Hadoop YARN / YARN-7146

Many RM unit tests failing with FairScheduler

⌄ Details

Type:	🟥 Bug	Status:	**RESOLVED**
Priority:	⌃ Major	Resolution:	Fixed
Affects Version/s:	3.0.0-beta1	Fix Version/s:	2.9.0, 3.0.0-beta1, 3.1.0
Component/s:	test		
Labels:	None		
Target Version/s:	2.9.0, 3.0.0-beta1		
Hadoop Flags:	Reviewed		

⌄ Description

Many of the RM unit tests are failing when using the FairScheduler.

Here is a list of affected test classes:

```
TestYarnClient
TestApplicationCleanup
TestApplicationMasterLauncher
TestDecommissioningNodesWatcher
TestKillApplicationWithRMHA
TestNodeBlacklistingOnAMFailures
TestRM
TestRMAdminService
TestRMRestart
TestResourceTrackerService
TestWorkPreservingRMRestart
TestAMRMRPCNodeUpdates
TestAMRMRPCResponseId
TestAMRestart
TestApplicationLifetimeMonitor
TestNodesListManager
TestRMContainerImpl
TestAbstractYarnScheduler
TestSchedulerUtils
TestFairOrderingPolicy
TestAMRMTokens
TestDelegationTokenRenewer
```

Most of the test methods in these classes are failing, though some do succeed.

There's two main categories of issues:

1. The test submits an application to the `MockRM` and waits for it to enter a specific state, which it never does, and the test times out. We need to call `update()` on the scheduler.
2. The test throws a `ClassCastException` on `FSQueueMetrics` to `CSQueueMetrics`. This is because `QueueMetrics` metrics are static, and a previous test using FairScheduler initialized it, and the current test is using CapacityScheduler. We need to reset the metrics.

⌄ Attachments

📄 YARN-7146.001.patch		16 kB	01/Sep/17 01:18
📄 YARN-7146.002.patch		42 kB	06/Sep/17 23:56
📄 YARN-7146.003.patch		52 kB	11/Sep/17 18:33
📄 YARN-7146.004.branch-2.patch		53 kB	26/Oct/17 20:24
📄 YARN-7146.004.patch		52 kB	12/Sep/17 19:51

⌄ Activity

↑

⌄ ◉ Robert Kanter added a comment - 01/Sep/17 01:19

The patch makes the necessary changes to solve the two problems above - these tests now all pass with the FairScheduler. For the second problem, I also had to set "mini cluster mode" on `DefaultMetricsSystem`. There was also one test where it assumed CapacityScheduler, but didn't configure it.

⌄ ◯ Hadoop QA added a comment - 01/Sep/17 04:14

❌ -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 22s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 7 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 10s	Maven dependency ordering for branch
+1	mvninstall	15m 47s	trunk passed
+1	compile	10m 7s	trunk passed
+1	checkstyle	1m 1s	trunk passed
+1	mvnsite	1m 12s	trunk passed
+1	findbugs	1m 41s	trunk passed
+1	javadoc	0m 50s	trunk passed
			Patch Compile Tests
0	mvndep	0m 10s	Maven dependency ordering for patch
+1	mvninstall	0m 55s	the patch passed
+1	compile	6m 11s	the patch passed
+1	javac	6m 11s	the patch passed
+1	checkstyle	1m 0s	hadoop-yarn-project/hadoop-yarn: The patch generated 0 new + 314 unchanged - 1 fixed = 314 total (was 315)
+1	mvnsite	1m 10s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	2m 6s	the patch passed
+1	javadoc	0m 57s	the patch passed
			Other Tests
-1	unit	48m 37s	hadoop-yarn-server-resourcemanager in the patch failed.
-1	unit	22m 3s	hadoop-yarn-client in the patch failed.
+1	asflicense	0m 28s	The patch does not generate ASF License warnings.
		122m 58s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.resourcemanager.scheduler.capacity.TestContainerAllocation
	hadoop.yarn.server.resourcemanager.scheduler.capacity.TestIncreaseAllocationExpirer
	hadoop.yarn.client.cli.TestLogsCLI
Timed out junit tests	org.apache.hadoop.yarn.server.resourcemanager.TestSubmitApplicationWithRMHA

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:71bbb86

JIRA Issue	YARN-7146
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12884848/YARN-7146.001.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle
uname	Linux ef4b845e8bd1 3.13.0-116-generic #163-Ubuntu SMP Fri Mar 31 14:13:22 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh
git revision	trunk / 1904100
Default Java	1.8.0_144
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-YARN-Build/17251/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/17251/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-client.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/17251/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-client U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17251/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

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🔽 ⊙ **Daniel Templeton** added a comment - 01/Sep/17 17:19

Thanks for fixing those, rkanter. Two things. First, please document the new `update()` method clearly so that it's obvious what it does and why it should be called. Second, rather than fixing these tests once and leaving them to rot again, can we please parameterize them or otherwise make them run with both capacity and fair schedulers?

🔽 ⊙ **Robert Kanter** added a comment - 06/Sep/17 23:56

The 002 patch:

- Adds docs for the update() method
- Makes `ParameterizedSchedulerTestBase` actually parameterized so that its subclasses run with both FS and CS
    - Also minor fixes to some of the tests to get this to work right
- Does lots of refactoring to `TestSchedulingWithAllocationRequestId`, which was using some wacky APIs and was very flakey with FS. I've cleaned that up and gotten it to work with FS now.

🔽 ⊙ **Hadoop QA** added a comment - 07/Sep/17 01:56

❌ **-1 overall**

Vote	Subsystem	Runtime	Comment
0	reexec	0m 17s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 15 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 22s	Maven dependency ordering for branch
+1	mvninstall	14m 17s	trunk passed
+1	compile	9m 26s	trunk passed
+1	checkstyle	1m 4s	trunk passed

+1	mvnsite	1m 13s	trunk passed
+1	findbugs	1m 45s	trunk passed
+1	javadoc	0m 49s	trunk passed
			Patch Compile Tests
0	mvndep	0m 10s	Maven dependency ordering for patch
+1	mvninstall	0m 57s	the patch passed
+1	compile	5m 48s	the patch passed
+1	javac	5m 48s	the patch passed
-0	checkstyle	1m 1s	hadoop-yarn-project/hadoop-yarn: The patch generated 15 new + 464 unchanged - 2 fixed = 479 total (was 466)
+1	mvnsite	1m 9s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	1m 55s	the patch passed
+1	javadoc	0m 47s	the patch passed
			Other Tests
-1	unit	45m 18s	hadoop-yarn-server-resourcemanager in the patch failed.
+1	unit	20m 24s	hadoop-yarn-client in the patch passed.
+1	asflicense	0m 27s	The patch does not generate ASF License warnings.
		115m 17s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.resourcemanager.scheduler.capacity.TestContainerAllocation

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:71bbb86
JIRA Issue	YARN-7146
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12885707/YARN-7146.002.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle
uname	Linux c5e130d0f8da 3.13.0-119-generic #166-Ubuntu SMP Wed May 3 12:18:55 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh
git revision	trunk / b6e7d13
Default Java	1.8.0_144
findbugs	v3.1.0-RC1
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/17310/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/17310/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/17310/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-client U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17310/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

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Robert Kanter added a comment - 07/Sep/17 03:33

Test failure unrelated: ~~YARN-7044~~

Daniel Templeton added a comment - 09/Sep/17 00:38

Looks generally good. The comment on `update()` still leaves a bit much to the imagination. You can't make it too FS specific, but at least give it some context. When should it be called and how often with what general intended effect? Please also add a comment when you set assign multiple to explain why you're doing it.

Robert Kanter added a comment - 11/Sep/17 18:37

The 003 patch:

- Adds a comment about assign multiple
- For `update()`, I ended up moving the `UpdateThread` mechanism from `FairScheduler` to `AbstractYarnScheduler`. The `update()` method was otherwise only called from tests and `MockRM`, so I couldn't really justify a valid comment for it without moving it. Doing that mostly involved moving some code around.
    - The `UpdateThread` will only start if the scheduler subclass sets the `updateInterval` to a positive value, so currently only `FairScheduler` actually uses it, but it is available to other schedulers.
    - `TestContinuousScheduling` had a test that checked the lifecycle of the `UpdateThread` as well as the `SchedulingThread`. I changed that to only do the `SchedulingThread` and added a similar test for the `UpdateThread` to `TestAbstractYarnScheduler`.

Hadoop QA added a comment - 11/Sep/17 20:37

❌ **-1 overall**

Vote	Subsystem	Runtime	Comment
0	reexec	0m 23s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 16 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 10s	Maven dependency ordering for branch
+1	mvninstall	13m 24s	trunk passed
+1	compile	10m 22s	trunk passed
+1	checkstyle	0m 55s	trunk passed
+1	mvnsite	1m 9s	trunk passed
+1	findbugs	1m 42s	trunk passed
+1	javadoc	0m 42s	trunk passed
			Patch Compile Tests
0	mvndep	0m 10s	Maven dependency ordering for patch
+1	mvninstall	0m 51s	the patch passed
+1	compile	5m 56s	the patch passed
+1	javac	5m 56s	the patch passed
-0	checkstyle	0m 52s	hadoop-yarn-project/hadoop-yarn: The patch generated 19 new + 467 unchanged - 5 fixed = 486 total (was 472)
+1	mvnsite	1m 6s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	1m 49s	the patch passed
+1	javadoc	0m 51s	the patch passed
			Other Tests

-1	unit	46m 43s	hadoop-yarn-server-resourcemanager in the patch failed.
+1	unit	20m 55s	hadoop-yarn-client in the patch passed.
+1	asflicense	0m 29s	The patch does not generate ASF License warnings.
		116m 40s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.resourcemanager.scheduler.capacity.TestContainerAllocation
	hadoop.yarn.server.resourcemanager.scheduler.fair.TestFSAppStarvation

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:71bbb86
JIRA Issue	YARN-7146
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12886477/YARN-7146.003.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle
uname	Linux 0d2658ab9622 4.4.0-43-generic #63-Ubuntu SMP Wed Oct 12 13:48:03 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh
git revision	trunk / de9994b
Default Java	1.8.0_144
findbugs	v3.1.0-RC1
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/17405/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/17405/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/17405/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-client U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17405/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

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Robert Kanter added a comment - 11/Sep/17 21:41 - edited

Test failures unrelated: YARN-7044, YARN-6747

Daniel Templeton added a comment - 12/Sep/17 19:02

Looks good. One minor nit in `testUpdateThreadLifeCycle()`: please add a message for the `assertNull()`.

Robert Kanter added a comment - 12/Sep/17 19:51

The 004 patch:

- Added a message to `assertNull` in `TestAbstractYarnScheduler#testUpdateThreadLifeCycle`

Grant Sohn added a comment - 12/Sep/17 21:09

+1 (non-binding) LGTM.

▾ ◉ Hadoop QA added a comment – 12/Sep/17 22:04

❌ -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 18s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 16 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 28s	Maven dependency ordering for branch
+1	mvninstall	16m 32s	trunk passed
+1	compile	10m 35s	trunk passed
+1	checkstyle	1m 6s	trunk passed
+1	mvnsite	1m 15s	trunk passed
+1	findbugs	2m 1s	trunk passed
+1	javadoc	0m 50s	trunk passed
			Patch Compile Tests
0	mvndep	0m 12s	Maven dependency ordering for patch
+1	mvninstall	0m 59s	the patch passed
+1	compile	7m 3s	the patch passed
+1	javac	7m 3s	the patch passed
-0	checkstyle	1m 17s	hadoop-yarn-project/hadoop-yarn: The patch generated 19 new + 468 unchanged - 5 fixed = 487 total (was 473)
+1	mvnsite	1m 29s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	2m 23s	the patch passed
+1	javadoc	0m 53s	the patch passed
			Other Tests
-1	unit	46m 12s	hadoop-yarn-server-resourcemanager in the patch failed.
-1	unit	21m 9s	hadoop-yarn-client in the patch failed.
+1	asflicense	0m 34s	The patch does not generate ASF License warnings.
		123m 34s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.resourcemanager.scheduler.capacity.TestContainerAllocation
	hadoop.yarn.client.api.impl.TestAMRMClientContainerRequest

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:71bbb86
JIRA Issue	~~YARN-7146~~
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12886709/YARN-7146.004.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle

uname	Linux 91b314f497fd 3.13.0-119-generic #166-Ubuntu SMP Wed May 3 12:18:55 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh
git revision	trunk / f1d751b
Default Java	1.8.0_144
findbugs	v3.1.0-RC1
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/17421/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/17421/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/17421/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-client.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/17421/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-client U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17421/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

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▼ ◉ Daniel Templeton added a comment - 13/Sep/17 17:59

LGTM +1, feel free to commit. I won't be able to get to it until Thursday, probably.

▼ ◉ Robert Kanter added a comment - 13/Sep/17 22:49

Thanks templedf and grant.sohn for the reviews. Committed to trunk and branch-3!

▼ ◉ Hudson added a comment - 13/Sep/17 23:16

SUCCESS: Integrated in Jenkins build Hadoop-trunk-Commit #12865 (See https://builds.apache.org/job/Hadoop-trunk-Commit/12865/)
YARN-7146. Many RM unit tests failing with FairScheduler (rkanter) (rkanter: rev bb34ae955496c1aa595dc1186153d605a41f5378)

- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/resourcetracker/TestNMReconnect.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/ParameterizedSchedulerTestBase.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/TestSchedulingWithAllocationRequestId.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/TestWorkPreservingRMRestart.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/reservation/TestReservationSystem.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/TestAbstractYarnScheduler.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/TestContinuousScheduling.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-client/src/test/java/org/apache/hadoop/yarn/client/api/impl/TestYarnClient.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/TestNodeBlacklistingOnAMFailures.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/RMHATestBase.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/TestRMAdminService.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/MockRM.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/policy/TestFairOrderingPolicy.java

- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/security/TestClientToAMTokens.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/TestRM.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/FairScheduler.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/TestRMRestart.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/AbstractYarnScheduler.java

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Robert Kanter added a comment - 26/Oct/17 20:24

Reopening for branch-2 version of the patch

Robert Kanter added a comment - 26/Oct/17 20:27

Uploading branch-2 version of the 004 patch. It's mostly the same, but here's the differences:

- Misc lines numbers and whatnot
- An additional method call had to be relocated from `FairScheduler.UpdateThread` to `AbstractYarnScheduler.UpdateThread`
- Replace Java 8 Lambda code in `ParameterizedSchedulerTestBase` with Java 7-compatible code
- Trivial change to constructor in `TestWorkPreservingUnmanagedAM`

Hadoop QA added a comment - 27/Oct/17 00:55

❌ **-1 overall**

Vote	Subsystem	Runtime	Comment
0	reexec	0m 12s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 17 new or modified test files.
			branch-2 Compile Tests
0	mvndep	0m 12s	Maven dependency ordering for branch
+1	mvninstall	8m 7s	branch-2 passed
+1	compile	6m 37s	branch-2 passed
+1	checkstyle	0m 57s	branch-2 passed
+1	mvnsite	1m 23s	branch-2 passed
+1	findbugs	2m 11s	branch-2 passed
+1	javadoc	0m 56s	branch-2 passed
			Patch Compile Tests
0	mvndep	0m 11s	Maven dependency ordering for patch
+1	mvninstall	1m 0s	the patch passed
+1	compile	6m 4s	the patch passed
+1	javac	6m 4s	the patch passed
-0	checkstyle	0m 55s	hadoop-yarn-project/hadoop-yarn: The patch generated 20 new + 460 unchanged - 5 fixed = 480 total (was 465)
+1	mvnsite	1m 20s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	2m 36s	the patch passed
-1	javadoc	0m 34s	hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager generated 4 new + 0 unchanged - 0 fixed = 4 total (was 0)
			Other Tests

+1	unit	49m 11s	hadoop-yarn-server-resourcemanager in the patch passed.
-1	unit	95m 43s	hadoop-yarn-client in the patch failed.
+1	asflicense	1m 0s	The patch does not generate ASF License warnings.
		188m 57s	

Reason	Tests
Failed junit tests	hadoop.yarn.client.TestFederationRMFailoverProxyProvider
Timed out junit tests	org.apache.hadoop.yarn.client.TestRMFailover
	org.apache.hadoop.yarn.client.cli.TestYarnCLI
	org.apache.hadoop.yarn.client.TestApplicationMasterServiceProtocolOnHA
	org.apache.hadoop.yarn.client.TestApplicationClientProtocolOnHA
	org.apache.hadoop.yarn.client.api.impl.TestYarnClient
	org.apache.hadoop.yarn.client.api.impl.TestAMRMClient

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:17213a0
JIRA Issue	YARN-7146
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12894211/YARN-7146.004.branch-2.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 12fdffa3e4a5 3.13.0-123-generic #172-Ubuntu SMP Mon Jun 26 18:04:35 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh
git revision	branch-2 / 4678315
maven	version: Apache Maven 3.3.9 (bb52d8502b132ec0a5a3f4c09453c07478323dc5; 2015-11-10T16:41:47+00:00)
Default Java	1.7.0_151
findbugs	v3.0.0
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/18164/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt
javadoc	https://builds.apache.org/job/PreCommit-YARN-Build/18164/artifact/patchprocess/diff-javadoc-javadoc-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/18164/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-client.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/18164/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-client U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/18164/console
Powered by	Apache Yetus 0.7.0-SNAPSHOT http://yetus.apache.org

This message was automatically generated.

⌄ ◯ Daniel Templeton added a comment - 27/Oct/17 16:22

+1 pending something conclusive from Jenkins.

⌄ ◯ Hadoop QA added a comment - 28/Oct/17 02:28

✗ -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	14m 44s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 17 new or modified test files.
			branch-2 Compile Tests
0	mvndep	0m 29s	Maven dependency ordering for branch
+1	mvninstall	8m 9s	branch-2 passed
+1	compile	6m 37s	branch-2 passed
+1	checkstyle	0m 56s	branch-2 passed
+1	mvnsite	1m 20s	branch-2 passed
+1	findbugs	2m 11s	branch-2 passed
+1	javadoc	0m 52s	branch-2 passed
			Patch Compile Tests
0	mvndep	0m 11s	Maven dependency ordering for patch
+1	mvninstall	0m 58s	the patch passed
+1	compile	5m 57s	the patch passed
+1	javac	5m 57s	the patch passed
-0	checkstyle	0m 55s	hadoop-yarn-project/hadoop-yarn: The patch generated 20 new + 460 unchanged - 5 fixed = 480 total (was 465)
+1	mvnsite	1m 17s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	2m 30s	the patch passed
-1	javadoc	0m 32s	hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager generated 4 new + 0 unchanged - 0 fixed = 4 total (was 0)
			Other Tests
-1	unit	104m 13s	hadoop-yarn-server-resourcemanager in the patch failed.
-1	unit	142m 32s	hadoop-yarn-client in the patch failed.
-1	asflicense	2m 47s	The patch generated 3 ASF License warnings.
		299m 37s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.resourcemanager.TestRMRestart
	hadoop.yarn.server.resourcemanager.TestApplicationACLs
	hadoop.yarn.server.resourcemanager.scheduler.fair.TestFSAppStarvation
	hadoop.yarn.client.TestGetGroups
	hadoop.yarn.client.TestFederationRMFailoverProxyProvider
	hadoop.yarn.client.TestResourceManagerAdministrationProtocolPBClientImpl
Timed out junit tests	org.apache.hadoop.yarn.server.resourcemanager.TestRMHA
	org.apache.hadoop.yarn.server.resourcemanager.recovery.TestFSRMStateStore
	org.apache.hadoop.yarn.server.resourcemanager.TestRMAdminService
	org.apache.hadoop.yarn.client.api.impl.TestAMRMProxy
	org.apache.hadoop.yarn.client.TestRMFailover

	org.apache.hadoop.yarn.client.api.impl.TestOpportunisticContainerAllocationE2E
	org.apache.hadoop.yarn.client.cli.TestYarnCLI
	org.apache.hadoop.yarn.client.TestHedgingRequestRMFailoverProxyProvider
	org.apache.hadoop.yarn.client.TestApplicationClientProtocolOnHA
	org.apache.hadoop.yarn.client.api.impl.TestAMRMClient
	org.apache.hadoop.yarn.client.api.impl.TestYarnClient
	org.apache.hadoop.yarn.client.api.impl.TestNMClient

Subsystem	Report/Notes
Docker	Client=17.05.0-ce Server=17.05.0-ce Image:yetus/hadoop:17213a0
JIRA Issue	YARN-7146
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12894211/YARN-7146.004.branch-2.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux f74213355497 3.13.0-129-generic #178-Ubuntu SMP Fri Aug 11 12:48:20 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	branch-2 / 548116c
maven	version: Apache Maven 3.3.9 (bb52d8502b132ec0a5a3f4c09453c07478323dc5; 2015-11-10T16:41:47+00:00)
Default Java	1.7.0_151
findbugs	v3.0.0
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/18206/artifact/out/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt
javadoc	https://builds.apache.org/job/PreCommit-YARN-Build/18206/artifact/out/diff-javadoc-javadoc-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/18206/artifact/out/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/18206/artifact/out/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-client.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/18206/testReport/
asflicense	https://builds.apache.org/job/PreCommit-YARN-Build/18206/artifact/out/patch-asflicense-problems.txt
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-client U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/18206/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

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▼ ◯ Daniel Templeton added a comment - 30/Oct/17 18:41

rkanter, wanna check those test failures?

▼ ◯ Robert Kanter added a comment - 30/Oct/17 21:42

They don't appear to be related. TestOpportunisticContainerAllocationE2E fails on branch-2 without the patch, and many of the others are due to the RM failing to startup, and the ones I tried locally were fine. I kicked off another run.

▼ ◯ Hadoop QA added a comment - 31/Oct/17 22:59

❌ -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 18s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 17 new or modified test files.
			branch-2 Compile Tests
0	mvndep	0m 25s	Maven dependency ordering for branch
+1	mvninstall	9m 11s	branch-2 passed
+1	compile	6m 47s	branch-2 passed
+1	checkstyle	0m 51s	branch-2 passed
+1	mvnsite	1m 7s	branch-2 passed
+1	findbugs	2m 0s	branch-2 passed
+1	javadoc	0m 51s	branch-2 passed
			Patch Compile Tests
0	mvndep	0m 10s	Maven dependency ordering for patch
+1	mvninstall	0m 56s	the patch passed
+1	compile	5m 40s	the patch passed
+1	javac	5m 40s	the patch passed
-0	checkstyle	0m 46s	hadoop-yarn-project/hadoop-yarn: The patch generated 20 new + 460 unchanged - 5 fixed = 480 total (was 465)
+1	mvnsite	1m 4s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	2m 19s	the patch passed
-1	javadoc	0m 25s	hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager generated 4 new + 0 unchanged - 0 fixed = 4 total (was 0)
			Other Tests
-1	unit	88m 54s	hadoop-yarn-server-resourcemanager in the patch failed.
-1	unit	65m 39s	hadoop-yarn-client in the patch failed.
+1	asflicense	0m 24s	The patch does not generate ASF License warnings.
		189m 52s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesApps
	hadoop.yarn.server.resourcemanager.TestApplicationACLs
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesNodes
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServices
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesConfigurationMutation
	hadoop.yarn.server.resourcemanager.TestRMRestart
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesDelegationTokens
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesSchedulerActivities
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesAppsModification
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebappAuthentication
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesHttpStaticUserPermissions
	hadoop.yarn.server.resourcemanager.TestRMHAForNodeLabels
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesReservation

	hadoop.yarn.server.resourcemanager.TestRMProxyUsersConf
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesFairScheduler
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServiceAppsNodelabel
	hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesForCSWithPartitions
	hadoop.yarn.client.TestFederationRMFailoverProxyProvider
Timed out junit tests	org.apache.hadoop.yarn.client.TestRMFailover
	org.apache.hadoop.yarn.client.TestApplicationClientProtocolOnHA
	org.apache.hadoop.yarn.client.api.impl.TestYarnClient
	org.apache.hadoop.yarn.client.api.impl.TestAMRMClient

Subsystem	Report/Notes
Docker	Client=17.05.0-ce Server=17.05.0-ce Image:yetus/hadoop:17213a0
JIRA Issue	YARN-7146
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12894211/YARN-7146.004.branch-2.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 261ba6f186cb 4.4.0-43-generic #63-Ubuntu SMP Wed Oct 12 13:48:03 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	branch-2 / ac41107
maven	version: Apache Maven 3.3.9 (bb52d8502b132ec0a5a3f4c09453c07478323dc5; 2015-11-10T16:41:47+00:00)
Default Java	1.7.0_151
findbugs	v3.0.0
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/18272/artifact/out/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt
javadoc	https://builds.apache.org/job/PreCommit-YARN-Build/18272/artifact/out/diff-javadoc-javadoc-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/18272/artifact/out/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/18272/artifact/out/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-client.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/18272/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-client U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/18272/console
Powered by	Apache Yetus 0.7.0-SNAPSHOT http://yetus.apache.org

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⌄ ◉ Daniel Templeton added a comment - 01/Nov/17 16:42

That run was worse than the last. Geez. Retriggering one more time.

⌄ ◉ Hadoop QA added a comment - 01/Nov/17 20:54

❌ -1 overall

Vote	Subsystem	Runtime	Comment

0	reexec	20m 39s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 17 new or modified test files.
			branch-2 Compile Tests
0	mvndep	0m 14s	Maven dependency ordering for branch
+1	mvninstall	10m 9s	branch-2 passed
+1	compile	7m 26s	branch-2 passed
+1	checkstyle	0m 58s	branch-2 passed
+1	mvnsite	1m 21s	branch-2 passed
+1	findbugs	2m 9s	branch-2 passed
+1	javadoc	0m 52s	branch-2 passed
			Patch Compile Tests
0	mvndep	0m 11s	Maven dependency ordering for patch
+1	mvninstall	1m 2s	the patch passed
+1	compile	6m 34s	the patch passed
+1	javac	6m 34s	the patch passed
-0	checkstyle	0m 54s	hadoop-yarn-project/hadoop-yarn: The patch generated 20 new + 460 unchanged - 5 fixed = 480 total (was 465)
+1	mvnsite	1m 16s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	2m 31s	the patch passed
-1	javadoc	0m 30s	hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager generated 4 new + 0 unchanged - 0 fixed = 4 total (was 0)
			Other Tests
+1	unit	63m 36s	hadoop-yarn-server-resourcemanager in the patch passed.
-1	unit	123m 16s	hadoop-yarn-client in the patch failed.
+1	asflicense	1m 38s	The patch does not generate ASF License warnings.
		247m 42s	

Reason	Tests
Failed junit tests	hadoop.yarn.client.TestFederationRMFailoverProxyProvider
Timed out junit tests	org.apache.hadoop.yarn.client.api.impl.TestAMRMProxy
	org.apache.hadoop.yarn.client.TestRMFailover
	org.apache.hadoop.yarn.client.TestHedgingRequestRMFailoverProxyProvider
	org.apache.hadoop.yarn.client.TestApplicationMasterServiceProtocolOnHA
	org.apache.hadoop.yarn.client.TestApplicationClientProtocolOnHA
	org.apache.hadoop.yarn.client.api.impl.TestYarnClient
	org.apache.hadoop.yarn.client.api.impl.TestAMRMClient
	org.apache.hadoop.yarn.client.api.impl.TestNMClient

Subsystem	Report/Notes
Docker	Client=17.05.0-ce Server=17.05.0-ce Image:yetus/hadoop:17213a0
JIRA Issue	~~YARN-7146~~
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12894211/YARN-7146.004.branch-2.patch

Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux 6c22f21941bf 3.13.0-116-generic #163-Ubuntu SMP Fri Mar 31 14:13:22 UTC 2017 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/patchprocess/precommit/personality/provided.sh
git revision	branch-2 / 0f20434
maven	version: Apache Maven 3.3.9 (bb52d8502b132ec0a5a3f4c09453c07478323dc5; 2015-11-10T16:41:47+00:00)
Default Java	1.7.0_151
findbugs	v3.0.0
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/18287/artifact/out/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt
javadoc	https://builds.apache.org/job/PreCommit-YARN-Build/18287/artifact/out/diff-javadoc-javadoc-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/18287/artifact/out/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-client.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/18287/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-client U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/18287/console
Powered by	Apache Yetus 0.7.0-SNAPSHOT http://yetus.apache.org

This message was automatically generated.

Daniel Templeton added a comment - 01/Nov/17 21:05

That worked. +1

Daniel Templeton added a comment - 01/Nov/17 21:14

Thanks, rkanter. Committed to branch-2 and branch-2.9.

People

Assignee:

Robert Kanter

Reporter:

Robert Kanter

Votes:

0   Vote for this issue

Watchers:

6   Start watching this issue

Dates

Created:

01/Sep/17 01:16

Updated:

01/Nov/17 21:14

Resolved:

01/Nov/17 21:14