

**git\_comments:****git\_commits:**

1. **summary:** HBASE-19840 Flakey TestMetaWithReplicas; ADDENDUM to fix Checksytle  
**message:** HBASE-19840 Flakey TestMetaWithReplicas; ADDENDUM to fix Checksytle  
**label:** test

**github\_issues:****github\_issues\_comments:****github\_pulls:****github\_pulls\_comments:****github\_pulls\_reviews:****jira\_issues:**

1. **summary:** Flakey TestMetaWithReplicas  
**description:** Failing about 15% of the time.. In testShutdownHandling.. [<https://builds.apache.org/view/H-L/view/HBase/job/HBase-Find-Flaky-Tests-branch2.0/lastSuccessfulBuild/artifact/dashboard.html>] Adding some debug. Its hard to follow what is going on in this test.

**jira\_issues\_comments:**

1. Pushed the .001 debug patch to master and branch-2.
2. FAILURE: Integrated in Jenkins build HBase-Trunk\_matrix #4450 (See [[https://builds.apache.org/job/HBase-Trunk\\_matrix/4450/](https://builds.apache.org/job/HBase-Trunk_matrix/4450/)]) HBASE-19840 Flakey TestMetaWithReplicas (stack: rev d49357f2652ef730a3dcdbd40a8b0eb7e2174626a) \* (edit) hbase-server/src/test/java/org/apache/hadoop/hbase/client/TestMetaWithReplicas.java
3. **body:** The meta replicas all end up on the one server which is then killed in the test (no check for all metas on one server) so there is no place to go get region location. This happens randomly. I checked the last few fails up here [<https://builds.apache.org/view/H-L/view/HBase/job/HBase-Find-Flaky-Tests-branch2.0/lastSuccessfulBuild/artifact/dashboard.html>] The balancer is disabled in the setup. It has some notion of replicas but I think the way meta replicas are assigned, it frustrates balancer being able to distribute out the replicas. Trying having balancer enabled on startup and added assert if all metas are on same server so we fail fast.... only, then I ran into this.... in shutdown: Thread 753 (M:0;localhost:62884): State: TIMED\_WAITING Blocked count: 115 Waited count: 1351 Stack:  
java.lang.Thread.sleep(Native Method)  
org.apache.hadoop.hbase.master.procedure.ProcedureSyncWait.waitFor(ProcedureSyncWait.java:181)  
org.apache.hadoop.hbase.master.procedure.ProcedureSyncWait.waitFor(ProcedureSyncWait.java:168)  
org.apache.hadoop.hbase.master.procedure.ProcedureSyncWait.waitForProcedureToComplete(ProcedureSyncWait.java:142)  
org.apache.hadoop.hbase.master.procedure.ProcedureSyncWait.waitForProcedureToCompleteIOE(ProcedureSyncWait.java:130)  
org.apache.hadoop.hbase.master.procedure.ProcedureSyncWait.submitAndWaitProcedure(ProcedureSyncWait.java:122)  
org.apache.hadoop.hbase.master.assignment.AssignmentManager.assignMeta(AssignmentManager.java:470)  
org.apache.hadoop.hbase.master.MasterMetaBootstrap.assignMeta(MasterMetaBootstrap.java:133)  
org.apache.hadoop.hbase.master.MasterMetaBootstrap.assignMetaReplicas(MasterMetaBootstrap.java:82)  
org.apache.hadoop.hbase.master.HMaster.finishActiveMasterInitialization(HMaster.java:948)  
org.apache.hadoop.hbase.master.HMaster.startActiveMasterManager(HMaster.java:2026)  
org.apache.hadoop.hbase.master.HMaster.run(HMaster.java:557) ... same as HBASE-19791 Let me do the trick over in commit 86f4df5f74fc402b560f741e4dcd46ccaffab391 Author: zhangduo <zhangduo@apache.org> Date: Mon Jan 22 15:03:24 2018 +0800 HBASE-19836 Fix TestZooKeeper.testLogSplittingAfterMasterRecoveryDueToZKExpiry ... until address the above.  
**label:** test
4. Hmm. Above trick does not work here. Test completes but hangs in shutdown because backup master is coming up. Let me dig...
5. **body:** I removed the patch I committed that added debug, 2.001. .001 should fix this flakey. It does make an interesting change though. Lets see if any repercussions; i.e. on shutdown, we stop the procedure executor. Fix two issues: # Meta Replicas can all be assigned to the same server. This will call the test to hang when we do our kill of the server hosting meta because there'll be no replicas to read from as test intends. Check is to look for this condition on startup and adjust if we come across it. Replicas cross-cut assignment. They need work. # Other issue was shutdown. The master started toward the end of the test may not have come up fully by the time shutdown is called. We could be stuck assigning the meta replicas. Have shutdown shutdown the procedure executor engine. There is other cleanup and notes in the below. M HMaster Remove the silly stops in startup now we have real means of shutting down Master during init. M hbase-server/src/main/java/org/apache/hadoop/hbase/master/MasterMetaBootstrap.java This replica stuff was doing stuff it shouldn't be doing like setting core Master state flags. It may have made sense once but now meta is assigned by a Pv2 Procedure so the flag setting in here is meddlesome. Clear out methods no longer needed. M hbase-server/src/main/java/org/apache/hadoop/hbase/master/assignment/AssignmentManager.java Remove unused methods. Changes

local variable names so they align w/ our naming elsewhere in code base. M hbase-server/src/test/java/org/apache/hadoop/hbase/client/TestMetaWithReplicas.java Check for all replicas on the one server.

**label:** code-design

6. (x) \*{color:red}-1 overall{color}\* | \ \ \ \ Vote || Subsystem || Runtime || Comment || {color:blue}0{color} | {color:blue} reexec {color} | {color:blue} 0m 8s{color} | {color:blue} Docker mode activated. {color} | \ \ \ \ {color:brown} Prechecks {color} | \ {color:blue}0{color} | {color:blue} findbugs {color} | {color:blue} 0m 0s{color} | {color:blue} Findbugs executables are not available. {color} | \ {color:green}+1{color} | {color:green} hbaseanti {color} | {color:green} 0m 0s{color} | {color:green} Patch does not have any anti-patterns. {color} | \ {color:green}+1{color} | {color:green} @author {color} | {color:green} 0m 0s{color} | {color:green} The patch does not contain any @author tags. {color} | \ {color:green}+1{color} | {color:green} test4tests {color} | {color:green} 0m 0s{color} | {color:green} The patch appears to include 2 new or modified test files. {color} | \ \ \ \ {color:brown} master Compile Tests {color} | \ {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 22s{color} | {color:blue} Maven dependency ordering for branch {color} | \ {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 4m 18s{color} | {color:green} master passed {color} | \ {color:green}+1{color} | {color:green} compile {color} | {color:green} 0m 59s{color} | {color:green} master passed {color} | \ {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 1m 30s{color} | {color:green} master passed {color} | \ {color:green}+1{color} | {color:green} shadedjars {color} | {color:green} 6m 9s{color} | {color:green} branch has no errors when building our shaded downstream artifacts. {color} | \ {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 44s{color} | {color:green} master passed {color} | \ \ \ \ {color:brown} Patch Compile Tests {color} | \ {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 13s{color} | {color:blue} Maven dependency ordering for patch {color} | \ {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 4m 21s{color} | {color:green} the patch passed {color} | \ {color:green}+1{color} | {color:green} compile {color} | {color:green} 1m 0s{color} | {color:green} the patch passed {color} | \ {color:green}+1{color} | {color:green} javac {color} | {color:green} 1m 0s{color} | {color:green} the patch passed {color} | \ {color:red}-1{color} | {color:red} checkstyle {color} | {color:red} 1m 9s{color} | {color:red} hbase-server: The patch generated 5 new + 244 unchanged - 12 fixed = 249 total (was 256) {color} | \ {color:green}+1{color} | {color:green} whitespace {color} | {color:green} 0m 0s{color} | {color:green} The patch has no whitespace issues. {color} | \ {color:green}+1{color} | {color:green} shadedjars {color} | {color:green} 4m 37s{color} | {color:green} patch has no errors when building our shaded downstream artifacts. {color} | \ {color:green}+1{color} | {color:green} hadoopcheck {color} | {color:green} 18m 7s{color} | {color:green} Patch does not cause any errors with Hadoop 2.6.5 2.7.4 or 3.0.0. {color} | \ {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 44s{color} | {color:green} the patch passed {color} | \ \ \ \ {color:brown} Other Tests {color} | \ {color:green}+1{color} | {color:green} unit {color} | {color:green} 2m 14s{color} | {color:green} hbase-common in the patch passed. {color} | \ {color:red}-1{color} | {color:red} unit {color} | {color:red} 107m 7s{color} | {color:red} hbase-server in the patch failed. {color} | \ {color:green}+1{color} | {color:green} asflicense {color} | {color:green} 0m 38s{color} | {color:green} The patch does not generate ASF License warnings. {color} | \ {color:black}{color} | {color:black} {color} | {color:black} 148m 58s{color} | {color:black} {color} | \ \ \ \ Subsystem || Report/Notes || Docker | Client=17.05.0-ce Server=17.05.0-ce Image=yetus/hbase:eee3b01 | JIRA Issue | HBASE-19840 | JIRA Patch URL | <https://issues.apache.org/jira/secure/attachment/12907631/HBASE-19840.master.001.patch> | Optional Tests | asflicense javac javadoc unit findbugs shadedjars hadoopcheck hbaseanti checkstyle compile | uname | Linux 373add6e51fc 3.13.0-139-generic #188-Ubuntu SMP Tue Jan 9 14:43:09 UTC 2018 x86\_64 GNU/Linux | Build tool | maven | Personality | /home/jenkins/jenkins-slave/workspace/PreCommit-HBASE-Build/component/dev-support/hbase-personality.sh | git revision | master / ce50830a0a | maven | version: Apache Maven 3.5.2 (138edd61fd100ec658bfa2d307c43b76940a5d7d; 2017-10-18T07:58:13Z) | Default Java | 1.8.0\_151 | checkstyle | <https://builds.apache.org/job/PreCommit-HBASE-Build/11196/artifact/patchprocess/diff-checkstyle-hbase-server.txt> | unit | <https://builds.apache.org/job/PreCommit-HBASE-Build/11196/artifact/patchprocess/patch-unit-hbase-server.txt> | Test Results | <https://builds.apache.org/job/PreCommit-HBASE-Build/11196/testReport/> | modules | C: hbase-common hbase-server U: . | Console output | <https://builds.apache.org/job/PreCommit-HBASE-Build/11196/console> | Powered by | Apache Yetus 0.6.0 http://yetus.apache.org | This message was automatically generated.
7. Retry
8. (x) \*{color:red}-1 overall{color}\* | \ \ \ \ Vote || Subsystem || Runtime || Comment || {color:blue}0{color} | {color:blue} reexec {color} | {color:blue} 0m 14s{color} | {color:blue} Docker mode activated. {color} | \ \ \ \ {color:brown} Prechecks {color} | \ {color:blue}0{color} | {color:blue} findbugs {color} | {color:blue} 0m 0s{color} | {color:blue} Findbugs executables are not available. {color} | \ {color:green}+1{color} | {color:green} hbaseanti {color} | {color:green} 0m 0s{color} | {color:green} Patch does not have any anti-patterns. {color} | \ {color:green}+1{color} | {color:green} @author {color} | {color:green} 0m 0s{color} | {color:green} The patch does not contain any @author tags. {color} | \ {color:green}+1{color} | {color:green} test4tests {color} | {color:green} 0m 0s{color} | {color:green} The patch appears to include 2 new or modified test files. {color} | \ \ \ \ {color:brown} master Compile Tests {color} | \ {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 50s{color} | {color:blue} Maven dependency ordering for branch {color} | \ {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 5m 45s{color} | {color:green} master passed {color} | \ {color:green}+1{color} | {color:green} compile {color} | {color:green} 1m 14s{color} | {color:green} master passed {color} | \ {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 1m 47s{color} | {color:green} master passed {color} | \ {color:green}+1{color} | {color:green} shadedjars {color} | {color:green} 7m 3s{color} | {color:green} branch has no errors when building our shaded downstream artifacts. {color} | \ {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 1m 0s{color} | {color:green} master passed {color} | \ \ \ \ {color:brown} Patch Compile Tests {color} | \ {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 13s{color} | {color:blue} Maven dependency ordering for patch {color} | \ {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 5m 13s{color} | {color:green} the patch passed {color} | \ {color:green}+1{color} | {color:green} compile {color} | {color:green} 1m 15s{color} | {color:green} the patch passed {color} | \ {color:green}+1{color} | {color:green} javac {color} | {color:green} 1m 15s{color} | {color:green} the patch passed {color} | \ {color:red}-1{color} | {color:red} checkstyle {color} | {color:red} 1m 25s{color} | {color:red} hbase-server: The patch generated 5 new + 244 unchanged - 12 fixed = 249 total (was 256) {color} | \ {color:green}+1{color} | {color:green} whitespace {color} | {color:green} 0m 0s{color} | {color:green} The patch

