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Hadoop YARN / YARN-5990 [Umbrella] Follow-up (phase-2) FairScheduler preemption improvements / YARN-6432

FairScheduler: Reserve preempted resources for corresponding applications

▼ Details

Type:	🕒 Sub-task	Status:	RESOLVED
Priority:	♠ Major	Resolution:	Fived

Affects Version/s: None Fix Version/s: 2.9.0, 3.0.0-alpha4

Component/s: None
Labels: None
Hadoop Flags: Reviewed

Attachments

F YARN-6432.000.patch	38 kB	04/Apr/17 02:39
F YARN-6432.001.patch	38 kB	04/Apr/17 17:43
F YARN-6432.002.patch	38 kB	05/Apr/17 00:17
YARN-6432.branch-2.addendum.patch	1 kB	20/Apr/17 03:55
YARN-6432.branch-2.patch	38 kB	14/Apr/17 21:32

Issue Links

breaks

- YARN-6895 [FairScheduler] Preemption reservation may cause regular reservation leaks
- □ YARN-6501 FSSchedulerNode.java fails to compile with JDK7

 RESOLVED

duplicates

YARN-5829 FS preemption should reserve a node before considering containers on it for preemption

Activity

▼ ○ Miklos Szegedi added a comment - 04/Apr/17 02:37

YARN 5829 keeps pulling a previous version of the pull request for Jenkins, so we decided to create this Jira to finish the code review.

▼ ○ Miklos Szegedi added a comment - 04/Apr/17 02:39

kasha, please review.

▼ ○ Hadoop QA added a comment - 04/Apr/17 03:57

-1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 22s	Docker mode activated.
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 2 new or modified test files.

1

RESOLVED

+1	mvninstall	16m 13s	trunk passed
+1	compile	0m 45s	trunk passed
+1	checkstyle	0m 32s	trunk passed
+1	mvnsite	0m 42s	trunk passed
+1	mvneclipse	0m 17s	trunk passed
+1	findbugs	1m 14s	trunk passed
+1	javadoc	0m 27s	trunk passed
+1	mvninstall	0m 44s	the patch passed
+1	compile	0m 44s	the patch passed
+1	javac	0m 44s	the patch passed
-0	checkstyle	0m 28s	hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager: The patch generated 8 new + 94 unchanged - 3 fixed = 102 total (was 97)
+1	mvnsite	0m 40s	the patch passed
+1	mvneclipse	0m 15s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	1m 21s	the patch passed
+1	javadoc	0m 25s	the patch passed
-1	unit	41m 41s	hadoop-yarn-server-resourcemanager in the patch failed.
-1	asflicense	0m 17s	The patch generated 1 ASF License warnings.
		68m 39s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.resourcemanager.TestRMRestart

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:a9ad5d6
JIRA Issue	YARN 6432
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12861800/YARN-6432.000.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle
uname	Linux f96b236c9058 3.13.0-106-generic #153-Ubuntu SMP Tue Dec 6 15:44:32 UTC 2016 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh
git revision	trunk / 5faa949
Default Java	1.8.0_121
findbugs	v3.0.0
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/15497/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/15497/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/15497/testReport/
asflicense	https://builds.apache.org/job/PreCommit-YARN-Build/15497/artifact/patchprocess/patch-asflicense-problems.txt

modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server-resourcemanager
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/15497/console
Powered by Apache Yetus 0.5.0-SNAPSHOT http://yetus.apache.org	

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➤ ○ Hadoop QA added a comment - 04/Apr/17 18:55



Vote	Subsystem	Runtime	Comment
0	reexec	0m 21s	Docker mode activated.
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 2 new or modified test files.
+1	mvninstall	16m 20s	trunk passed
+1	compile	0m 43s	trunk passed
+1	checkstyle	0m 27s	trunk passed
+1	mvnsite	0m 38s	trunk passed
+1	mvneclipse	0m 17s	trunk passed
+1	findbugs	1m 10s	trunk passed
+1	javadoc	0m 23s	trunk passed
+1	mvninstall	0m 35s	the patch passed
+1	compile	0m 35s	the patch passed
+1	javac	0m 35s	the patch passed
-0	checkstyle	0m 26s	hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager: The patch generated 1 new + 94 unchanged - 3 fixed = 95 total (was 97)
+1	mvnsite	0m 37s	the patch passed
+1	mvneclipse	0m 14s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	1m 14s	the patch passed
+1	javadoc	0m 21s	the patch passed
-1	unit	40m 39s	hadoop-yarn-server-resourcemanager in the patch failed.
+1	asflicense	0m 21s	The patch does not generate ASF License warnings.
		66m 46s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.resourcemanager.TestRMRestart
	had oop. yarn. server. resource manager. Test Work Preserving RMR estart

Subsystem	Report/Notes	
Docker	Image:yetus/hadoop:a9ad5d6	
JIRA Issue	YARN-6432	

JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12861926/YARN-6432.001.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle
uname	Linux 4b23841a2e25 3.13.0-105-generic #152-Ubuntu SMP Fri Dec 2 15:37:11 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux
Build tool	maven
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh
git revision	trunk / 6eba792
Default Java	1.8.0_121
findbugs	v3.0.0
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/15506/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/15506/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/15506/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/15506/console
Powered by	Apache Yetus 0.5.0-SNAPSHOT http://yetus.apache.org

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➤ ○ Hadoop QA added a comment - 05/Apr/17 01:20



Vote	Subsystem	Runtime	Comment
0	reexec	0m 18s	Docker mode activated.
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	test4tests	0m 0s	The patch appears to include 2 new or modified test files.
+1	mvninstall	15m 0s	trunk passed
+1	compile	0m 33s	trunk passed
+1	checkstyle	0m 26s	trunk passed
+1	mvnsite	0m 36s	trunk passed
+1	mvneclipse	0m 15s	trunk passed
+1	findbugs	1m 1s	trunk passed
+1	javadoc	0m 20s	trunk passed
+1	mvninstall	0m 30s	the patch passed
+1	compile	0m 31s	the patch passed
+1	javac	0m 31s	the patch passed
+1	checkstyle	0m 25s	hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager: The patch generated 0 new + 95 unchanged - 3 fixed = 95 total (was 98)
+1	mvnsite	0m 32s	the patch passed
+1	mvneclipse	0m 12s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	findbugs	1m 5s	the patch passed
+1	javadoc	0m 18s	the patch passed

-1	unit	37m 56s	hadoop-yarn-server-resourcemanager in the patch failed.	
+1	asflicense	0m 19s	The patch does not generate ASF License warnings.	
		61m 42s		

Reason	Tests		
Failed junit tests	hadoop.yarn.server.resourcemanager.TestRMRestart		

Subsystem	Report/Notes			
Docker	Image:yetus/hadoop:a9ad5d6			
JIRA Issue	YARN-6432			
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12861982/YARN-6432.002.patch			
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle			
uname	Linux 169c87e8b458 3.13.0-107-generic #154-Ubuntu SMP Tue Dec 20 09:57:27 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux			
Build tool	maven			
Personality	/testptch/hadoop/patchprocess/precommit/personality/provided.sh			
git revision	trunk / 9cc04b4			
Default Java	1.8.0_121			
findbugs	v3.0.0			
unit	https://builds.apache.org/job/PreCommit-YARN-Build/15518/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/15518/testReport/			
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/resourcemanager			
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/15518/console			
Powered by	Apache Yetus 0.5.0-SNAPSHOT http://yetus.apache.org			

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- Comment 12/Apr/17 21:14
 - +1, checking this in.
- Hudson added a comment 12/Apr/17 21:44

SUCCESS: Integrated in Jenkins build Hadoop-trunk-Commit #11582 (See https://builds.apache.org/job/Hadoop-trunk-Commit/11582/)

YARN-6432. FairScheduler: Reserve preempted resources for corresponding (kasha: rev c3375175d616e0380560f89d491b6b9753a8f3e1)

- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-serverresourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/rmcontainer/RMContainer.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/FSAppAttempt.java
- (add) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-serverresourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/TestFSSchedulerNode.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/FSPreemptionThread.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/FSSchedulerNode.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-serverresourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/TestFairSchedulerPreemption.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-serverresourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/SchedulerNode.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-serverresourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/rmcontainer/RMContainerImpl.java
- Karthik Kambatla added a comment 12/Apr/17 21:51

Committed to trunk. branch-2 patch has compilation issues. miklos.szegedi@cloudera.com - mind posting a branch-2 patch?

Miklos Szegedi added a comment - 14/Apr/17 21:32

Thank you for checking this in. Attached the branch-2 patch.

O Hadoop QA added a comment - 14/Apr/17 21:38



Vote	Subsystem	Runtime	Comment
0	reexec	0m 0s	Docker mode activated.
-1	docker	0m 8s	Docker failed to build yetus/hadoop:b59b8b7.

Subsystem	Report/Notes
JIRA Issue	YARN 6432
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12863505/YARN-6432.branch-2.patch
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/15645/console
Powered by	Apache Yetus 0.5.0-SNAPSHOT http://yetus.apache.org

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Hudson added a comment - 17/Apr/17 15:44

SUCCESS: Integrated in Jenkins build Hadoop-trunk-Commit #11591 (See https://builds.apache.org/job/Hadoop-trunk-Commit/11591/)

YARN-6432. FairScheduler: Reserve preempted resources for corresponding (kasha: rev c3375175d616e0380560f89d491b6b9753a8f3e1)

- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/TestFairSchedulerPreemption.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-serverresourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/rmcontainer/RMContainerImpl.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/FSSchedulerNode.java
- (add) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-serverresourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/TestFSSchedulerNode.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/rmcontainer/RMContainer.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-serverresourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/FSAppAttempt.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-serverresourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/FairScheduler.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-serverresourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/fair/FSPreemptionThread.java
- (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-serverresourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/SchedulerNode.java

Karthik Kambatla added a comment - 17/Apr/17 21:37

Thanks for posting the branch-2 patch, Miklos. Just committed it to, well, branch-2.

John Zhuge added a comment - 20/Apr/17 01:39

kasha FSSchedulerNode.java failed to build with JDK7 in branch-2, Map#putIfAbsent is introduced in JDK8. Tracked in YARN-6501. I am surprised there is no JDK7 post-commit build.

Miklos Szegedi added a comment - 20/Apr/17 03:55

Thank you, jzhuge for the report. I attached an addendum for branch-2.

John Zhuge added a comment - 20/Apr/17 04:14

No problem miklos.szegedi@cloudera.com.

In the addendum patch, you probably should use the following code as specified by by Map#putlfAbsent JDK8 doc

If the specified key is not already associated with a value (or is mapped to null)..."

```
if (get(key) == null) {
  put(key, value);
}
```

You can see my patch posted to YARN-6501.

Miklos Szegedi added a comment - 20/Apr/17 04:22

The original patch does not map null, however this might be changed in the future. I think we should use your patch in YARN-6501. Thank you for the patch.

John Zhuge added a comment - 20/Apr/17 05:37

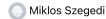
Sounds good miklos.szegedi@cloudera.com.

People

Assignee:



Reporter:



Votes:

Vote for this issue

Watchers:

7 Start watching this issue

Dates

Created:

04/Apr/17 02:36

Updated:

21/Nov/17 22:45

Resolved:

17/Apr/17 21:37