

기년 0년 1년 SK 구기호1/1+ C&C

Tables

1. MongoDB?

2. MongoDB 2.x to 3.x

3. Mongodb 3.2 & Tips

1 am...

72011程(SK 子气到1+ c&c)

cloud computing

Infra Service Team 1

Mongodb korea

R Korea



Table 1. Mongodb...?

NoSal Generation





















one of them or not?



what is Mongodb?

· Document oriented Database

· Replication / Sharding

• Multiple Transaction(cRUD) / Map-Reduce

• Latest Stable version is 3.0.7 (October, 2015)

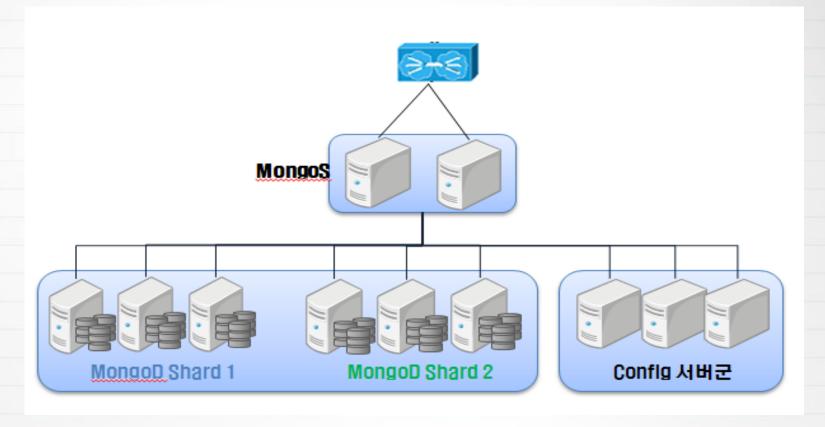
what is Mongodb?

· Document?

```
var mydoc = {
               _id: ObjectId("5099803df3f4948bd2f98391"),
               name: { first: "Alan", last: "Turing" },
               birth: new Date('Jun 23, 1912'),
               death: new Date('Jun 07, 1954'),
               contribs: [ "Turing machine", "Turing test", "Turingery" ],
               views: NumberLong(1250000)
                                                                   field1: value1,
                                                                   field2: value2,
                                                                    field3: value3,
                                                                    fieldN: valueN
```

what is Mongodb?

Replication / Sharding



MongoDBoll TH社 心气量

• MongoDB のトマリ 差のとなけていのないとと? (1. x release)

• MongoDB Locking 是刊上...? (2. x release)

· MongoDB 装货 作到 :...? (3. x release)

where are they ...?

DB-Engines Ranking

The DB-Engines Ranking ranks database management systems according to their popularity. The ranking is updated monthly.

Read more about the method of calculating the scores.

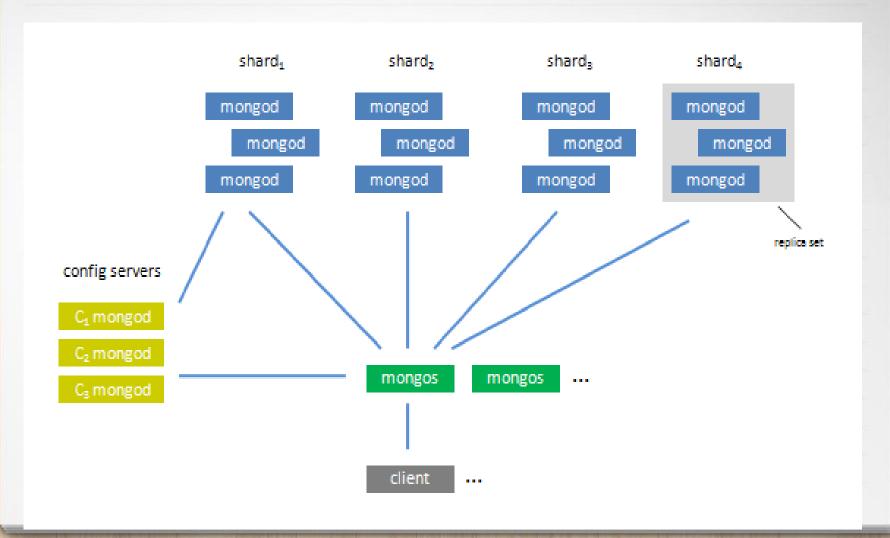


trend chart

283 systems in ranking, October 2015

	Rank				Score		
Oct 2015		Oct 2014	DBMS	Database Model	Oct 2015	Sep 2015	Oct 2014
1.	1.	1.	Oracle	Relational DBMS	1466.95	+3.58	-4.95
2.	2.	2.	MySQL	Relational DBMS	1278.96	+1.21	+15.99
3.	3.	3.	Microsoft SOL Server	Relational DBMS	1123.23	+25.40	-96.37
4.	4.	↑ 5.	MongoDB 🗄	Document store	293.27	-7.30	+52.86
5.	5.	4 .	PostgreSQL	Relational DBMS	282.13	-4.05	+24.41
6.	6.	6.	DB2	Relational DBMS	206.81	-2.33	-0.86
7.	7.	7.	Microsoft Access	Relational DBMS	141.83	-4.17	+0.19
8.	8.	1 0.	Cassandra 🕒	Wide column store	129.01	+1.41	+43.30
9.	9.	4 8.	SQLite	Relational DBMS	102.67	-4.99	+7.71
10.	10.	1 2.	Redis 🗄	Key-value store	98.80	-1.86	+19.42

MongoDB 72 址址 review -1



MongoDB 72 址址 review - 2

- mongod
 - 데이터를 거장, 관리 (복제 정책 각용 가능)
- mongos
 - client의 足材 性叶 社間 经对 化出의 partitioning 정學 社工计 行程社 데이터 化出至 足材量 互科码
- config Server
 - shardingon समर्ट रेट्न र्युत्र नाम
 - partitioning에 대한 정별 관기

71073至 7!

- mongod
 - 四月至 对称
- mongos
 - clienter mongod नाम गर सम्हा न्यें
- config Server
 - 1211타 건보 관괴

MongoDB 32 4 17371



Mongodb 132 TH KRI EtMIE!

- · 고기부이 Oracleolst 내고社 대(RDBMS2+는 EHKHOI 다음)
- 무원가는 이야기 듣고 고객이 들이댈 때
- यारायान्य निग्न श्रेट्ट प्स
- · License에 TH社 이해가 불합한 73年

Mongodo 132 TH MME!

- भन्धेरो देनिश ब्रिटेंड प्र
- · log data, SNS data 등 검재 및 활동
- the fit open sourcest of tall (ex. Hadoop, R, Spark)
- गमर् देगार श्रीमार prototype के प्रयुद्ध सार्था स्म
- 고기부이 open source에 라比 이 하기 축발을 대

Table 2. Mongodb 2.x to 3.x

Features I. Locking Level

Locking Level

• 2.6 - DB level locking

• 3.0 default - collection level locking

· 3.0 wired tiger engine - document level locking

· Locking issue 해결된 MongoDB의 오랜 숙원이 해결된

Features 2. Engine

Wired Tiger Engine

- 3.0 年时 (4) 五分
- mongodb งานึง ซาลิ งานัก กานัก กานัก กานัก กานัก เพาะd Tiger")
- 대를 설정시에는 MMAPVI 인진 사방
- WiredTigert 64bit & mongodb 3.0 of THIRT 11/57+5

Features 3. Performance

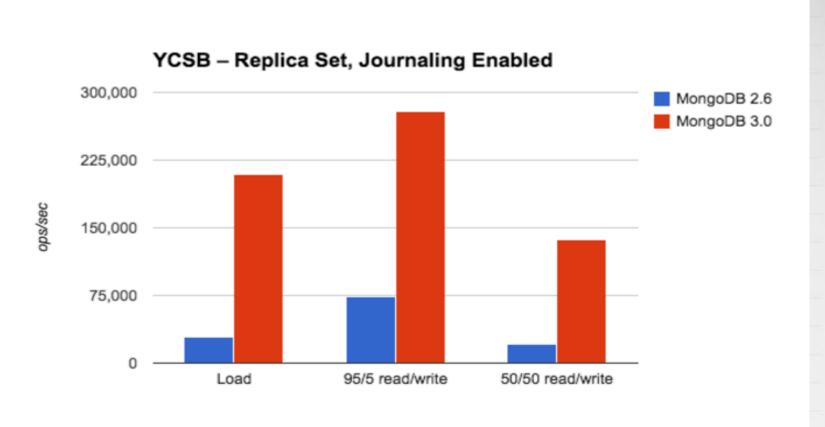
Performance(1)

2.6 << 3.0 MMAP < 3.0 WiredTiger

· 付告 ないない release upgrade의 かれた を記む

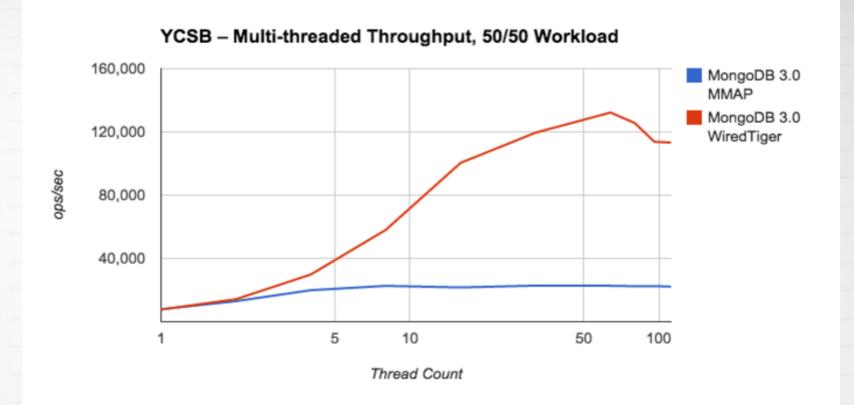
· datant मार्थिने शिक्ष निर्माट छाई मार्थ

Performance(2)



https://www.mongodb.com/blog/post/performance-testingmongodb-30-part-1-throughput-improvements-measured-ycsb

Performance(3)



https://www.mongodb.com/blog/post/performance-testing-mongodb-30-part-1-throughput-improvements-measured-ycsb

Features 4. Monitoring

Monitoring

• ~2.4 : mongostat 등의 내부 放弃 주圣 이 방

: 기내설자 1건의 위주의 tool 관계 (robomongo 등)

· 2.6 : third party tool 의 堤和 1

: Enterprise ver. Holl Zahit MMS Sat

· 3.0~ : third party tool 의 收视 2

: cloud Managers 575

Monitoring

- · cloud Manager를 쏜다던 체기계적인 관리가 가능하지만,
- · 坚 MongoDB 互引机组织 笼 标识结号 生间的 吃吧。
- 71/27-101 third party tool or 44/27-101 245-136 스크립트 구청군이 하고 17-101 선택

· Releasert 们时间是 製料 Enterprise 出程 "也也" 라 "见以时间" 文件授화 품목으로 가지를 확률이 岩운

Features 5. Best Practice

Best Practice (1)

• ~ 2.2 release : log, sns data

(11314) りまれてからか)

• 2.4, 2.6

: meta, key data

(1/3/1/1) 1/2727 1-6/1)

· 3.0 ~

: finance, trading

(1131付) (12727ト告付)

Best Practice (2)

- ~ 2.6 release
 - : 建富智性计建设 715 生生 4111个时 计处型处
 - : 机量에 대社 化阻力 灾难地
 - : । । मा मार्रे reference check १ रेप्टें भिरा ।।।।

- 3.0 ~
 - : 李思的 整整 reference 对 对如 取物 现代 对对

Table 4. Mongodb 3.2 & Tips

what's new in 3.2

· Data at rest encryption

· Document validation

· Dynamic lookups in the aggregation framework

Default Engine changing (MMAPVI → WiredTiger)

Tips 1. cPu는 무조건 64bit~!

四児31는 Maximum 子は~!

Tips 2. Mongodbel released white लाई राटहां भारत सराग हिरहे. deprecated घ रार्न्ड्र राष्ट्र 性好差午以27 主社付品和区 埃付 计号

Tips 3. ひらまとりはりき 足いもりまえりはまれた。
ないままいいでき 足いもりまります。

Tips 4. auto sharding에 의견하기 보다는 Hash key를 미리 잘 설정할 것 Tips 5. Mongodb, ol和它

modellingon 1/17 Kat.

Tips 6. 노트/물로 스토리지 연지를 다하라게
지생활 수 있다. 이는 노트를 방로/물로
구발라다 사방라게나, BMT, POC오다
같은 사항에서 유방하다.

Tips 7. 제설생으로 이라 성능이 문제되는데,
제설의 write 가격을 넓게자.

(-- journalcommitInterval)

7たイトるよいてト!

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http://revolutionist-inbum.tistory.com/