

PREPARING YOUR TOOLS FOR THE HUNT

- MongoDB issue tracking (JIRA)
- How to file a bug
- How to test MongoDB
- The hunting grounds what's new in 3.4
- ► The 3.4 schedule

MONGODB ISSUE TRACKING (JIRA)

- All MongoDB work is tracked through JIRA
- https://jira.mongodb.org
- SERVER, TOOLS, DOCS and DRIVERS projects are public
- Need an account to create tickets and comment

THE SERVER PROJECT

- Used to track all server, shell, and mongos development
- Open a ticket in this project if you find a bug
- This project is not for questions
- Use the mongodb-user group instead
- https://groups.google.com/group/mongodb-user

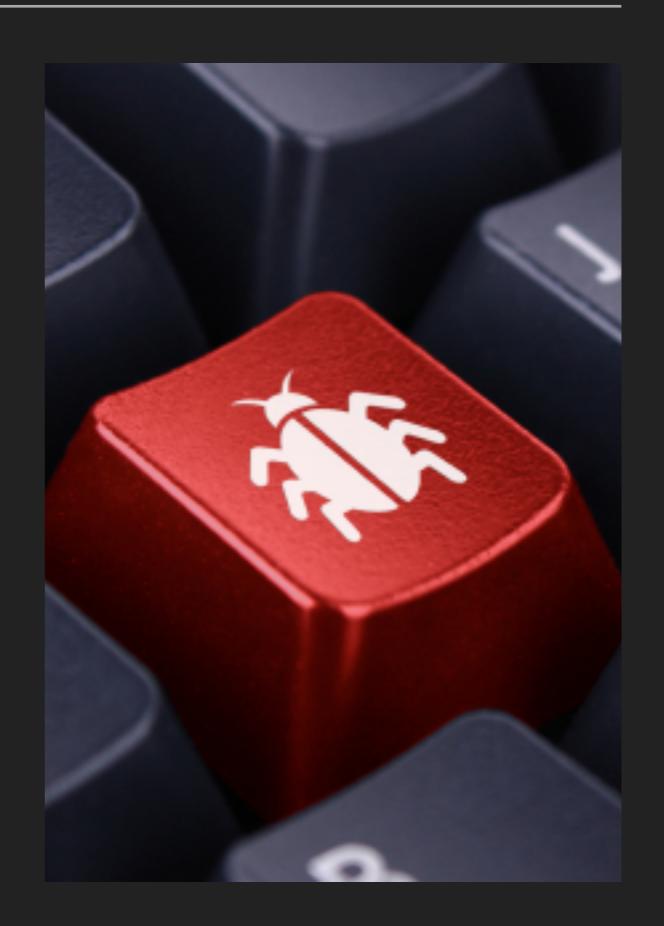
USING JQL TO NAVIGATE JIRA

USE JQL TO FIND ISSUES FASTER:

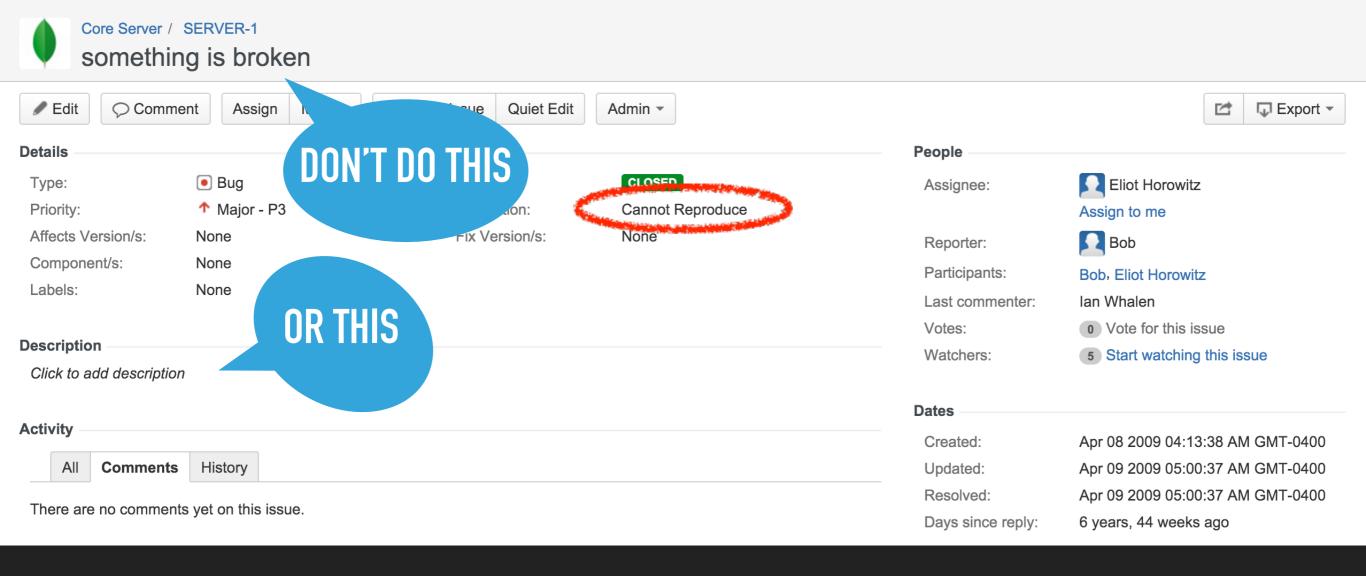
- _project = SERVER and resolution is empty and summary~ "collation"_
- _project = DOCS and fixVersion = "mongodb-3.4" and resolution is empty_
- _project = SERVER and affectsVersion >= 3.4.0-rc0 and resolution is empty_

HOW TO FILE A BUG

I'VE FOUND A BUG, WHAT DO I DO NOW?



PREPARING YOUR TOOLS FOR THE HUNT



TRY TO ANSWER THESE QUESTIONS

WHAT

Slow queries, unexpected query results, etc.

WHERE

Primary, secondary, client application

WHEN

Specific times of the day, all the time, after an event

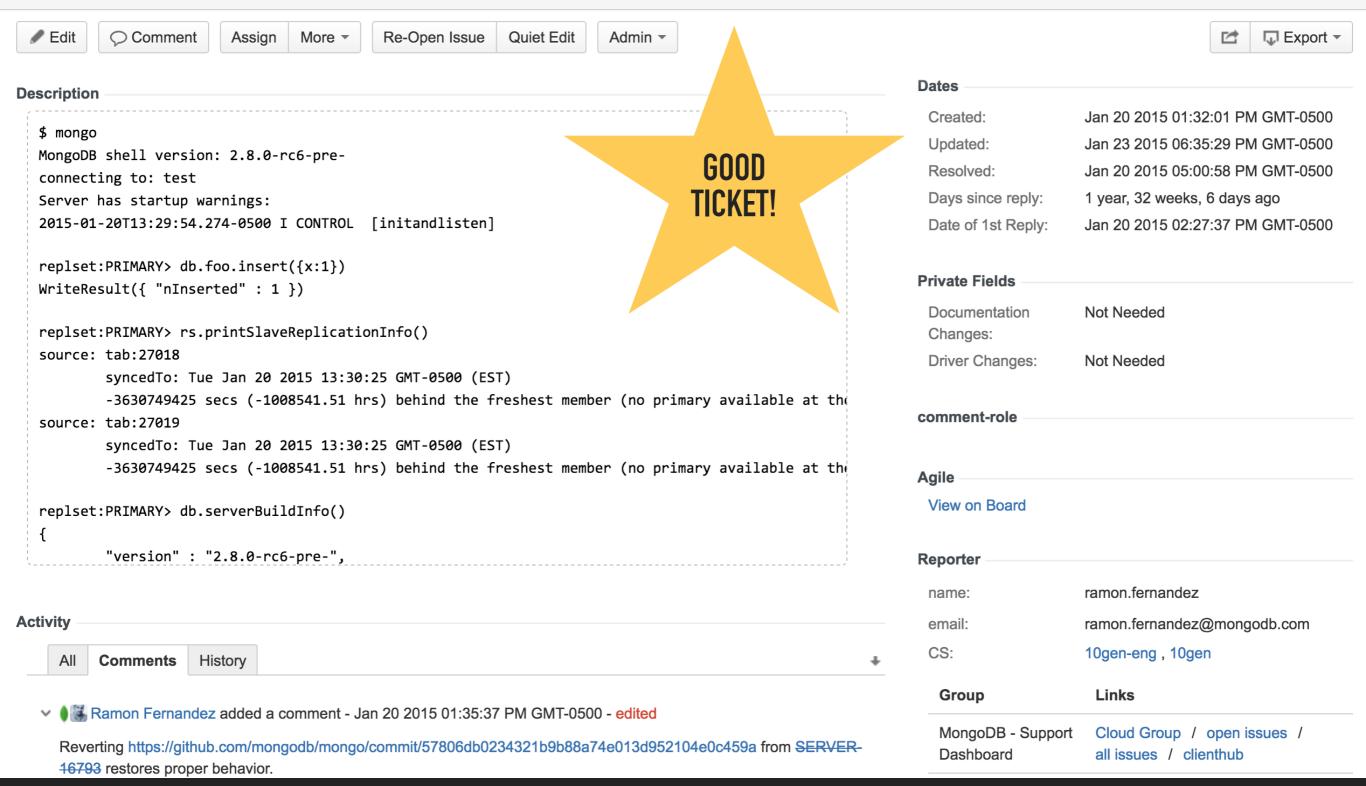
HOW MUCH

What's the impact and/or observable behavior



Core Server / SERVER-16948

printSlaveReplicationInfo() appears broken in master



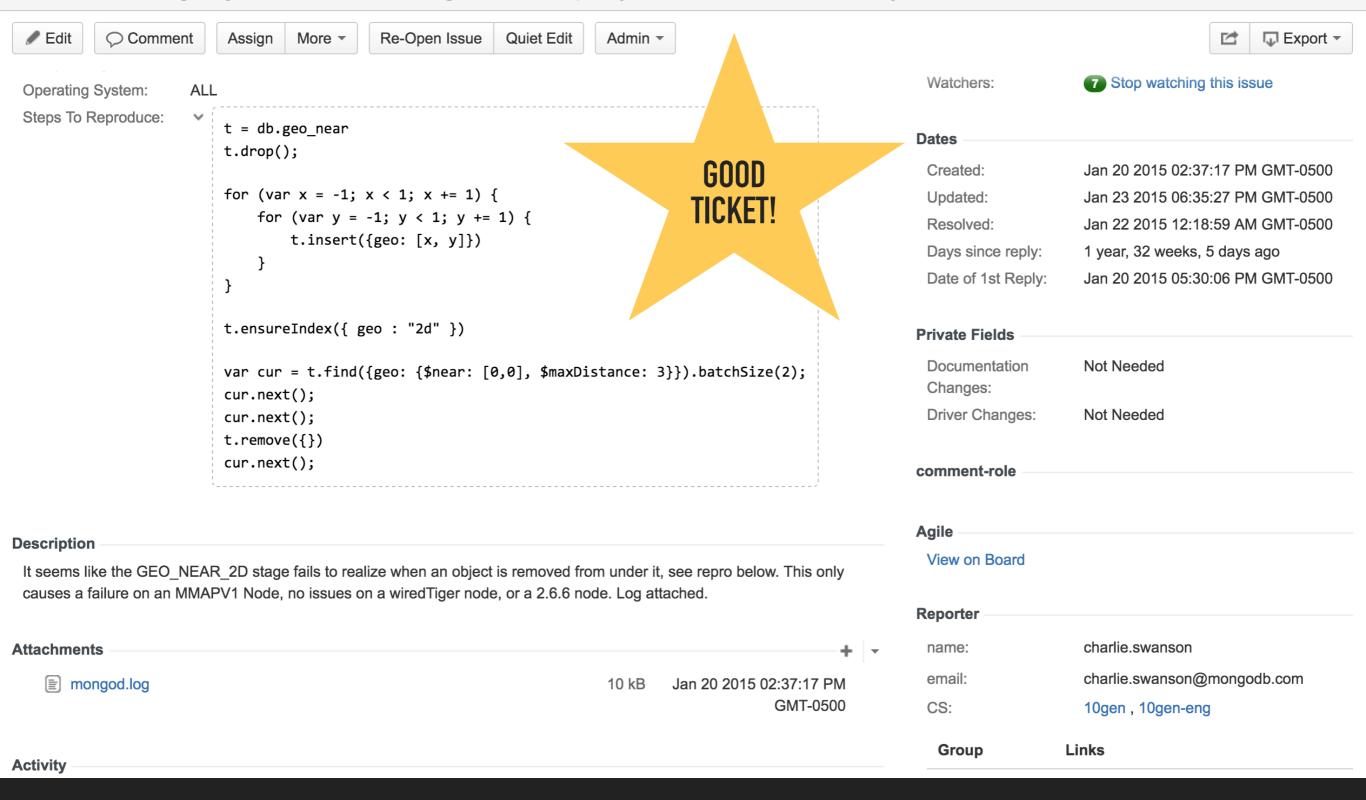
WHAT TO INCLUDE

- A session transcript
- A shell reproducer in JavaScript is best
- A reproducer in other language helps too
- Logs for all affected nodes
- Contents of the diagnostic.data directory
- MongoDB server/driver/platform versions



Core Server / SERVER-16954

Removing objects from under a geo \$near query causes invalid memory access





IS THIS A BUG?

MONGODB IS FULL OF SURPRISES!

- A certain behavior may be expected
- Ask in the mongodb-user group
- Same guidelines about asking good questions apply
- A bug in the documentation is still a bug
- File a detailed report in the DOCS project

GET READY FOR THE HUNT

- Download the server
- www.mongodb.com/downloadcenter
- Use 3.3.13, or the latest 3.4.0-rcN
- Write your tests in a file
- Use the shell
- mongo < mytest.js</p>



MORE ADVANCED TESTING

- Use an existing dataset
- https://www.citibikenyc.com/system-data
- Use mtools for more advanced setups
- Replica sets
- Sharded clusters
- https://github.com/rueckstiess/mtools
- See the jstests for black-belt testing
- github.com/mongodb/mongo/tree/master/jstests

MONGODB 3.4



TONS OF FOUNDATIONAL WORK

- Shard zones support
- Faster auto-balancing
- Intra-cluster compression
- Robust initial sync
- New architecture support

LOTS OF USER-FACING FEATURES

- Read-only views
- Graph lookup
- Collation support
- Decimal support
- Aggregation improvements
- Faceted search

THE 3.4 SCHEDULE

- MongoDB 3.4 is scheduled for publication before the end of the year
- We'll be releasing "Release Candidates" until then
 - e.g.: 3.4.0-rc3
- All bugs submitted between now and the 3.4.0 release are eligible to win the Bug Hunt
- Amazing prizes await our fearless Bug Hunters!

SUMMARY

- The SERVER project tracks bugs and feature requests
- SERVER, TOOLS, DOCS, DRIVERS
- Help us help you: ask good questions
- Easiest way to test is through the shell
- Start with user-facing features

THE PRIZES

FIRST PRIZE

- \$1,500 Amazon Gift Card
- Complimentary admission to MongoDB World or MongoDB Europe
- 2 Professional Certification exam vouchers
- Recognition on our blog and in social media

HONORABLE MENTIONS

- \$500 Amazon Gift Card
- Complimentary admission to MongoDB World or MongoDB Europe
- ▶ 1 Professional Certification exam voucher
- Recognition on our blog and in social media

QUESTIONS?



RESOURCES

- github.com/ramonfm/MU G201609
- mongodb.com/downloadcenter
- docs.mongodb.com/manu al/release-notes/3.3-devseries/