

A decorative graphic on the left side of the slide consisting of two overlapping parallelograms. The front one is blue and the back one is a light green color. They are positioned diagonally, with the blue one partially covering the green one.

MongoDB Change Streams

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Change Streams

- Applications can use change streams to subscribe to all data changes on
 - a single collection,
 - a database, or
 - an entire deployment, and
 - immediately react to them



Change Streams

- Because change streams use the aggregation framework, applications can also filter for specific changes or transform the notifications at will.



Change Streams

- New in version 3.6



Availability

Change Streams are available for Replica Sets and Sharded Clusters



Storage Engine

- The replica sets and sharded clusters must use the WiredTiger storage engine.
- Change streams can also be used on deployments that employ MongoDB's encryption-at-rest feature.



Replica Set Protocol Version

- The replica sets and sharded clusters must use replica set protocol version 1 (pv1)



Read Concern “majority” Enablement

- Starting in MongoDB 4.2, change streams are available regardless of the "majority" read concern support;
- That is, read concern majority support can be either enabled (default) or disabled to use change streams.
- In MongoDB 4.0 and earlier, change streams are available only if "majority" read concern support is enabled (default).



Watch Collection

Target	Description
A Collection	You can open a change stream cursor for a single collection (except system collections, or any collections in the admin , local , and config databases).



Watch Database

Target	Description
A Database	Starting in MongoDB 4.0, you can open a change stream cursor for a single database (excluding admin , local , and config database) to watch for changes to all its non-system collections.



Watch Deployment

Target	Description
A Deployment	Starting in MongoDB 4.0, you can open a change stream cursor for a deployment (either a replica set or a sharded cluster) to watch for changes to all non-system collections across all databases except for admin , local , and config .