



# mongoDB

## 来自官方的产品更新

## ABOUT ME

唐建法 / TJ

MongoDB 高级方案架构师

MongoDB 中文社区联合发起人

## AGENDA

About MongoDB Inc.

MongoDB Atlas

MongoDB Stitch

MongoDB 3.6 快速预览

# About MongoDB, Inc.



**700+**  
employees



**25+** offices  
worldwide

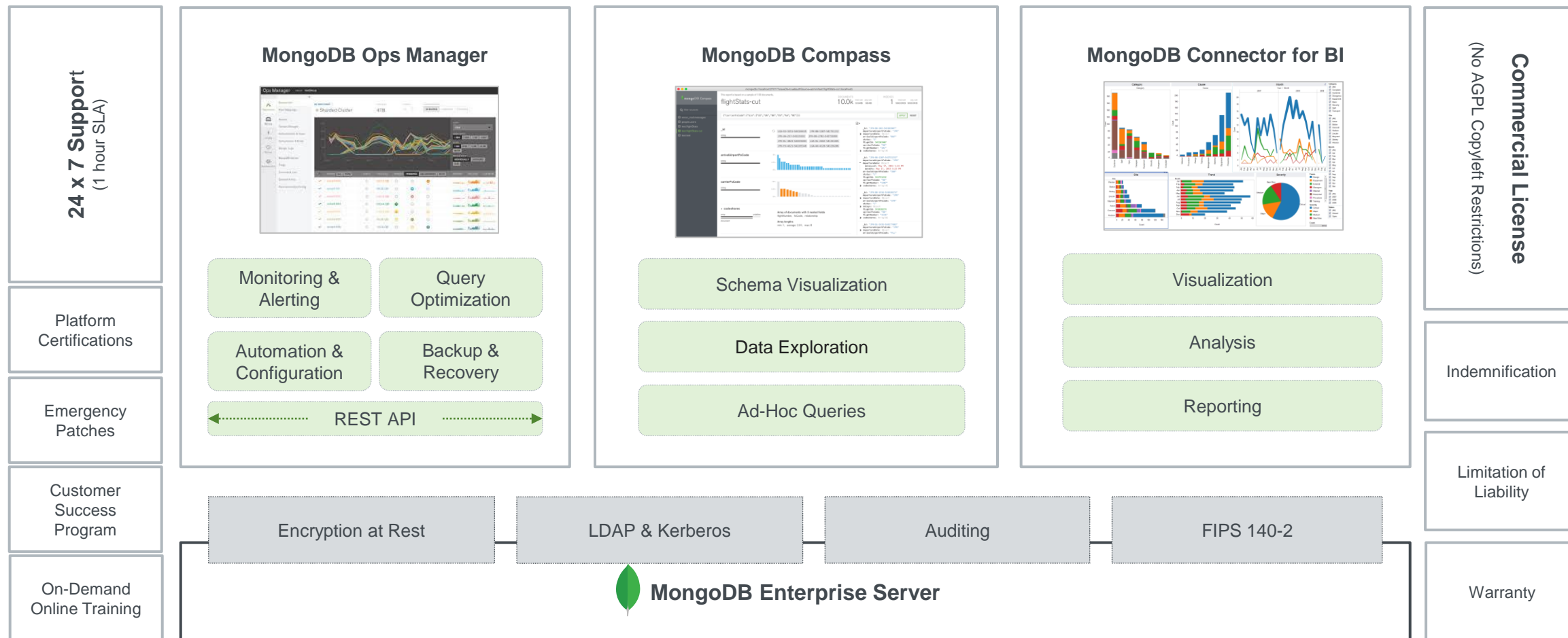


**3,000+**  
customers



**\$300M+** in  
funding

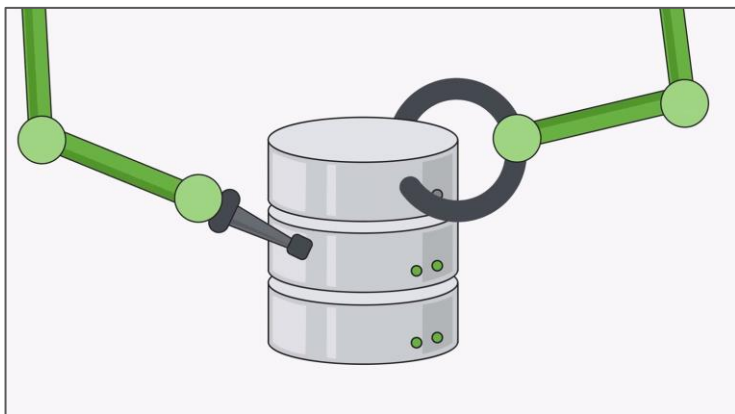
# MongoDB 高级企业版



# MongoDB Atlas



# 来自于官方的MongoDB 云托管服务



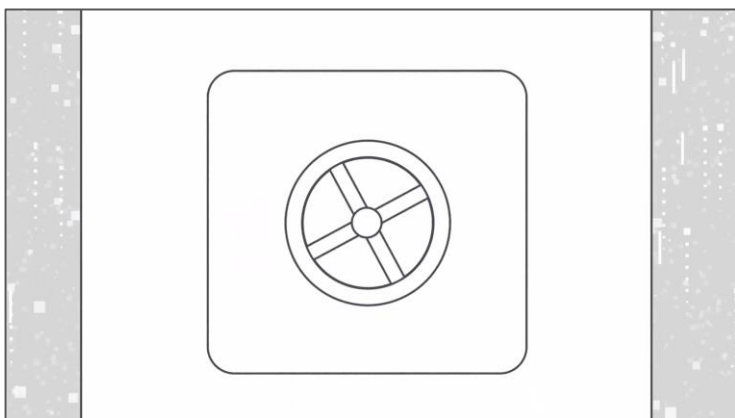
自动部署



按需扩容



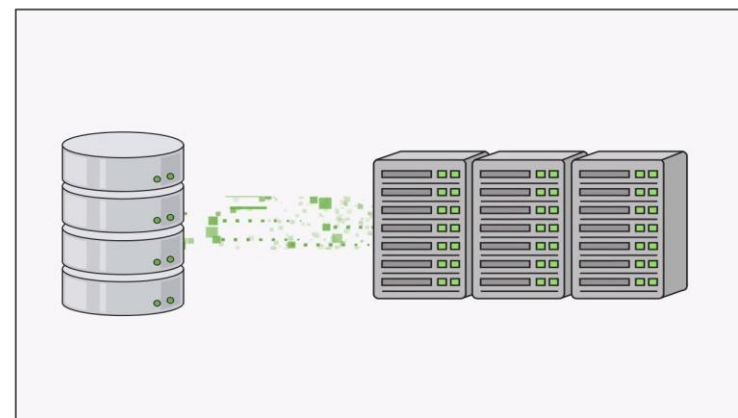
平滑扩容



安全



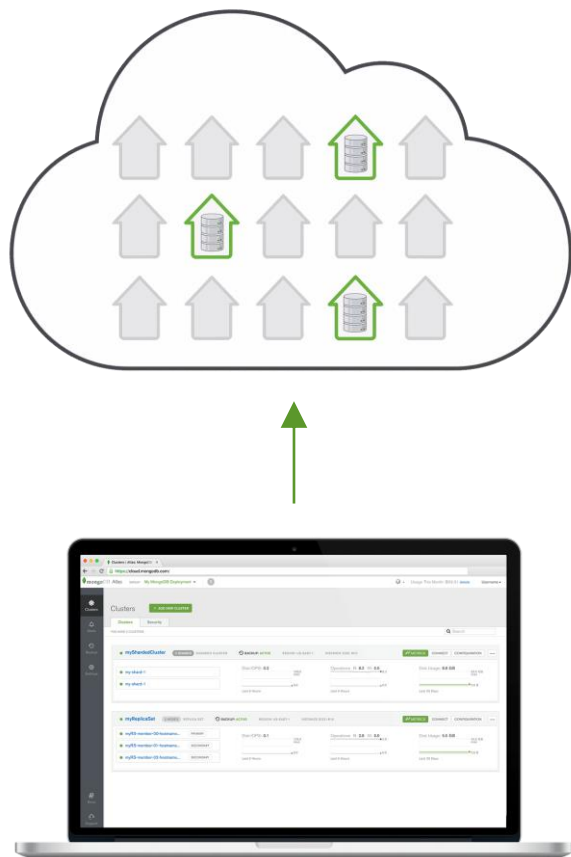
高可用



自动备份

# MongoDB Atlas 的优点

Database as a service for MongoDB



## 帮你管理

- 几分钟开始一个新集群
- 数据自动备份
- 平滑扩容
- 轻松升级

## 安全

- TLS/SSL
- 鉴权
- 详细的监控和告警规则

## No Lock-In

- 支持常见的云服务商如AWS, Azure, GCP
- 最新版本最新功能支持

# AWS

## Under the hood

- MongoDB Atlas is currently available as a hosted solution in 14 AWS regions:
- us-east-1 (N. Virginia)
- us-east-2 (Ohio)
- us-west-2 (Oregon)
- us-west-1 (N. California)
- ca-central-1 (Canada)
- sa-east-1 (São Paulo)
- eu-west-1 (Dublin)
- eu-west-2 (London)
- eu-central-1 (Frankfurt)
- ap-southeast-1 (Singapore)
- ap-southeast-2 (Sydney)
- ap-northeast-1 (Tokyo)
- ap-northeast-2 (Seoul)
- ap-south-1 (Mumbai)





# 微软 Azure

- Central US (Iowa)
- East US (Virginia)
- East US 2 (Virginia)
- North Central US (Illinois)
- South Central US (Texas)
- West US (California)
- North Europe (Ireland)
- West Europe (Netherlands)



# GCP

## Under the hood

- MongoDB Atlas is currently available in 4 GCP regions:
- us-east1 (South Carolina)
- us-central1 (Iowa)
- europe-west1 (Belgium)
- asia-east1 (Taiwan)



# 默认3节点

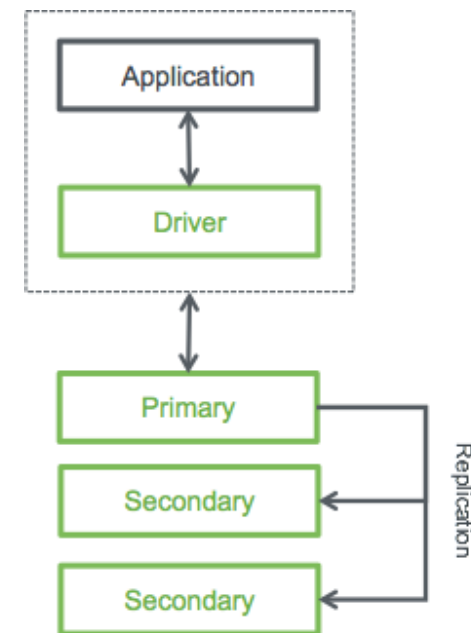
## Under the hood

- A minimum of three data nodes per replica set/shard are automatically deployed across availability zones for high availability
- If your primary node does go down for any reason, the self healing recovery process in MongoDB Atlas will typically occur in under 2 seconds



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# 免费Sandbox



<https://cloud.mongodb.com>

## Choose A Region

us-west-1 (N. California)

M0

Shared RAM

512 MB storage

M10

2 GB RAM

10 GB storage

M20

4 GB RAM

20 GB storage

M30

8 GB RAM

40 GB storage

M40

16 GB RAM

80 GB storage

Cost Estimate:

**\$0/hr**

Per 3 Node Replica Set

Sign up for MongoDB Atlas for more configuration options.

Get Started

[Learn more about pricing.](#)

# Introducing Stitch



# mongoDB Stitch

Native SDKs (iOS, Android, JS)

Rest-like API



Pipelines

3<sup>rd</sup> Party Services

Integrated Rules

MongoDB Query Language + Native Drivers

 mongoDB Atlas

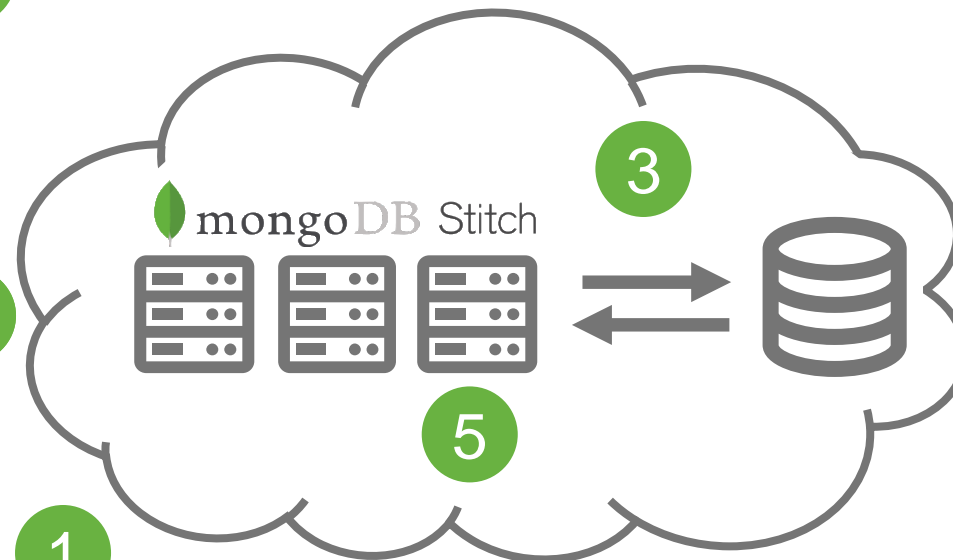


3

一个典型的客户端请求:

1. 发起服务端请求
2. Stitch 解析请求并检查写规则
3. Stitch 调用相关数据库或第三方服务
4. Stitch 组合返回结果, 并检查读规则
5. 客户端接收数据

2



1



```
const mongodb = client.service('mongodb', 'mongodb-atlas');  
const twilio = client.service('twilio', 'twilioService');
```

```
client.executePipeline([  
  
  mongodb.db('people').collection('users').find({ city: 'Chicago' })),  
  
  twilio  
    .send('%%vars.toPhone', '+12018675309', 'Looks like rain today!')  
    .let({ toPhone: '%%item.phone' })  
  
]);
```

# Stitch Concepts

MongoDB

Services

Pipelines

Expansions

Rules



# STITCH 应用场景

- 在已有应用上增加功能
- 数据权限控制
- 整合第三方服务
- 作为完整的应用后台



# MongoDB 3.6

## 3.6 新功能

功能	描述
MongoDB Charts	原生数据报表可视化工具，类似 Kibana
Change Stream	太有用了 - Pub/Sub, Trigger
Expressive \$lookup	谁说Mongo不能做关联？
Retryable Writes	数据写入更可靠
Array Update	同时更新数组内多个元素 单值数组更新
Strict schema validation	可以禁止增加新字段



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# Thank You