

Item 139

git_comments:

git_commits:

1. **summary:** YARN-1447. Common PB type definitions for container resizing. (Wangda Tan via Sandy Ryza)
message: YARN-1447. Common PB type definitions for container resizing. (Wangda Tan via Sandy Ryza) git-svn-id: <https://svn.apache.org/repos/asf/hadoop/common/trunk@1548318> 13f79535-47bb-0310-9956-ffa450edef68

github_issues:

github_issues_comments:

github_pulls:

github_pulls_comments:

github_pulls_reviews:

jira_issues:

1. **summary:** Common PB type definitions for container resizing
description: As described in YARN-1197, we need add some common PB types for container resource change, like ResourceChangeContext, etc. These types will be both used by RM/NM protocols
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label: code-design
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jira_issues_comments:

1. Attached patch for review
2. {color:red}-1 overall{color}. Here are the results of testing the latest attachment <http://issues.apache.org/jira/secure/attachment/12615785/yarn-1447.1.patch> against trunk revision . {color:green}+1 @author{color}. The patch does not contain any @author tags. {color:green}+1 tests included{color}. The patch appears to include 2 new or modified test files. {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javadoc{color}. The javadoc tool did not generate any warning messages. {color:green}+1 eclipse:eclipse{color}. The patch built with eclipse:eclipse. {color:red}-1 findbugs{color}. The patch appears to introduce 5 new Findbugs (version 1.3.9) warnings. {color:red}-1 release audit{color}. The applied patch generated 2 release audit warnings. {color:green}+1 core tests{color}. The patch passed unit tests in hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common. {color:green}+1 contrib tests{color}. The patch passed contrib unit tests. Test results: <https://builds.apache.org/job/PreCommit-YARN-Build/2562/testReport/> Release audit warnings: <https://builds.apache.org/job/PreCommit-YARN-Build/2562/artifact/trunk/patchprocess/patchReleaseAuditProblems.txt> Findbugs warnings: <https://builds.apache.org/job/PreCommit-YARN-Build/2562/artifact/trunk/patchprocess/newPatchFindbugsWarningshadoop-yarn-api.html> Findbugs warnings: <https://builds.apache.org/job/PreCommit-YARN-Build/2562/artifact/trunk/patchprocess/newPatchFindbugsWarningshadoop-yarn-common.html> Console output: <https://builds.apache.org/job/PreCommit-YARN-Build/2562/console> This message is automatically generated.
3. Thanks Wangda. Some comments: The new files are missing apache license headers The word "Context" in ResourceChangeContext and ResourceIncreaseContext isn't very informative. Can we instead call them ContainerResourceChange and ContainerResourceIncrease? (Container?)ResourceIncrease(Context?) sounds like a kind of (Container?)ResourceChange(Context?), when in fact the former wraps the latter with additional information. This seems a little confusing to me. Thinking aloud, the design uses ResourceChange for four things: sending an increase request from the AM to the RM, sending an increase allocation from the RM to the AM, sending an increase from the AM to the NM, and sending a decrease from the AM to the NM. I'm also worried that we might want to later add additional information to an increase request that wouldn't make sense in the other contexts. I'm wondering whether we should get rid of ResourceChange entirely and add in a ResourceIncreaseRequest proto? We would then have: * AM->RM increase request: ContainerResourceIncreaseRequest, which includes a ContainerId and a Resource. * RM->AM increase allocation: ContainerResourceIncrease, which includes a ContainerId, a Resource, and a Token * AM->NM increase: ContainerResourceIncrease, as above. * AM->NM decrease: ContainerResourceDecrease, which includes a ContainerId and a Resource. Thoughts? Sorry to change things up at this point, but as we won't be able to modify this in the future, I think it's worth putting in the time to get it right on the first try. {code} + Assert.assertTrue(contextRecover.getExistingContainerId().equals(containerId)); {code} Can use assertEquals here. This applies to a few other places as well.
4. Thanks your review, I agree with your idea, the additional "Context" not bring any more information, and flatten such objects are easier for us to add more information. And I think for AM->NM increase, we don't need ContainerResourceIncrease, just a ContainerToken will be enough. Like what community did in StartContainerRequest, the ContainerId and Resource are already included in ContainerToken. Agree? I'll change code cause warnings like findbugs and license and upload a new patch later. And please let me know if you've any other ideas :)
5. bq. And I think for AM->NM increase, we don't need ContainerResourceIncrease, just a ContainerToken will be enough. Like what community did in StartContainerRequest, the ContainerId and Resource are already included in ContainerToken. Agree? Makes sense to me.
6. Attached updated patch according to [~sandy]r's comments.
7. {color:green}+1 overall{color}. Here are the results of testing the latest attachment <http://issues.apache.org/jira/secure/attachment/12616427/yarn-1447.2.patch> against trunk revision . {color:green}+1 @author{color}. The patch does not contain any @author tags. {color:green}+1 tests

included{color}. The patch appears to include 3 new or modified test files. {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javadoc{color}. The javadoc tool did not generate any warning messages. {color:green}+1 eclipse:eclipse{color}. The patch built with eclipse:eclipse. {color:green}+1 findbugs{color}. The patch does not introduce any new Findbugs (version 1.3.9) warnings. {color:green}+1 release audit{color}. The applied patch does not increase the total number of release audit warnings. {color:green}+1 core tests{color}. The patch passed unit tests in hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common. {color:green}+1 contrib tests{color}. The patch passed contrib unit tests. Test results: <https://builds.apache.org/job/PreCommit-YARN-Build/2565//testReport/> Console output: <https://builds.apache.org/job/PreCommit-YARN-Build/2565//console> This message is automatically generated.

8. **body:** Thanks Wangda. The proto definitions look good to me now. Just some stylistic comments on the patch:
{code} +abstract public class ContainerResourceDecrease { {code} "public" should come before "abstract". Also applies to a couple other places. {code} + * Used by AM to ask NM reduce size of a specified container {code} Better to spell it out - Used by application masters to as NodeManagers to reduce the size of a specified container. The same applies to a few different places. {code} + if ((getContainerId() == null) ^ (ctx.getContainerId() == null)) { {code} It's more traditional to use "||" which can short-circuit, than "^". Applies to a couple other places as well. {code} + ContainerResourceIncreaseRequestProto proto = ((ContainerResourceIncreaseRequestPBImpl)context).getProto(); + ContainerResourceIncreaseRequest contextRecover = new ContainerResourceIncreaseRequestPBImpl(proto); {code} Way over 80 characters.
label: code-design
9. Thanks Sandy's suggestions, attached updated patch
10. {color:red}-1 overall{color}. Here are the results of testing the latest attachment
<http://issues.apache.org/jira/secure/attachment/12616771/yarn-1447.3.patch> against trunk revision .
{color:green}+1 @author{color}. The patch does not contain any @author tags. {color:green}+1 tests included{color}. The patch appears to include 3 new or modified test files. {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javadoc{color}. The javadoc tool did not generate any warning messages. {color:green}+1 eclipse:eclipse{color}. The patch built with eclipse:eclipse. {color:red}-1 findbugs{color}. The patch appears to introduce 2 new Findbugs (version 1.3.9) warnings. {color:green}+1 release audit{color}. The applied patch does not increase the total number of release audit warnings. {color:green}+1 core tests{color}. The patch passed unit tests in hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common. {color:green}+1 contrib tests{color}. The patch passed contrib unit tests. Test results: <https://builds.apache.org/job/PreCommit-YARN-Build/2585//testReport/> Findbugs warnings: <https://builds.apache.org/job/PreCommit-YARN-Build/2585//artifact/trunk/patchprocess/newPatchFindbugsWarningshadoop-yarn-api.html> Console output: <https://builds.apache.org/job/PreCommit-YARN-Build/2585//console> This message is automatically generated.
11. {color:red}-1 overall{color}. Here are the results of testing the latest attachment
<http://issues.apache.org/jira/secure/attachment/12616776/yarn-1447.4.patch> against trunk revision .
{color:green}+1 @author{color}. The patch does not contain any @author tags. {color:green}+1 tests included{color}. The patch appears to include 3 new or modified test files. {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javadoc{color}. The javadoc tool did not generate any warning messages. {color:green}+1 eclipse:eclipse{color}. The patch built with eclipse:eclipse. {color:red}-1 findbugs{color}. The patch appears to introduce 4 new Findbugs (version 1.3.9) warnings. {color:green}+1 release audit{color}. The applied patch does not increase the total number of release audit warnings. {color:green}+1 core tests{color}. The patch passed unit tests in hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common. {color:green}+1 contrib tests{color}. The patch passed contrib unit tests. Test results: <https://builds.apache.org/job/PreCommit-YARN-Build/2586//testReport/> Findbugs warnings: <https://builds.apache.org/job/PreCommit-YARN-Build/2586//artifact/trunk/patchprocess/newPatchFindbugsWarningshadoop-yarn-api.html> Console output: <https://builds.apache.org/job/PreCommit-YARN-Build/2586//console> This message is automatically generated.
12. +1 after findbugs fixes
13. Thanks again, attached patch after fixed findbugs.
14. {color:green}+1 overall{color}. Here are the results of testing the latest attachment
<http://issues.apache.org/jira/secure/attachment/12616891/yarn-1447.5.patch> against trunk revision .
{color:green}+1 @author{color}. The patch does not contain any @author tags. {color:green}+1 tests included{color}. The patch appears to include 3 new or modified test files. {color:green}+1 javac{color}. The applied patch does not increase the total number of javac compiler warnings. {color:green}+1 javadoc{color}. The javadoc tool did not generate any warning messages. {color:green}+1 eclipse:eclipse{color}. The patch built with eclipse:eclipse. {color:green}+1 findbugs{color}. The patch does not introduce any new Findbugs (version 1.3.9) warnings. {color:green}+1 release audit{color}. The applied patch does not increase the total number of release audit warnings. {color:green}+1 core tests{color}. The patch passed unit tests in hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common. {color:green}+1 contrib tests{color}. The patch passed contrib unit tests. Test results: <https://builds.apache.org/job/PreCommit-YARN-Build/2586//testReport/>

Build/2591//testReport/ Console output: <https://builds.apache.org/job/PreCommit-YARN-Build/2591//console> This message is automatically generated.

15. +1. Will commit this tomorrow if there are no objections.
16. SUCCESS: Integrated in Hadoop-trunk-Commit #4840 (See [<https://builds.apache.org/job/Hadoop-trunk-Commit/4840/>]) YARN-1447: Forgot to add new files (sandy: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1548320>) * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceDecrease.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceIncrease.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceIncreaseRequest.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/java/org/apache/hadoop/yarn/api/records/impl/pb/ContainerResourceDecreasePBImpl.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/java/org/apache/hadoop/yarn/api/records/impl/pb/ContainerResourceIncreasePBImpl.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/java/org/apache/hadoop/yarn/api/records/impl/pb/ContainerResourceIncreaseRequestPBImpl.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/test/java/org/apache/hadoop/yarn/api/TestContainerResourceDecrease.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/test/java/org/apache/hadoop/yarn/api/TestContainerResourceIncrease.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/test/java/org/apache/hadoop/yarn/api/TestContainerResourceIncreaseRequest.java YARN-1447. Common PB type definitions for container resizing. (Wangda Tan via Sandy Ryza) (sandy: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1548318>) * /hadoop/common/trunk/hadoop-yarn-project/CHANGES.txt * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/proto/yarn_protos.proto
17. I just committed this. Thanks Wangda.
18. FAILURE: Integrated in Hadoop-Yarn-trunk #413 (See [<https://builds.apache.org/job/Hadoop-Yarn-trunk/413/>]) YARN-1447: Forgot to add new files (sandy: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1548320>) * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceDecrease.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceIncrease.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceIncreaseRequest.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/java/org/apache/hadoop/yarn/api/records/impl/pb/ContainerResourceDecreasePBImpl.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/java/org/apache/hadoop/yarn/api/records/impl/pb/ContainerResourceIncreasePBImpl.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/java/org/apache/hadoop/yarn/api/records/impl/pb/ContainerResourceIncreaseRequestPBImpl.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/test/java/org/apache/hadoop/yarn/api/TestContainerResourceDecrease.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/test/java/org/apache/hadoop/yarn/api/TestContainerResourceIncrease.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/test/java/org/apache/hadoop/yarn/api/TestContainerResourceIncreaseRequest.java YARN-1447. Common PB type definitions for container resizing. (Wangda Tan via Sandy Ryza) (sandy: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1548318>) * /hadoop/common/trunk/hadoop-yarn-project/CHANGES.txt * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/proto/yarn_protos.proto
19. FAILURE: Integrated in Hadoop-Mapreduce-trunk #1630 (See [<https://builds.apache.org/job/Hadoop-Mapreduce-trunk/1630/>]) YARN-1447: Forgot to add new files (sandy: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1548320>) * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceDecrease.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceIncrease.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceIncreaseRequest.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/java/org/apache/hadoop/yarn/api/records/impl/pb/ContainerResourceDecreasePBImpl.java * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-

common/src/main/java/org/apache/hadoop/yarn/api/records/impl/pb/ContainerResourceIncreasePBImp.java *
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 common/src/test/java/org/apache/hadoop/yarn/api/TestContainerResourceDecrease.java *
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 common/src/test/java/org/apache/hadoop/yarn/api/TestContainerResourceIncreaseRequest.java YARN-1447.
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<http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1548318>) *
 /hadoop/common/trunk/hadoop-yarn-project/CHANGES.txt * /hadoop/common/trunk/hadoop-yarn-
 project/hadoop-yarn/hadoop-yarn-api/src/main/proto/yarn_protos.proto
 20. SUCCESS: Integrated in Hadoop-Hdfs-trunk #1604 (See [<https://builds.apache.org/job/Hadoop-Hdfs-trunk/1604/>]) YARN-1447: Forgot to add new files (sandy: <http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1548320>) * /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-
 api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceDecrease.java *
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 api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceIncrease.java *
 /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-
 api/src/main/java/org/apache/hadoop/yarn/api/records/ContainerResourceIncreaseRequest.java *
 /hadoop/common/trunk/hadoop-yarn-project/hadoop-yarn/hadoop-yarn-
 common/src/main/java/org/apache/hadoop/yarn/api/records/impl/pb/ContainerResourceDecreasePBImp.java *
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 common/src/test/java/org/apache/hadoop/yarn/api/TestContainerResourceIncreaseRequest.java YARN-1447.
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<http://svn.apache.org/viewcvcs.cgi/?root=Apache-SVN&view=rev&rev=1548318>) *
 /hadoop/common/trunk/hadoop-yarn-project/CHANGES.txt * /hadoop/common/trunk/hadoop-yarn-
 project/hadoop-yarn/hadoop-yarn-api/src/main/proto/yarn_protos.proto