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Hadoop YARN / [YARN-3611 Support Docker Containers In LinuxContainerExecutor](#) / [YARN-7286](#)

Add support for docker to have no capabilities

Details

Type:	Sub-task	Status:	RESOLVED
Priority:	Major	Resolution:	Fixed
Affects Version/s:	None	Fix Version/s:	2.9.0, 3.0.0
Component/s:	yarn		
Labels:	<div>Docker</div>		
Hadoop Flags:	Reviewed		

Description

Support for controlling capabilities was introduced in [YARN-4258](#). However, it does not allow for the capabilities list to be NULL, since `getStrings()` will treat an empty value the same as it treats an unset property. So, a NULL list will actually give the default capabilities list.

Attachments

YARN-7286.001.patch	1 kB	04/Oct/17 16:29
YARN-7286.002.patch	4 kB	04/Oct/17 18:00
YARN-7286.003.patch	5 kB	09/Oct/17 20:58
YARN-7286.004.patch	6 kB	13/Oct/17 22:34
YARN-7286.005.patch	7 kB	16/Oct/17 13:42
YARN-7286.006.patch	7 kB	16/Oct/17 21:40
YARN-7286.007.patch	6 kB	17/Oct/17 21:49
YARN-7286.008.patch	7 kB	01/Nov/17 21:34

Issue Links

relates to
YARN-4258 Add support for controlling capabilities for docker containers RESOLVED

Activity

Eric Badger added a comment - 04/Oct/17 16:30
Attaching patch that utilizes the keyword "none" to remove force no capabilities to be added. This keyword supersedes anything else in the capabilities list. I was going to have it throw an error on a list with the "none" keyword and with extra capabilities, but the function doesn't expect an exception and I didn't want to change a bunch of function signatures. However, if that is best I can update the patch to do so.
Hadoop QA added a comment - 04/Oct/17 17:26
<div> -1 overall</div>

Vote	Subsystem	Runtime	Comment
0	reexec	0m 14s	Docker mode activated.
			Prechecks
+1	@author	0m 0s	The patch does not contain any @author tags.
-1	test4tests	0m 0s	The patch doesn't appear to include any new or modified tests. Please justify why no new tests are needed for this patch. Also please list what manual steps were performed to verify this patch.
			trunk Compile Tests
+1	mvninstall	13m 38s	trunk passed

+1	compile	0m 46s	trunk passed
+1	checkstyle	0m 19s	trunk passed
+1	mvnsite	0m 29s	trunk passed
+1	shadedclient	9m 31s	branch has no errors when building and testing our client artifacts.
+1	findbugs	0m 44s	trunk passed
+1	javadoc	0m 18s	trunk passed
Patch Compile Tests			
+1	mvninstall	0m 25s	the patch passed
+1	compile	0m 42s	the patch passed
+1	javac	0m 42s	the patch passed
+1	checkstyle	0m 16s	the patch passed
+1	mvnsite	0m 26s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	10m 1s	patch has no errors when building and testing our client artifacts.
+1	findbugs	0m 52s	the patch passed
+1	javadoc	0m 17s	the patch passed
Other Tests			
+1	unit	14m 6s	hadoop-yarn-server-nodemanager in the patch passed.
+1	asflicense	0m 20s	The patch does not generate ASF License warnings.
		53m 50s	

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:71bbb86
JIRA Issue	YARN-7286
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12890385/YARN-7286.001.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux b9ce8ddda929 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 / 20e9ce3
Default Java	1.8.0_144
findbugs	v3.1.0-RC1
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/17768/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17768/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

This message was automatically generated.

Eric Badger added a comment - 04/Oct/17 18:01

Added a unit test


Hadoop QA added a comment - 04/Oct/17 19:01

 +1 overall


Vote	Subsystem	Runtime	Comment
0	reexec	0m 19s	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 1 new or modified test files.
trunk Compile Tests			
+1	mvninstall	12m 49s	trunk passed
+1	compile	0m 40s	trunk passed
+1	checkstyle	0m 17s	trunk passed
+1	mvnsite	0m 26s	trunk passed
+1	shadedclient	8m 35s	branch has no errors when building and testing our client artifacts.
+1	findbugs	0m 41s	trunk passed
+1	javadoc	0m 15s	trunk passed
Patch Compile Tests			
+1	mvninstall	0m 24s	the patch passed
+1	compile	0m 40s	the patch passed
+1	javac	0m 40s	the patch passed
-0	checkstyle	0m 15s	hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager: The patch generated 3 new + 2 unchanged - 0 fixed = 5 total (was 2)
+1	mvnsite	0m 25s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	shadedclient	9m 7s	patch has no errors when building and testing our client artifacts.
+1	findbugs	0m 47s	the patch passed
+1	javadoc	0m 15s	the patch passed
Other Tests			
+1	unit	14m 15s	hadoop-yarn-server-nodemanager in the patch passed.
+1	asflicense	0m 17s	The patch does not generate ASF License warnings.
		50m 53s	

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:71bbb86
JIRA Issue	YARN-7286
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12890402/YARN-7286.002.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle
uname	Linux db2778fd7cf3 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 / 20e9ce3
Default Java	1.8.0_144
findbugs	v3.1.0-RC1
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/17771/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/17771/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17771/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

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▼  [Eric Badger](#) added a comment - 09/Oct/17 19:07


[jlowe](#), can you review this when you get a chance?

▼  [Jason Darrell Lowe](#) added a comment - 09/Oct/17 20:03


Thanks for the patch!

The description of the property in yarn-default.xml should be updated to document how a user requests no capabilities. As it is now the user will likely set this to an empty value and not realize they're getting quite a few capabilities by default.

It would be nice to cleanup the checkstyle issues.

▼  [Eric Badger](#) added a comment - 09/Oct/17 20:58

Thanks for the review, [jlowe](#)! Uploading a new patch that updates the yarn-default documentation and fixes the checkstyle warnings.

▼  [Hadoop QA](#) added a comment - 09/Oct/17 22:37

 -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	4m 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 1 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 50s	Maven dependency ordering for branch
+1	mvninstall	13m 58s	trunk passed
+1	compile	10m 11s	trunk passed
+1	checkstyle	0m 59s	trunk passed
+1	mvnsite	1m 17s	trunk passed
+1	shadedclient	12m 1s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 10s	trunk passed
+1	javadoc	1m 18s	trunk passed
			Patch Compile Tests
0	mvndep	0m 14s	Maven dependency ordering for patch
+1	mvninstall	1m 5s	the patch passed
+1	compile	6m 28s	the patch passed
+1	javac	6m 28s	the patch passed
+1	checkstyle	0m 55s	the patch passed
+1	mvnsite	1m 15s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	xml	0m 1s	The patch has no ill-formed XML file.
+1	shadedclient	10m 24s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 38s	the patch passed
+1	javadoc	1m 11s	the patch passed
			Other Tests
+1	unit	2m 45s	hadoop-yarn-common in the patch passed.
-1	unit	16m 48s	hadoop-yarn-server-nodemanager in the patch failed.
+1	asflicense	0m 32s	The patch does not generate ASF License warnings.
		96m 59s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.nodemanager.scheduler.TestDistributedScheduler

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:71bbb86
JIRA Issue	YARN-7286
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12891124/YARN-7286.003.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient xml findbugs checkstyle
uname	Linux b196c7a505a2 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 / 7938208
Default Java	1.8.0_144
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-YARN-Build/17826/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/17826/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17826/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

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Shane Kumpf added a comment - 10/Oct/17 13:06

Thanks for the patch, [ebadger](#)! It does seem to me that setting an empty value would be more intuitive vs introducing a special keyword. Is there maybe an alternative approach that would make the empty value work?

Eric Badger added a comment - 10/Oct/17 15:25

shanekumpf@gmail.com, I don't see a way of doing it since the `get ()` method returns null both when the value is null and when the key doesn't exist. So there's no way to differentiate between the two. If there's some method that differentiates between those two cases, then we could make this work, but I'm not aware of such a method.

Jason Darrell Lowe added a comment - 10/Oct/17 16:02

Yeah, the core problem with trying to use empty as a value was [YARN-4258](#) set a precedence for the default value to be `DEFAULT_NM_DOCKER_CONTAINER_CAPABILITIES`, a significant list of capabilities by default. The closest we could get is to leave the default in `yarn-default.xml` to be the current list in `DEFAULT_NM_DOCKER_CONTAINER_CAPABILITIES` but treat an empty/unset property as no capability. That would technically be incompatible with the behavior in [YARN-4258](#), and users would still have to explicitly unset the property or set it to an empty string to get nothing rather than getting nothing by default. However I think it's probably rare for someone to be explicitly unsetting this property today or setting it to an empty string and expecting the large list of capabilities in `DEFAULT_NM_DOCKER_CONTAINER_CAPABILITIES` to be picked up. Pinging [sidharta-s](#) and [vvasudev](#) since they worked on [YARN-4258](#) and may have opinions on how best to allow no capabilities to be set.

If we decide to keep with the "none" approach, given other properties can be specified case-insensitive, I think it would be consistent to allow either "none" or "NONE" as a value.


Eric Badger added a comment - 10/Oct/17 17:05

If we decide to keep with the "none" approach, given other properties can be specified case-insensitive, I think it would be consistent to allow either "none" or "NONE" as a value.


I'll wait for [sidharta-s](#) and [vvasudev](#) to respond before I upload a new patch.

Shane Kumpf added a comment - 10/Oct/17 23:36

Makes sense, thanks for taking another look. On the none vs NONE, I'm torn. NONE isn't a capability, but the docs do even mention it's is best to use uppercase for the value. However, Eric clearly documents to use "none".

▼  [Varun Vasudev](#) added a comment - 11/Oct/17 08:41

The none approach makes best sense to me. The DEFAULT_NM_DOCKER_CONTAINER_CAPABILITIES was added because it's unreasonable to expect every user to specify capabilities. We should just call it out in the documentation that "none" is a special property for us. As to lower-case vs upper-case, the upper case is just a recommendation, we should go with whatever we think makes sense.


▼  [Eric Badger](#) added a comment - 11/Oct/17 13:36

The none approach makes best sense to me. The DEFAULT_NM_DOCKER_CONTAINER_CAPABILITIES was added because it's unreasonable to expect every user to specify capabilities.

Well, yes, but that's at the discretion of the admin. If they want to give the user 0 capabilities, then they should be able to. The question is what the best way to do that is. If I were to look at yarn-site.xml and see <value></value> for the capabilities, I would implicitly think there are no capabilities given, since this is an empty list. However, this would actually give the default list of capabilities.

As to lower-case vs upper-case, the upper case is just a recommendation, we should go with whatever we think makes sense.

My reasoning behind only using "none" instead of "NONE" was so that it was noticeably different. IMO something like "SETUID, SETGID, none" is more obviously out of place than "SETUID, SETGID, NONE". But I'm fine if we want to add support for upper case as well.

▼  [Sidharta Seethana](#) added a comment - 11/Oct/17 20:27 - edited

The DEFAULT_NM_DOCKER_CONTAINER_CAPABILITIES list was based on the capabilities docker enabled by default at the time. This default list of capabilities is meant to stay consistent even if docker changes this list over time.

Well, yes, but that's at the discretion of the admin. If they want to give the user 0 capabilities, then they should be able to. The question is what the best way to do that is. If I were to look at yarn-site.xml and see <value></value> for the capabilities, I would implicitly think there are no capabilities given, since this is an empty list. However, this would actually give the default list of capabilities.

This is a bit surprising - is this the behavior expected from `Configuration.setStrings(key, "")` as well? The behavior I see is this:


```
final YarnConfiguration conf = new YarnConfiguration();
//set test.key1 and not test.key2
conf.setStrings("test.key1", "");
Assert.assertTrue(conf.getStrings("test.key1", "val1",
    "val2") == null);
Assert.assertEquals(2, conf.getStrings("test.key2", "val1", "val2")
    .length);
```

▼  [Jason Darrell Lowe](#) added a comment - 11/Oct/17 21:24

I suspect the behavior difference stems from the different handling of properties loaded from site XML files vs. programmatically set properties. The former are treated as resources while the latter are set in the property and overlay collections directly. When loading resources it ignores null values for properties unless `setAllowNullValueProperties` is set, which nothing but test code does. I don't think it's safe to change that behavior at this point since it's always behaved that way. Configuration is one of those "everybody uses it and has learned to live with its bugs/quirks" things. Changing its existing behavior is likely to break some downstream project, e.g.: if we were to make final fields *really* final even if programmatically set.


▼  [Sidharta Seethana](#) added a comment - 11/Oct/17 22:49

Agreed, we shouldn't be changing that behavior at this point. I am ok with the "NONE" approach. With respect to mixing "NONE" and other capabilities, how about moving capability configuration handling to the initialization function in `DockerLinuxContainerRuntime` and throw an exception there in case they are mixed? It should probably have been in that function in the first place - all other config handling is in that function.

▼  [Eric Badger](#) added a comment - 13/Oct/17 22:34


With respect to mixing "NONE" and other capabilities, how about moving capability configuration handling to the initialization function in `DockerLinuxContainerRuntime` and throw an exception there in case they are mixed? It should probably have been in that function in the first place - all other config handling is in that function.

Hey [sidharta-s](#), uploading a patch that moves the capability setting into the `initialize()` method. I also allowed both "none" and "NONE" and updated the unit test.

▼  Sidharta Seethana added a comment - 13/Oct/17 23:21

ebadger, thanks for the updated patch. I'll wait for jenkins to come back before looking at the patch in more detail. One thing though : I see negative/failure tests in 'testDockerCapabilities' ; do you mind adding a test to ensure that using just "none" (or "NONE") leads to an empty capability list on container launch?

jlowe, If you want to review the patch instead, that is fine too.

▼  Hadoop QA added a comment - 14/Oct/17 02:03

 -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 19s	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 1 new or modified test files.
trunk Compile Tests			
0	mvndep	1m 2s	Maven dependency ordering for branch
+1	mvninstall	30m 26s	trunk passed
+1	compile	18m 23s	trunk passed
+1	checkstyle	2m 32s	trunk passed
+1	mvnsite	3m 34s	trunk passed
+1	shadedclient	22m 35s	branch has no errors when building and testing our client artifacts.
+1	findbugs	5m 0s	trunk passed
+1	javadoc	2m 28s	trunk passed
Patch Compile Tests			
0	mvndep	0m 35s	Maven dependency ordering for patch
-1	mvninstall	1m 24s	hadoop-yarn-common in the patch failed.
-1	mvninstall	1m 14s	hadoop-yarn-server-nodemanager in the patch failed.
+1	compile	13m 3s	the patch passed
+1	javac	13m 3s	the patch passed
-0	checkstyle	1m 56s	hadoop-yarn-project/hadoop-yarn: The patch generated 7 new + 18 unchanged - 0 fixed = 25 total (was 18)
+1	mvnsite	3m 8s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	xml	0m 4s	The patch has no ill-formed XML file.
+1	shadedclient	18m 13s	patch has no errors when building and testing our client artifacts.
+1	findbugs	5m 54s	the patch passed
+1	javadoc	2m 42s	the patch passed
Other Tests			
+1	unit	5m 42s	hadoop-yarn-common in the patch passed.
-1	unit	21m 42s	hadoop-yarn-server-nodemanager in the patch failed.
+1	asflicense	1m 43s	The patch does not generate ASF License warnings.
		167m 11s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.nodemanager.scheduler.TestDistributedScheduler
	hadoop.yarn.server.nodemanager.containermanager.scheduler.TestContainerSchedulerQueueing
Timed out junit tests	org.apache.hadoop.yarn.server.nodemanager.containermanager.TestContainerManager

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:0de40f0
JIRA Issue	YARN-7286
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12892168/YARN-7286.004.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient xml findbugs checkstyle
uname	Linux 9487e441c5fe 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/hadoop/patchprocess/precommit/personality/provided.sh
git revision	trunk / 3fb4718
Default Java	1.8.0_144
findbugs	v3.1.0-RC1
mvninstall	https://builds.apache.org/job/PreCommit-YARN-Build/17926/artifact/patchprocess/patch-mvninstall-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-common.txt
mvninstall	https://builds.apache.org/job/PreCommit-YARN-Build/17926/artifact/patchprocess/patch-mvninstall-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/17926/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/17926/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/17926/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17926/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

This message was automatically generated.

Eric Badger

added a comment - 16/Oct/17 13:42

I see negative/failure tests in 'testDockerCapabilities' ; do you mind adding a test to ensure that using just "none" (or "NONE") leads to an empty capability list on container launch?

Thanks for pointing this out, [sidharta-s](#)! Attaching a new patch that adds test cases for "none" and "NONE".

Hadoop QA

added a comment - 16/Oct/17 13:54

-1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 0s	Docker mode activated.
-1	docker	3m 14s	Docker failed to build yetus/hadoop:0de40f0.

Subsystem	Report/Notes
JIRA Issue	YARN-7286
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12892383/YARN-7286.005.patch
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17954/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

This message was automatically generated.

Eric Badger

added a comment - 16/Oct/17 14:01

Hadoop QA added a comment - 16/Oct/17 21:16

-1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 16s	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 1 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 44s	Maven dependency ordering for branch
+1	mvninstall	13m 35s	trunk passed
+1	compile	9m 54s	trunk passed
+1	checkstyle	1m 0s	trunk passed
+1	mvnsite	1m 16s	trunk passed
+1	shadedclient	12m 5s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 10s	trunk passed
+1	javadoc	1m 8s	trunk passed
			Patch Compile Tests
0	mvndep	0m 10s	Maven dependency ordering for patch
+1	mvninstall	0m 59s	the patch passed
+1	compile	6m 19s	the patch passed
+1	javac	6m 19s	the patch passed
-0	checkstyle	0m 56s	hadoop-yarn-project/hadoop-yarn: The patch generated 1 new + 18 unchanged - 0 fixed = 19 total (was 18)
+1	mvnsite	1m 16s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	xml	0m 1s	The patch has no ill-formed XML file.
+1	shadedclient	10m 22s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 28s	the patch passed
+1	javadoc	1m 9s	the patch passed
			Other Tests
+1	unit	2m 42s	hadoop-yarn-common in the patch passed.
-1	unit	16m 50s	hadoop-yarn-server-nodemanager in the patch failed.
+1	asflicense	0m 30s	The patch does not generate ASF License warnings.
		91m 24s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.nodemanager.scheduler.TestDistributedScheduler

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:0de40f0
JIRA Issue	YARN-7286
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12892383/YARN-7286.005.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient xml findbugs checkstyle

uname	Linux 49be850a9796 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 / 21bc855
Default Java	1.8.0_144
findbugs	v3.1.0-RC1
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/17959/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/17959/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/17959/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17959/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

This message was automatically generated.

Eric Badger added a comment - 16/Oct/17 21:40

Attaching new patch to fix checkstyle

Hadoop QA added a comment - 16/Oct/17 23:51

-1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 21s	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 1 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 55s	Maven dependency ordering for branch
+1	mvninstall	12m 41s	trunk passed
+1	compile	9m 20s	trunk passed
+1	checkstyle	0m 49s	trunk passed
+1	mvnsite	1m 5s	trunk passed
+1	shadedclient	10m 48s	branch has no errors when building and testing our client artifacts.
+1	findbugs	1m 54s	trunk passed
+1	javadoc	1m 2s	trunk passed
			Patch Compile Tests
0	mvndep	0m 11s	Maven dependency ordering for patch
+1	mvninstall	0m 54s	the patch passed
+1	compile	5m 30s	the patch passed
+1	javac	5m 30s	the patch passed
+1	checkstyle	0m 50s	the patch passed
+1	mvnsite	1m 4s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	xml	0m 2s	The patch has no ill-formed XML file.
+1	shadedclient	9m 10s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 21s	the patch passed
+1	javadoc	0m 56s	the patch passed

Other Tests			
+1	unit	2m 43s	hadoop-yarn-common in the patch passed.
-1	unit	16m 7s	hadoop-yarn-server-nodemanager in the patch failed.
+1	asflicense	0m 23s	The patch does not generate ASF License warnings.
		84m 57s	

Reason	Tests
Failed junit tests	hadoop.yarn.server.nodemanager.scheduler.TestDistributedScheduler

Subsystem	Report/Notes
Docker	Image:yetus/hadoop:0de40f0
JIRA Issue	YARN-7286
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12892476/YARN-7286.006.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient xml findbugs checkstyle
uname	Linux 6926839372a6 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 / 4540ffd
Default Java	1.8.0_144
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-YARN-Build/17971/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/17971/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17971/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

This message was automatically generated.

Eric Badger added a comment - 17/Oct/17 14:15

The test failure is unrelated and is tracked by [YARN-7299](#)

Jason Darrell Lowe added a comment - 17/Oct/17 18:53

Thanks for updating the patch!

Copy-n-paste error on the assert message here. It doesn't match the test case.

```
conf.setStrings(YarnConfiguration.NM_DOCKER_CONTAINER_CAPABILITIES,
    "CHOWN", "DAC_OVERRIDE", "NONE");
runtime.initialize(conf);
Assert.fail("Initialize didn't fail with invalid capabilities " +
    "'none', 'CHOWN', 'DAC_OVERRIDE'");
```

There's no need to surround unit test code with a try/catch block and explicitly fail when we do not expect it to throw. The test will just fail naturally if it does throw.

Eric Badger added a comment - 17/Oct/17 21:49

Thanks for the review, [jlowe](#)! Uploading a new patch that fixes the copy and paste error and gets rid of the unnecessary try/catch blocks


Hadoop QA added a comment - 17/Oct/17 22:09

-1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 0s	Docker mode activated.
-1	docker	0m 15s	Docker failed to build yetus/hadoop:0de40f0.

Subsystem	Report/Notes
JIRA Issue	YARN-7286
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12892691/YARN-7286.007.patch
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/17991/console
Powered by	Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org

This message was automatically generated.

▼  Hadoop QA added a comment - 30/Oct/17 19:20

 -1 overall

Vote	Subsystem	Runtime	Comment
0	reexec	0m 16s	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 1 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 35s	Maven dependency ordering for branch
+1	mvninstall	35m 55s	trunk passed
+1	compile	14m 6s	trunk passed
+1	checkstyle	2m 2s	trunk passed
+1	mvnsite	3m 41s	trunk passed
+1	shadedclient	22m 32s	branch has no errors when building and testing our client artifacts.
+1	findbugs	5m 19s	trunk passed
+1	javadoc	2m 43s	trunk passed
			Patch Compile Tests
0	mvndep	0m 28s	Maven dependency ordering for patch
-1	mvninstall	1m 14s	hadoop-yarn-server-nodemanager in the patch failed.
-1	compile	4m 23s	hadoop-yarn in the patch failed.
-1	javac	4m 23s	hadoop-yarn in the patch failed.
+1	checkstyle	1m 44s	the patch passed
-1	mvnsite	1m 23s	hadoop-yarn-server-nodemanager in the patch failed.
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	xml	0m 4s	The patch has no ill-formed XML file.
-1	shadedclient	6m 37s	patch has errors when building and testing our client artifacts.
-1	findbugs	0m 37s	hadoop-yarn-server-nodemanager in the patch failed.
+1	javadoc	2m 17s	the patch passed
			Other Tests
+1	unit	5m 28s	hadoop-yarn-common in the patch passed.
-1	unit	1m 50s	hadoop-yarn-server-nodemanager in the patch failed.
-1	asflicense	0m 44s	The patch generated 3 ASF License warnings.
		117m 46s	

Subsystem	Report/Notes
Docker	Client=17.05.0-ce Server=17.05.0-ce Image:yetus/hadoop:5b98639
JIRA Issue	YARN-7286
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12892691/YARN-7286.007.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient xml findbugs checkstyle
uname	Linux 909ef667415e 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	trunk / e4878a5
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_131
findbugs	v3.1.0-RC1
mvninstall	https://builds.apache.org/job/PreCommit-YARN-Build/18243/artifact/out/patch-mvninstall-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
compile	https://builds.apache.org/job/PreCommit-YARN-Build/18243/artifact/out/patch-compile-hadoop-yarn-project_hadoop-yarn.txt
javac	https://builds.apache.org/job/PreCommit-YARN-Build/18243/artifact/out/patch-compile-hadoop-yarn-project_hadoop-yarn.txt
mvnsite	https://builds.apache.org/job/PreCommit-YARN-Build/18243/artifact/out/patch-mvnsite-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
findbugs	https://builds.apache.org/job/PreCommit-YARN-Build/18243/artifact/out/patch-findbugs-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
unit	https://builds.apache.org/job/PreCommit-YARN-Build/18243/artifact/out/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/18243/testReport/
asflicense	https://builds.apache.org/job/PreCommit-YARN-Build/18243/artifact/out/patch-asflicense-problems.txt
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/18243/console
Powered by	Apache Yetus 0.7.0-SNAPSHOT http://yetus.apache.org

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Eric Badger added a comment - 01/Nov/17 21:34

Rebasing the patch to trunk

Hadoop QA added a comment - 01/Nov/17 23:35

-1 overall


Vote	Subsystem	Runtime	Comment
0	reexec	0m 10s	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 1 new or modified test files.
			trunk Compile Tests
0	mvndep	0m 10s	Maven dependency ordering for branch
+1	mvninstall	16m 5s	trunk passed
+1	compile	6m 23s	trunk passed
+1	checkstyle	0m 57s	trunk passed

+1	mvnsite	1m 18s	trunk passed
+1	shadedclient	12m 6s	branch has no errors when building and testing our client artifacts.
+1	findbugs	2m 14s	trunk passed
+1	javadoc	1m 9s	trunk passed
Patch Compile Tests			
0	mvndep	0m 10s	Maven dependency ordering for patch
+1	mvninstall	1m 14s	the patch passed
+1	compile	6m 41s	the patch passed
+1	javac	6m 41s	the patch passed
+1	checkstyle	0m 58s	the patch passed
+1	mvnsite	1m 13s	the patch passed
+1	whitespace	0m 0s	The patch has no whitespace issues.
+1	xml	0m 1s	The patch has no ill-formed XML file.
+1	shadedclient	10m 49s	patch has no errors when building and testing our client artifacts.
+1	findbugs	2m 25s	the patch passed
+1	javadoc	1m 6s	the patch passed
Other Tests			
+1	unit	2m 40s	hadoop-yarn-common in the patch passed.
-1	unit	16m 17s	hadoop-yarn-server-nodemanager in the patch failed.
+1	asflicense	0m 28s	The patch does not generate ASF License warnings.
		83m 55s	


Reason	Tests
Failed junit tests	TEST-cetest

Subsystem	Report/Notes
Docker	Client=17.05.0-ce Server=17.05.0-ce Image:yetus/hadoop:5b98639
JIRA Issue	YARN-7286
JIRA Patch URL	https://issues.apache.org/jira/secure/attachment/12895285/YARN-7286.008.patch
Optional Tests	asflicense compile javac javadoc mvninstall mvnsite unit shadedclient xml findbugs checkstyle
uname	Linux c32242a86090 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	trunk / d57dba9
maven	version: Apache Maven 3.3.9
Default Java	1.8.0_131
findbugs	v3.1.0-RC1
unit	https://builds.apache.org/job/PreCommit-YARN-Build/18292/artifact/out/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/18292/testReport/
modules	C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager U: hadoop-yarn-project/hadoop-yarn
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/18292/console
Powered by	Apache Yetus 0.7.0-SNAPSHOT http://yetus.apache.org

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▼  [Eric Badger](#) added a comment - 02/Nov/17 13:57

Precommit failure is unrelated and was fixed by [YARN-7412](#) right after HadoopQA ran yesterday

▼  [Jason Darrell Lowe](#) added a comment - 02/Nov/17 14:36


I agree the unit test failure is unrelated. I verified that `cetest` passes with the patch applied.

+1 for the latest patch. Committing this.


▼  [Jason Darrell Lowe](#) added a comment - 02/Nov/17 14:55

Thanks to Eric for the contribution and to shanekumpf@gmail.com, [vvasudev](#), and [sidharta-s](#) for additional review! I committed this to trunk, branch-3.0, and branch-2.

[asuresh subru](#) is this something you would like for branch-2.9?

▼  [Eric Badger](#) added a comment - 02/Nov/17 14:56

Thanks [jlowe](#)!

▼  [Arun Suresh](#) added a comment - 02/Nov/17 15:03


Just went thru the patch.

Given the small patch size and that this is a nice to have feature and does not look particularly intrusive - please go ahead and check this into branch-2.9

▼  [Hudson](#) added a comment - 02/Nov/17 15:30

SUCCESS: Integrated in Jenkins build Hadoop-trunk-Commit #13178 (See <https://builds.apache.org/job/Hadoop-trunk-Commit/13178/>) [YARN-7286](#). Add support for docker to have no capabilities. Contributed (jlowe: rev d00b6f7c1ff2d7569ae9efdc6823ebcfb86ef2d4)

- (edit) `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/DockerLinuxContainerRuntime.java`
- (edit) `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/TestDockerContainerRuntime.java`
- (edit) `hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/yarn-default.xml`

▼  [Jason Darrell Lowe](#) added a comment - 02/Nov/17 16:08

I committed this to branch-2.9 as well.

▼ People

Assignee:

 [Eric Badger](#)

Reporter:

 [Eric Badger](#)

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Created:

03/Oct/17 20:19

Updated:

02/May/18 22:34

Resolved:

02/Nov/17 14:55