster



# Amazon DocumentDB Elastic Clusters



# Elastic Clusters

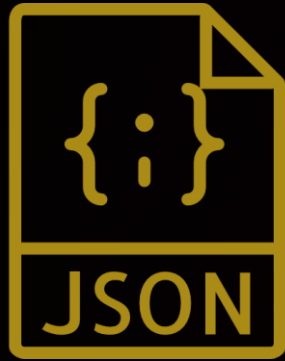
Why Elastic Clusters

Elastic Cluster Capabilities

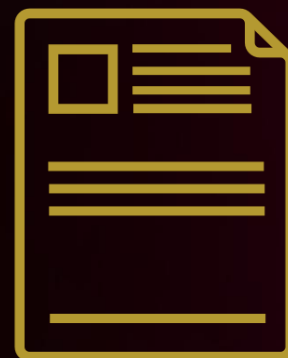
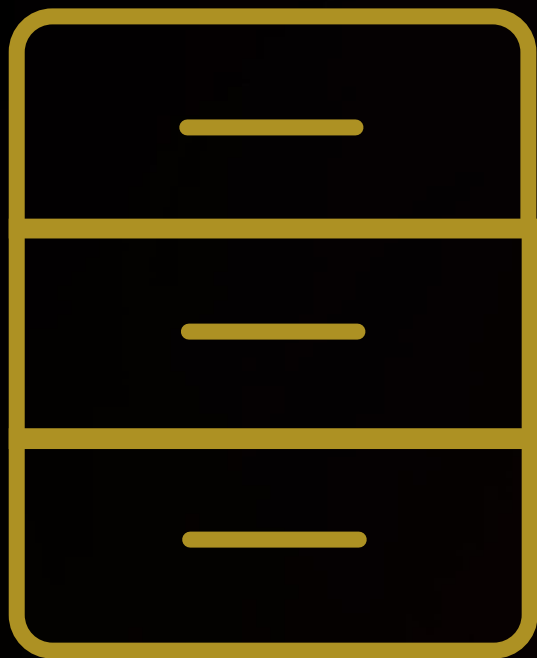
Architecture

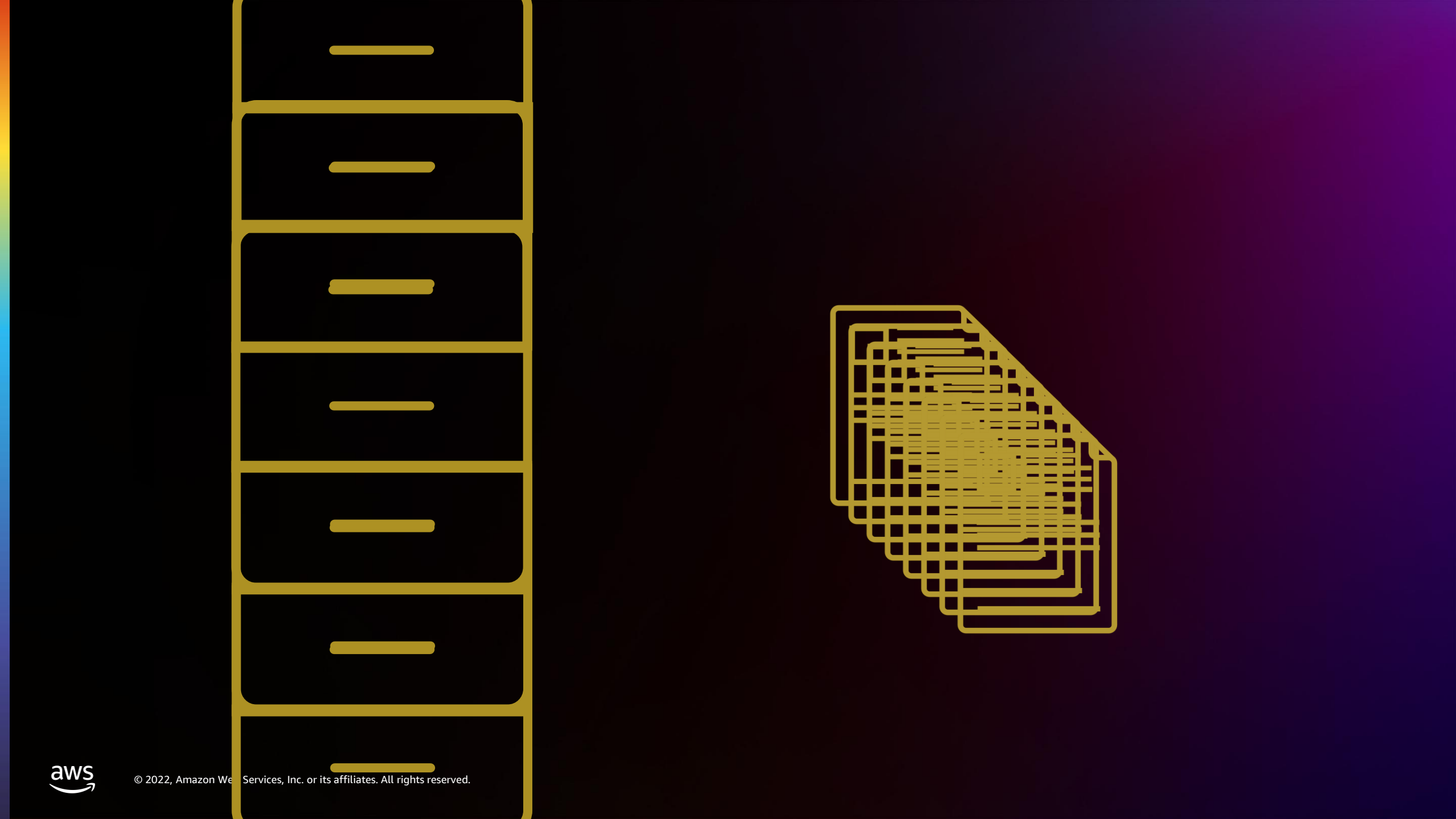
Demo

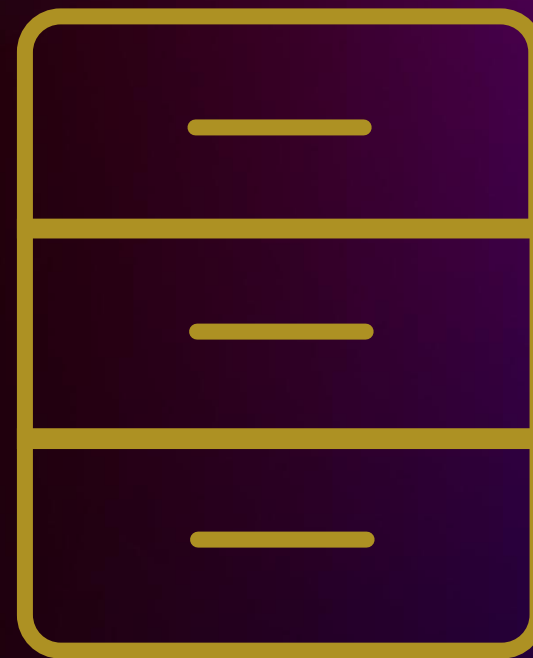
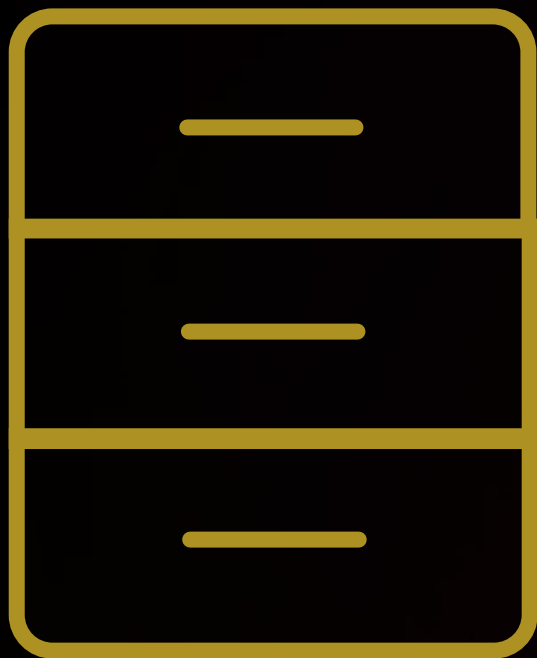














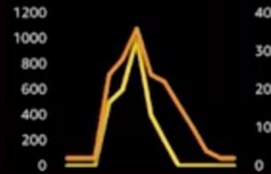
# Amazon DocumentDB Elastic Clusters NEW!



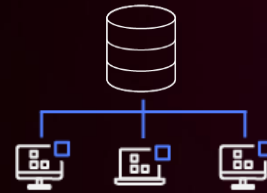
New type of cluster (Elastic cluster) for Amazon DocumentDB that supports workloads with **millions of reads/writes per second and petabytes of storage capacity**. Elastic clusters also simplify how developers interact with DocumentDB. No need to **choose, manage, or upgrade instances!**



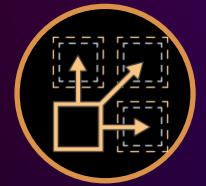
Compatible with  
MongoDB APIs for  
sharding



Millions of reads and  
writes



Up to 300,000  
Connections



Easy and Fast Scaling

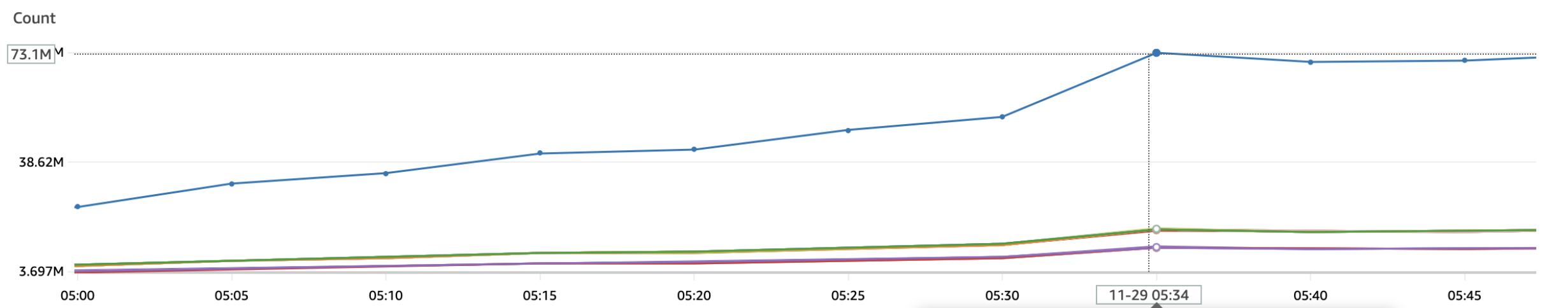
Elastic-Cluster-Stretch-5

1h3h12h1d3d1wCustom

1m

Actions

DocumentsInserted



17:3521:3501:3505:3517:35

DocumentsInserted

b018bab7-0aac-49a5-ae8c-826e6686e084

3bea1f33-8a82-44f8-96e6-e2bd62a4b210

f00ece03-b162-4db5-910b-e9dbb72108cf

3497507f-eec2-4d37-910e-bca874a41d31

32b6b8ee-2424-4634-943a84601-98d1-4238-987f-798ee24a1f3e

879f7a7a-de06-4146-b918-060abeb9581f

fd59b44b-f96a-4506-804c1e56cc-0959-4acf-a9fe-895e07f25304

f44e9721-1e17-4ba3-bc66-5db0e138ec36

eed8ee3-beaa-4c78-9e66cde833d-89b1-40e7-bda7-b60c65e00171

902b4ec3-0c16-438f-9271-151a0609589d

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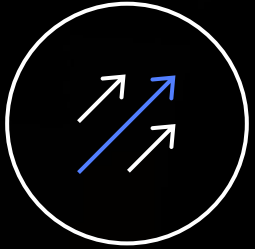
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9f7ed6ec-5dd8-427a-97f6078a9d-b8ba-4a6a-8605-715275cf7e23

ResourceCount

# Amazon DocumentDB Elastic Clusters

FAST, SCALABLE, AND FULLY MANAGED MONGODB-COMPATIBLE DATABASE SERVICE THAT PROVIDES VIRTUALLY LIMITLESS SCALE



## Fast and scalable

- Scales easily to millions of reads/writes per second and PBs of storage capacity
- Scaling operations complete in as little as minutes
- IO autoscaling
- Most queries complete in milliseconds



## Fully managed

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



## MongoDB API compatible

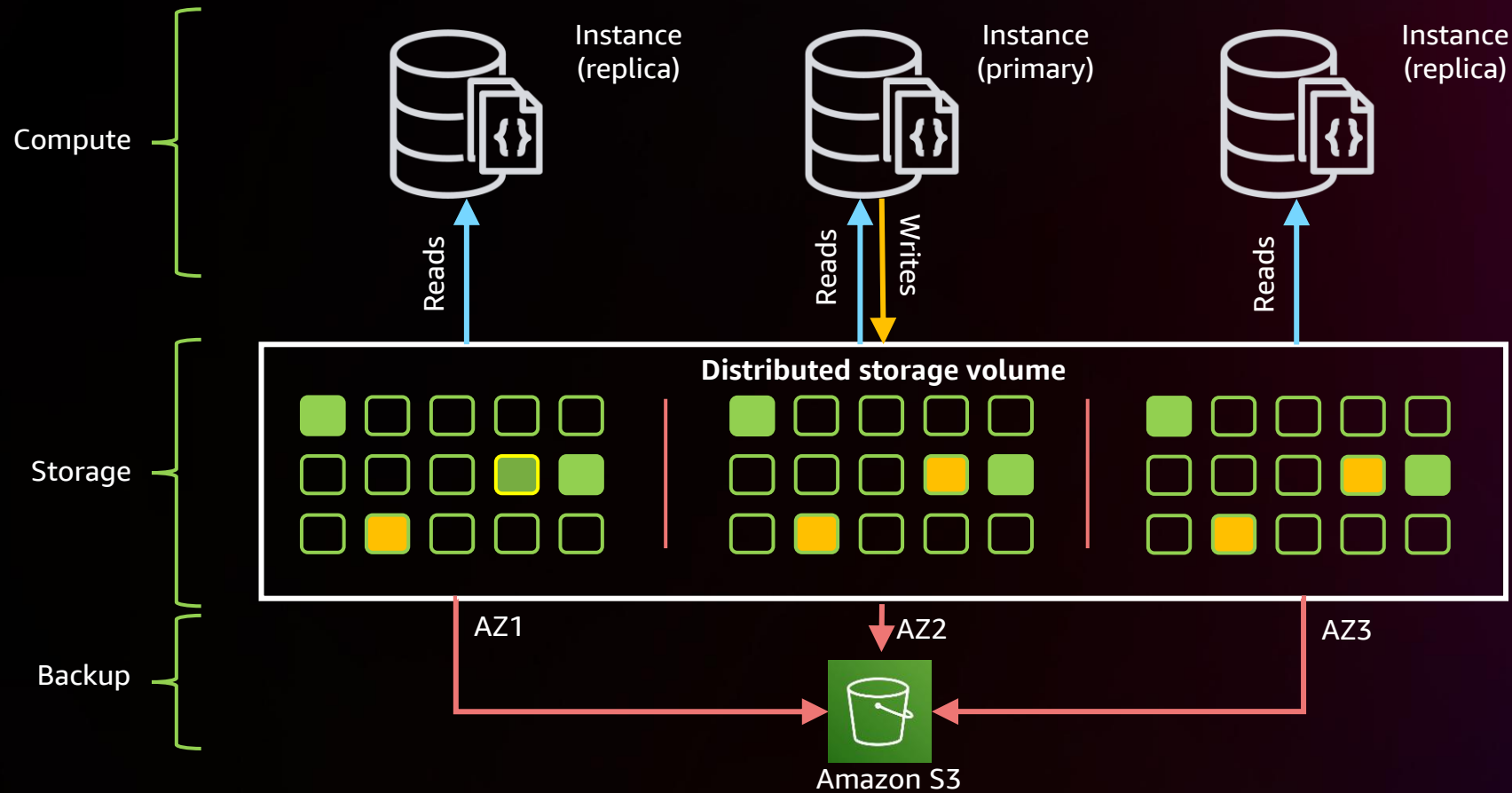
- Applications, drivers, and tools can be used with little or no change
- Supports hundreds of APIs, operators, and stages
- Continually working backward from customers to deliver the capabilities they need

# How it works

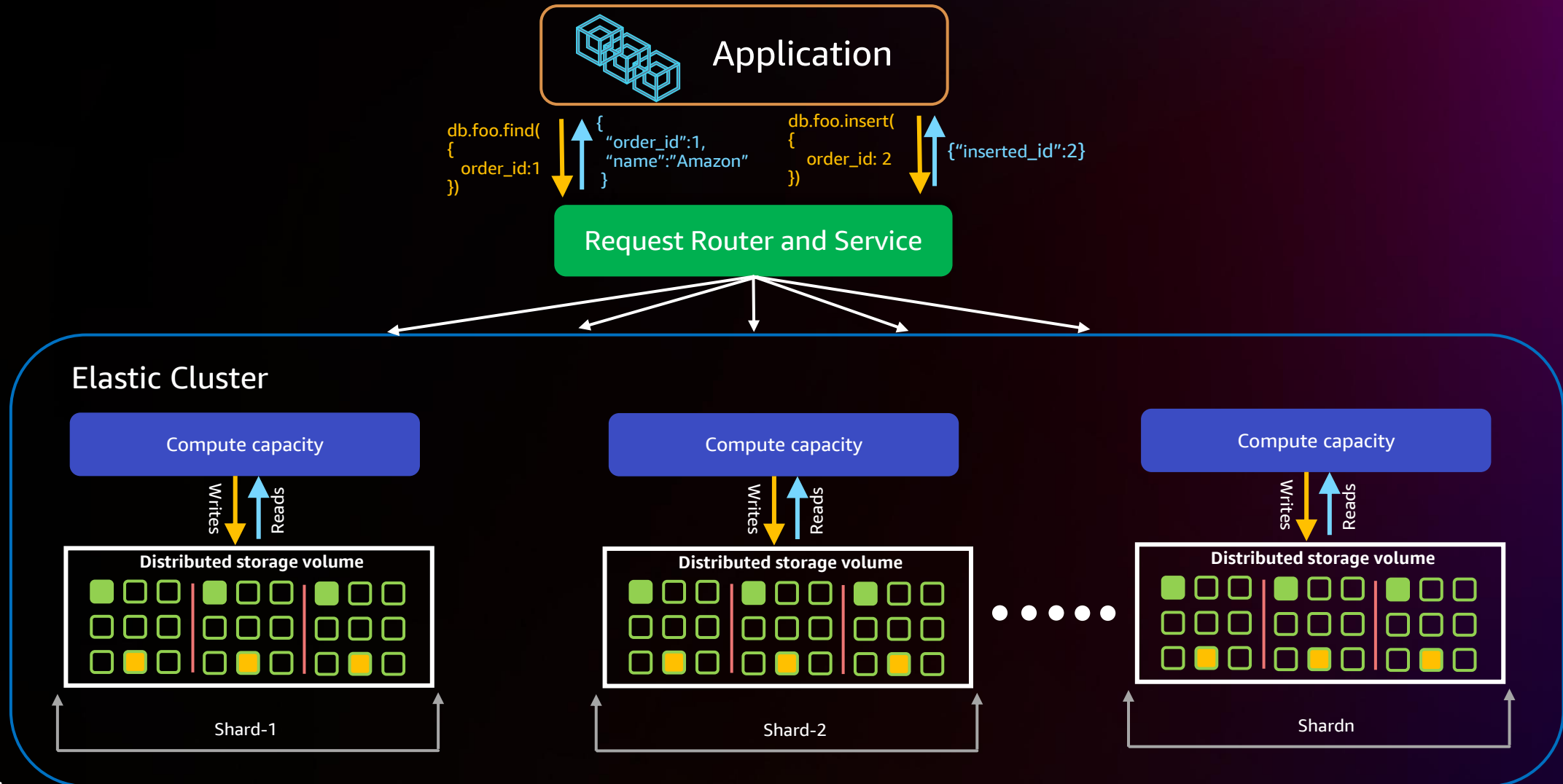




# Amazon DocumentDB Cloud-native Architecture

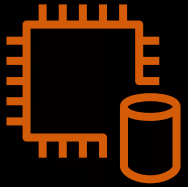


# Elastic Cluster Architecture



# How is it priced?

No upfront costs and only pay for what you use  
with easy-to-understand predictable pricing



**Compute – vCPUs per Hour**



**Storage – GB per Month**



**Backups – GB per Month**

# Thank you!



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