



Add docker container runtime support to LinuxContainerExecutor

Details

Type:	Sub-task	Status:	RESOLVED
Priority:	Major	Resolution:	Fixed
Affects Version/s:	None	Fix Version/s:	2.8.0, 3.0.0-alpha1
Component/s:	yarn		
Labels:	<div>Docker</div>		
Target Version/s:	2.8.0		

Description

Create a new DockerContainerRuntime that implements support for docker containers via container-executor. LinuxContainerExecutor should default to current behavior when launching containers but switch to docker when requested.

Overview
===

The current mechanism of launching/signaling containers is moved to its own (default) container runtime. In order to use docker container runtime a couple of environment variables have to be set. This will have to be revisited when we have a first class client side API to specify different container types and associated parameters. Using 'pi' as an example and using a custom docker image, this is how you could use the docker container runtime (LinuxContainerExecutor must be in use and the docker daemon needs to be running) :

```
export YARN_EXAMPLES_JAR=./share/hadoop/mapreduce/hadoop-mapreduce-examples-*.jar
bin/yarn jar $YARN_EXAMPLES_JAR pi -
Dmapreduce.map.env="YARN_CONTAINER_RUNTIME_TYPE=docker,YARN_CONTAINER_RUNTIME_DOCKER_IMAGE=ashahab/hadoop-trunk" -
Dyarn.app.mapreduce.am.env="YARN_CONTAINER_RUNTIME_TYPE=docker,YARN_CONTAINER_RUNTIME_DOCKER_IMAGE=ashahab/hadoop-trunk" -
Dmapreduce.reduce.env="YARN_CONTAINER_RUNTIME_TYPE=docker,YARN_CONTAINER_RUNTIME_DOCKER_IMAGE=ashahab/hadoop-trunk" 4 1000
```

LinuxContainerExecutor can delegate to either runtime on a per container basis. If the docker container type is selected, LinuxContainerExecutor delegates to the DockerContainerRuntime which in turn uses docker support in the container-executor binary to launch/manage docker containers (see [YARN-3852](#)) .

Attachments

YARN-3853.001.patch	122 kB	09/Jul/15 21:55
YARN-3853.002.patch	122 kB	20/Jul/15 21:33

Issue Links

is blocked by

YARN-3851 Add support for container runtimes in YARN	RESOLVED
YARN-3852 Add docker container support to container-executor	RESOLVED

Activity

- [Sidharta Seethana](#) added a comment - 09/Jul/15 21:55
- Attaching a patch - I apologize for the size of the patch - given how the runtime mechanism used currently, it isn't trivial to split this patch up. Please note that the patch here depends on changes from [YARN-3853](#) .
- [Sidharta Seethana](#) added a comment - 09/Jul/15 21:59
- Updated the description to provide an overview of control flow.
- [Sidharta Seethana](#) added a comment - 09/Jul/15 22:10
- [vvasudev](#) , could you please review this as well (in conjunction with [YARN-3852](#)) ?
- [Hadoop QA](#) added a comment - 09/Jul/15 23:45

-1 overall

Vote	Subsystem	Runtime	Comment
0	pre-patch	18m 7s	Pre-patch trunk compilation is healthy.
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	tests included	0m 0s	The patch appears to include 3 new or modified test files.
+1	javac	7m 52s	There were no new javac warning messages.
+1	javadoc	9m 48s	There were no new javadoc warning messages.
+1	release audit	0m 22s	The applied patch does not increase the total number of release audit warnings.
-1	checkstyle	0m 49s	The applied patch generated 51 new checkstyle issues (total was 271, now 312).
+1	whitespace	0m 36s	The patch has no lines that end in whitespace.
+1	install	1m 20s	mvn install still works.
+1	eclipse:eclipse	0m 32s	The patch built with eclipse:eclipse.
+1	findbugs	1m 16s	The patch does not introduce any new Findbugs (version 3.0.0) warnings.
-1	yarn tests	6m 7s	Tests failed in hadoop-yarn-server-nodemanager.
		46m 55s	

Reason	Tests
Failed unit tests	hadoop.yarn.server.nodemanager.containermanager.localizer.TestResourceLocalizationService
	hadoop.yarn.server.nodemanager.containermanager.container.TestContainer
	hadoop.yarn.server.nodemanager.containermanager.logaggregation.TestLogAggregationService

Subsystem	Report/Notes
Patch URL	http://issues.apache.org/jira/secure/attachment/12744583/YARN-3853.001.patch
Optional Tests	javadoc javac unit findbugs checkstyle
git revision	trunk / f4ca530
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/8486/artifact/patchprocess/diffcheckstylehadoop-yarn-server-nodemanager.txt
hadoop-yarn-server-nodemanager test log	https://builds.apache.org/job/PreCommit-YARN-Build/8486/artifact/patchprocess/testrun_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/8486/testReport/
Java	1.7.0_55
uname	Linux asf908.gq1.ygridcore.net 3.13.0-36-lowlatency #63-Ubuntu SMP PREEMPT Wed Sep 3 21:56:12 UTC 2014 x86_64 x86_64 x86_64 GNU/Linux
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/8486/console

This message was automatically generated.

[Sidharta Seethana](#) added a comment - 10/Jul/15 00:07

The test failures are unrelated to this patch. A few of the checkstyle issues seem to be valid (e.g indentation). I'll fix those with the next iteration of the patch based on code-review feedback. Thanks

-Sidharta

[Varun Vasudev](#) added a comment - 17/Jul/15 22:24

Thanks for the patch [sidharta-s](#). One question -
Can you explain what the purpose of

```
whitelist.add(YarnConfiguration.NM_DOCKER_CONTAINER_EXECUTOR_IMAGE_NAME);
```

is?

Some feedback on the patch:

1. Can we rename the DefaultLinuxContainerRuntime to ProcessContainerRuntime and rename DockerLinuxContainerRuntime to DockerContainerRuntime - both are already in the nodemanager.containermanager.linux.runtime package so the Linux seems redundant and I think Process is better than Default.
2. In LinuxContainerExecutor

```
+
+ public LinuxContainerExecutor() {
+ }
+
+ // created primarily for testing
+ public LinuxContainerExecutor(LinuxContainerRuntime linuxContainerRuntime) {
+     this.linuxContainerRuntime = linuxContainerRuntime;
+ }
```

Maybe these should be protected? In addition, the VisibleForTesting annotation should be used

3. In LinuxContainerExecutor

```
-     containerSchedPriorityIsSet = true;
-     containerSchedPriorityAdjustment = conf
-         .getInt(YarnConfiguration.NM_CONTAINER_EXECUTOR_SCHED_PRIORITY,
-             YarnConfiguration.DEFAULT_NM_CONTAINER_EXECUTOR_SCHED_PRIORITY);
+     containerSchedPriorityIsSet = true;
+     containerSchedPriorityAdjustment = conf
+         .getInt(YarnConfiguration.NM_CONTAINER_EXECUTOR_SCHED_PRIORITY,
+             YarnConfiguration.DEFAULT_NM_CONTAINER_EXECUTOR_SCHED_PRIORITY);
- }
```

Looks like the formatting is messed up.

4. In LinuxContainerExecutor, we've removed some debug statements; we should put them back in

```
-     if (LOG.isDebugEnabled()) {
-         LOG.debug("Output from LinuxContainerExecutor's launchContainer follows:");
-         logOutput(shExec.getOutput());
-     }
```

and

```
-     if (LOG.isDebugEnabled()) {
-         LOG.debug("signalContainer: " + Arrays.toString(command));
-     }
```

5. In ContainerLaunch.java

```
@Override
+ public void whitelistedEnv(String key, String value) throws IOException {
+     lineWithLenCheck("@set ", key, "=", value);
+     errorCheck();
+ }
```

This code is exactly the same as the env() function. Maybe it should just call the env() function instead?

6. There are some unused imports in DockerLinuxContainerRuntime, DockerClient and TestDockerContainerRuntime

- ▼

Sidharta Seethana

added a comment - 20/Jul/15 21:25

vvasudev

, thanks for the review. Regarding the docker image env var being added to the whitelist, that doesn't belong here (it is DockerContainerExecutor specific which overrides the writeLaunchEnv function anyway). About missing debug statements - these are no longer necessary since PrivilegedOperationExecutor logs this information already (in debug mode). I'll fix the rest of the things you mention and upload a new patch.
- ▼

Sidharta Seethana

added a comment - 20/Jul/15 21:33

Uploading a new version of the patch based on code review feedback.
- ▼

Hadoop QA

added a comment - 20/Jul/15 22:28

✖


-1 overall

Vote	Subsystem	Runtime	Comment
0	pre-patch	17m 37s	Pre-patch trunk compilation is healthy.
+1	@author	0m 0s	The patch does not contain any @author tags.
+1	tests included	0m 0s	The patch appears to include 3 new or modified test files.

+1	javac	8m 30s	There were no new javac warning messages.
+1	javadoc	10m 21s	There were no new javadoc warning messages.
+1	release audit	0m 21s	The applied patch does not increase the total number of release audit warnings.
-1	checkstyle	0m 44s	The applied patch generated 35 new checkstyle issues (total was 270, now 293).
+1	whitespace	0m 35s	The patch has no lines that end in whitespace.
+1	install	1m 29s	mvn install still works.
+1	eclipse:eclipse	0m 34s	The patch built with eclipse:eclipse.
+1	findbugs	1m 20s	The patch does not introduce any new Findbugs (version 3.0.0) warnings.
+1	yarn tests	6m 14s	Tests passed in hadoop-yarn-server-nodemanager.
		47m 50s	

Subsystem	Report/Notes
Patch URL	http://issues.apache.org/jira/secure/attachment/12746188/YARN-3853.002.patch
Optional Tests	javadoc javac unit findbugs checkstyle
git revision	trunk / e4f7562
checkstyle	https://builds.apache.org/job/PreCommit-YARN-Build/8589/artifact/patchprocess/diffcheckstylehadoop-yarn-server-nodemanager.txt
hadoop-yarn-server-nodemanager test log	https://builds.apache.org/job/PreCommit-YARN-Build/8589/artifact/patchprocess/testrun_hadoop-yarn-server-nodemanager.txt
Test Results	https://builds.apache.org/job/PreCommit-YARN-Build/8589/testReport/
Java	1.7.0_55
uname	Linux asf907.gq1.ygridcore.net 3.13.0-36-lowlatency #63-Ubuntu SMP PREEMPT Wed Sep 3 21:56:12 UTC 2014 x86_64 x86_64 x86_64 GNU/Linux
Console output	https://builds.apache.org/job/PreCommit-YARN-Build/8589/console


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▼  [Varun Vasudev](#) added a comment - 24/Jul/15 18:07


+1. I'll commit this on Monday if no one objects. One question - can you please clarify why we're using "net=host"? Thanks!

▼  [Sidharta Seethana](#) added a comment - 24/Jul/15 18:12

Thanks, [vvasudev](#) . Short of running a full fledged SDN for containers, not allowing for net=host would break a lot of applications (the one listed here too). The local private IPs that docker assigns by default are not visible externally and all traffic is NATed. In the future, if/when we support mechanisms to use SDNs, we could revisit this default.

▼  [Varun Vasudev](#) added a comment - 27/Jul/15 20:33


Committed to trunk and branch-2. Thanks [sidharta-s](#)!

▼  [Hudson](#) added a comment - 27/Jul/15 21:34

SUCCESS: Integrated in Hadoop-trunk-Commit #8228 (See <https://builds.apache.org/job/Hadoop-trunk-Commit/8228/>) [YARN-3853](#). Add docker container runtime support to LinuxContainerExecutor. Contributed by Sidharta Seethana. (vvasudev: rev 3e6fce91a471b4a5099de109582e7c6417e8a822)

- 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
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntimeContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntimeConstants.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/DockerContainerExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/DefaultContainerExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerStartContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/PrivilegedOperation.java

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/ContainerExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/DelegatingLinuxContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerCommand.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/resources/CGroupsHandler.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/DefaultLinuxContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/LinuxContainerRuntimeConstants.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerClient.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/PrivilegedOperationExecutor.java
- hadoop-yarn-project/CHANGES.txt
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerLivenessContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/LinuxContainerExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerSignalContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/TestLinuxContainerExecutorWithMocks.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/LinuxContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/PrivilegedOperationException.java
- 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
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/launcher/ContainerLaunch.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerRunCommand.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerExecutionException.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/resources/CGroupsHandlerImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerLoadCommand.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/TestPrivilegedOperationExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerReacquisitionContext.java

▼  Hudson added a comment - 28/Jul/15 10:43

FAILURE: Integrated in Hadoop-Yarn-trunk-Java8 #270 (See <https://builds.apache.org/job/Hadoop-Yarn-trunk-Java8/270/>)
YARN-3853. Add docker container runtime support to LinuxContainerExecutor. Contributed by Sidharta Seethana. (vvasudev: rev 3e6fce91a471b4a5099de109582e7c6417e8a822)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerLivenessContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntimeContext.java
- hadoop-yarn-project/CHANGES.txt
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/DelegatingLinuxContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerClient.java
- 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
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerCommand.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/PrivilegedOperationException.java

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerExecutionException.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerSignalContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/LinuxContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerStartContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/DefaultLinuxContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/PrivilegedOperationExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntimeConstants.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerLoadCommand.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/TestLinuxContainerExecutorWithMocks.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/LinuxContainerExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerReacquisitionContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/LinuxContainerRuntimeConstants.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/resources/CGroupsHandlerImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/PrivilegedOperation.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/launcher/ContainerLaunch.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/TestPrivilegedOperationExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/DockerContainerExecutor.java
- 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
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/DefaultContainerExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/ContainerExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/resources/CGroupsHandler.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerRunCommand.java


 **Hudson** added a comment - 28/Jul/15 10:46

FAILURE: Integrated in Hadoop-Yarn-trunk #1000 (See <https://builds.apache.org/job/Hadoop-Yarn-trunk/1000/>)

YARN-3853. Add docker container runtime support to LinuxContainerExecutor. Contributed by Sidharta Seethana. (vvasudev: rev 3e6fce91a471b4a5099de109582e7c6417e8a822)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/resources/CGroupsHandler.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerClient.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntime.java
- 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
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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerStartContext.java
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- hadoop-yarn-project/CHANGES.txt
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▼  Hudson added a comment - 28/Jul/15 12:49

FAILURE: Integrated in Hadoop-Hdfs-trunk #2197 (See <https://builds.apache.org/job/Hadoop-Hdfs-trunk/2197/>)

[YARN-3853](#). Add docker container runtime support to LinuxContainerExecutor. Contributed by Sidharta Seethana. (vvasudev: rev 3e6fce91a471b4a5099de109582e7c6417e8a822)

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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/LinuxContainerRuntimeConstants.java


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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/DockerContainerExecutor.java
- hadoop-yarn-project/CHANGES.txt
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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerSignalContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/LinuxContainerExecutor.java
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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerLoadCommand.java

👤  Hudson added a comment - 28/Jul/15 14:28

FAILURE: Integrated in Hadoop-Hdfs-trunk-Java8 #259 (See <https://builds.apache.org/job/Hadoop-Hdfs-trunk-Java8/259/>)
 YARN-3853. Add docker container runtime support to LinuxContainerExecutor. Contributed by Sidharta Seethana. (vvasudev: rev 3e6fce91a471b4a5099de109582e7c6417e8a822)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/ContainerExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerClient.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/LinuxContainerExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/PrivilegedOperationException.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/LinuxContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/TestPrivilegedOperationExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/launcher/ContainerLaunch.java


- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerStartContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/DefaultContainerExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/DefaultLinuxContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerLivenessContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntimeConstants.java
- 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
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerRunCommand.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerSignalContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerExecutionException.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/LinuxContainerRuntimeConstants.java
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- hadoop-yarn-project/CHANGES.txt
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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerLoadCommand.java
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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/TestLinuxContainerExecutorWithMocks.java
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👤  Hudson added a comment - 28/Jul/15 15:31

SUCCESS: Integrated in Hadoop-Mapreduce-trunk-Java8 #267 (See <https://builds.apache.org/job/Hadoop-Mapreduce-trunk-Java8/267/>)
[YARN-3853](#). Add docker container runtime support to LinuxContainerExecutor. Contributed by Sidharta Seethana. (vvasudev: rev 3e6fce91a471b4a5099de109582e7c6417e8a822)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/TestPrivilegedOperationExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/LinuxContainerRuntimeConstants.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/ContainerExecutor.java
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- hadoop-yarn-project/CHANGES.txt
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/DefaultLinuxContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerLivenessContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerReacquisitionContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/resources/CGroupsHandler.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/DockerContainerExecutor.java

 **Hudson** added a comment - 28/Jul/15 15:33


FAILURE: Integrated in Hadoop-Mapreduce-trunk #2216 (See <https://builds.apache.org/job/Hadoop-Mapreduce-trunk/2216/>)
YARN-3853. Add docker container runtime support to LinuxContainerExecutor. Contributed by Sidharta Seethana. (vvasudev: rev 3e6fce91a471b4a5099de109582e7c6417e8a822)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/PrivilegedOperation.java
- 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
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/TestLinuxContainerExecutorWithMocks.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/PrivilegedOperationExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerLivenessContext.java
- hadoop-yarn-project/CHANGES.txt
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/LinuxContainerRuntime.java
- 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
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/LinuxContainerRuntimeConstants.java

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerExecutionException.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/DelegatingLinuxContainerRuntime.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntimeConstants.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/resources/CGroupsHandler.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/DockerContainerExecutor.java
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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/docker/DockerCommand.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/privileged/TestPrivilegedOperationExecutor.java
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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntimeContext.java
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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/linux/runtime/DefaultLinuxContainerRuntime.java
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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerReacquisitionContext.java
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- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerSignalContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/executor/ContainerStartContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/DefaultContainerExecutor.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/runtime/ContainerRuntime.java

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 Sidharta Seethana

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Created:

25/Jun/15 21:37

Updated:

02/May/18 22:34

Resolved:

27/Jul/15 20:33

