

git_comments:

1. Register for the first time
2. Allocate one more containers to UAM, just to be safe
3. * * Test UAM handling in RM.
4. Expecting the two running containers previously
5. Release one container
6. start RM
7. Register for the second time
8. * * Test UAM work preserving restart. When the keepContainersAcrossAttempt flag * is on, we allow UAM to directly register again and move on without getting * the applicationAlreadyRegistered exception.
9. Allocate two containers to UAM
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11. create app and launch the UAM
12. allow UAM re-register if work preservation is enabled
13. Clear the node set remembered by the secret manager. Necessary for UAM restart because we use the same attemptId.
14. Valid only for UAM restart
15. For UAM, amContainer would be null

git_commits:

1. **summary:** YARN-2037. Add work preserving restart support for Unmanaged AMs. (Botong Huang via Subru).
message: YARN-2037. Add work preserving restart support for Unmanaged AMs. (Botong Huang via Subru).

github_issues:

github_issues_comments:

github_pulls:

github_pulls_comments:

github_pulls_reviews:

jira_issues:

1. **summary:** Add work preserving restart support for Unmanaged AMs
description: It would be nice to allow Unmanaged AMs also to restart in a work-preserving way.
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label: code-design
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jira_issues_comments:

1. Moving all tickets targeted for the already closed release 2.6.0 into 2.6.1/2.7.2.
2. Should this be targeted to 2.6.2? We're trying to release 2.6.1 soon. Let me know.
3. Unless the patch is ready to go and the JIRA is a critical fix, we'll defer it to 2.6.2. Let me know if you have comments.
Thanks!
4. Targeting 2.6.3 now that 2.6.2 has shipped.
5. Moving out all non-critical / non-blocker issues that didn't make it out of 2.7.2 into 2.7.3.
6. Hi, can we move this out of 2.6.3? Thanks!
7. Move it to 2.6.4 as no update on this JIRA for a while.
8. [~subru] - is this a duplicate of YARN-1815?
9. It looks different. YARN-1815 is to address RM restart work preserving to remember UAM while here is work preserving during UAM restart. Am I missing anything?
10. [~kasha], [~junping_du], shouldn't RM remembering UAMs during work preserving restart be sufficient from the YARN framework side? Since UAMs are written by consumers outside the scope of YARN, it should be their responsibility if they want to write a UAM which is restartable/resilient. For e.g.: The Federation UAM is neither today but we are planning to enhance it in the near future.
11. Don't quite remember the discussion I refer to in the umbrella JIRA, it was a while ago. I believe my intent of filing this JIRA was looking into and ensuring the RM has a way to provide information to even UAMs if they choose to

- implement work-preserved recovery. e.g. all the completed and running containers' information.
12. [~kasha], that should be part of the (re) registration response on the UAM post failover which I agree can be addressed as part of YARN-1815
 13. Move all non-critical pending issues out of 2.6.4 into 2.6.5.
 14. 2.7.3 is under release process, changing target-version to 2.7.4.
 15. Moving this issue to 2.6.6. Please move back if you feel otherwise.
 16. Moving target version to 2.7.5 due to 2.7.4 release.
 17. v1 patch uploaded. For work preserving UAM restart (one with flag `{{KeepContainersAcrossApplicationAttempts}}` in `{{ApplicationSubmissionContext}}` set), we are not increasing the attempt id. Instead, RM directly allows the `{{registerApplicationMaster}}` call and returns the list of running containers of this UAM attempt back.
 18. | (x) *{color:red}-1 overall{color}* | \ \ \ \ || Vote || Subsystem || Runtime || Comment || | {color:blue}0{color} | {color:blue} reexec {color} | {color:blue} 0m 11s{color} | {color:blue} Docker mode activated. {color} | | | | | {color:brown} Prechecks {color} | | {color:green}+1{color} | {color:green} @author {color} | {color:green} 0m 0s{color} | {color:green} The patch does not contain any @author tags. {color} | | {color:green}+1{color} | {color:green} test4tests {color} | {color:green} 0m 0s{color} | {color:green} The patch appears to include 1 new or modified test files. {color} | | | | | {color:brown} trunk Compile Tests {color} | | {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 13m 59s{color} | {color:green} trunk passed {color} | | {color:green}+1{color} | {color:green} compile {color} | {color:green} 0m 37s{color} | {color:green} trunk passed {color} | | {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 0m 29s{color} | {color:green} trunk passed {color} | | {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 0m 41s{color} | {color:green} trunk passed {color} | | {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 1m 6s{color} | {color:green} trunk passed {color} | | {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 22s{color} | {color:green} trunk passed {color} | | | | | {color:brown} Patch Compile Tests {color} | | {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 0m 36s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} compile {color} | {color:green} 0m 37s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} javac {color} | {color:green} 0m 37s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 0m 26s{color} | {color:green} hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager: The patch generated 0 new + 157 unchanged - 3 fixed = 157 total (was 160) {color} | | {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 0m 37s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} whitespace {color} | {color:green} 0m 0s{color} | {color:green} The patch has no whitespace issues. {color} | | {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 1m 14s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 21s{color} | {color:green} the patch passed {color} | | | | | {color:brown} Other Tests {color} | | {color:red}-1{color} | {color:red} unit {color} | {color:red} 45m 46s{color} | {color:red} hadoop-yarn-server-resourcemanager in the patch failed. {color} | | {color:green}+1{color} | {color:green} asflicense {color} | {color:green} 0m 17s{color} | {color:green} The patch does not generate ASF License warnings. {color} | | {color:black}{color} | {color:black}{color} | {color:black} 68m 39s{color} | {color:black}{color} | \ \ \ \ || Reason || Tests || Failed junit tests | hadoop.yarn.server.resourcemanager.scheduler.capacity.TestContainerAllocation | \ \ \ \ || Subsystem || Report/Notes || | Docker | Image:yetus/hadoop:71bbb86 | | JIRA Issue | YARN-2037 | | JIRA Patch URL | <https://issues.apache.org/jira/secure/attachment/12888101/YARN-2037.v1.patch> | | Optional Tests | asflicense compile javac javadoc mvninstall mvnsite unit findbugs checkstyle | | uname | Linux 27431876ea9a 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 / b9e423f | | Default Java | 1.8.0_144 | | findbugs | v3.1.0-RC1 | | unit | https://builds.apache.org/job/PreCommit-YARN-Build/17571/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt | | Test Results | <https://builds.apache.org/job/PreCommit-YARN-Build/17571/testReport/> | | modules | C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager U: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager | | Console output | <https://builds.apache.org/job/PreCommit-YARN-Build/17571/console> | | Powered by | Apache Yetus 0.6.0-SNAPSHOT <http://yetus.apache.org> | This message was automatically generated.
 19. Unit test failure is irrelevant and being tracked under YARN-7044. The patch is tested e2e in our Federated cluster, where work preserving UAM is used to span across sub-clusters.
 20. Thanks [~botong] for the patch. +1 from my side. I'll wait for a day to see if anyone has any comments/feedback and commit accordingly.
 21. [~botong], I am preparing to commit the patch when I realized something; we are adding work preserving restart for UAM and so should update the Javadocs accordingly: * In `{{ApplicationMasterProtocol}}` to call out that for UnmanagedAM HA, we do allow re-register now, based on `*ApplicationSubmissionContext#keepContainers*` flag. * In getter/setter for `*keepContainers*` in `{{ApplicationSubmissionContext}}` to say that UnmanagedAMs can now set it for work preserving restart through re-registration. Thanks.
 22. Is this still on target for 2.9.0 ? If not, can we we push this out to the next major release ?
 23. | (x) *{color:red}-1 overall{color}* | \ \ \ \ || Vote || Subsystem || Runtime || Comment || | {color:blue}0{color} | {color:blue} reexec {color} | {color:blue} 0m 27s{color} | {color:blue} Docker mode activated. {color} | | | | | {color:brown} Prechecks {color} | | {color:green}+1{color} | {color:green} @author {color} | {color:green} 0m 0s{color} | {color:green} The patch does not contain any @author tags. {color} | | {color:green}+1{color} | {color:green} test4tests {color} | {color:green} 0m 0s{color} | {color:green} The patch appears to include 1 new or

modified test files. {color} || || || {color:brown} trunk Compile Tests {color} || {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 28s{color} | {color:blue} Maven dependency ordering for branch {color} || {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 17m 27s{color} | {color:green} trunk passed {color} || {color:green}+1{color} | {color:green} compile {color} | {color:green} 11m 41s{color} | {color:green} trunk passed {color} || {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 1m 22s{color} | {color:green} trunk passed {color} || {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 1m 37s{color} | {color:green} trunk passed {color} || {color:green}+1{color} | {color:green} shadedclient {color} | {color:green} 13m 0s{color} | {color:green} branch has no errors when building and testing our client artifacts. {color} | {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 2m 23s{color} | {color:green} trunk passed {color} || {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 55s{color} | {color:green} trunk passed {color} || || || || {color:brown} Patch Compile Tests {color} || {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 10s{color} | {color:blue} Maven dependency ordering for patch {color} || {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 1m 0s{color} | {color:green} the patch passed {color} || {color:green}+1{color} | {color:green} compile {color} | {color:green} 5m 42s{color} | {color:green} the patch passed {color} || {color:green}+1{color} | {color:green} javac {color} | {color:green} 5m 42s{color} | {color:green} the patch passed {color} || {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 0m 58s{color} | {color:green} hadoop-yarn-project/hadoop-yarn: The patch generated 0 new + 186 unchanged - 3 fixed = 186 total (was 189) {color} || {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 1m 15s{color} | {color:green} the patch passed {color} || {color:green}+1{color} | {color:green} whitespace {color} | {color:green} 0m 0s{color} | {color:green} The patch has no whitespace issues. {color} || {color:green}+1{color} | {color:green} shadedclient {color} | {color:green} 10m 27s{color} | {color:green} patch has no errors when building and testing our client artifacts. {color} || {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 2m 32s{color} | {color:green} the patch passed {color} || {color:red}-1{color} | {color:red} javadoc {color} | {color:red} 0m 25s{color} | {color:red} hadoop-yarn-api in the patch failed. {color} || || || || {color:brown} Other Tests {color} || {color:green}+1{color} | {color:green} unit {color} | {color:green} 0m 36s{color} | {color:green} hadoop-yarn-api in the patch passed. {color} || {color:red}-1{color} | {color:red} unit {color} | {color:red} 44m 42s{color} | {color:red} hadoop-yarn-server-resourcemanager in the patch failed. {color} || {color:green}+1{color} | {color:green} asflicense {color} | {color:green} 0m 32s{color} | {color:green} The patch does not generate ASF License warnings. {color} || {color:black}{color} | {color:black} {color} | {color:black}122m 39s{color} | {color:black} {color} | \ \ \ \ Reason \ \ Tests \ \ Failed junit tests | hadoop.yarn.server.resourcemanager.scheduler.capacity.TestContainerAllocation | \ \ \ \ Subsystem \ \ Report/Notes \ \ Docker | Image:yetus/hadoop:71bbb86 | | JIRA Issue | YARN-2037 | | JIRA Patch URL | https://issues.apache.org/jira/secure/attachment/12889858/YARN-2037.v2.patch | | Optional Tests | asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux 313d6db8ebf1 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 / 06df6ab | | Default Java | 1.8.0_144 | | findbugs | v3.1.0-RC1 | | javadoc | https://builds.apache.org/job/PreCommit-YARN-Build/17724/artifact/patchprocess/patch-javadoc-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-api.txt | | unit | https://builds.apache.org/job/PreCommit-YARN-Build/17724/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt | | Test Results | https://builds.apache.org/job/PreCommit-YARN-Build/17724/testReport/ | | modules | C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager U: hadoop-yarn-project/hadoop-yarn | | Console output | https://builds.apache.org/job/PreCommit-YARN-Build/17724/console | | Powered by | Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org | This message was automatically generated.

24. | (x) *{color:red}-1 overall{color}* | \ \ \ \ Vote \ \ Subsystem \ \ Runtime \ \ Comment \ \ | {color:blue}0{color} | {color:blue} reexec {color} | {color:blue} 0m 25s{color} | {color:blue} Docker mode activated. {color} || || || || {color:brown} Prechecks {color} || {color:green}+1{color} | {color:green} @author {color} | {color:green} 0m 0s{color} | {color:green} The patch does not contain any @author tags. {color} || {color:green}+1{color} | {color:green} test4tests {color} | {color:green} 0m 0s{color} | {color:green} The patch appears to include 1 new or modified test files. {color} || || || || {color:brown} trunk Compile Tests {color} || {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 58s{color} | {color:blue} Maven dependency ordering for branch {color} || {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 17m 20s{color} | {color:green} trunk passed {color} || {color:green}+1{color} | {color:green} compile {color} | {color:green} 9m 18s{color} | {color:green} trunk passed {color} || {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 1m 1s{color} | {color:green} trunk passed {color} || {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 1m 21s{color} | {color:green} trunk passed {color} || {color:green}+1{color} | {color:green} shadedclient {color} | {color:green} 12m 5s{color} | {color:green} branch has no errors when building and testing our client artifacts. {color} | {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 2m 19s{color} | {color:green} trunk passed {color} || {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 54s{color} | {color:green} trunk passed {color} || || || || {color:brown} Patch Compile Tests {color} || {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 10s{color} | {color:blue} Maven dependency ordering for patch {color} || {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 1m 0s{color} | {color:green} the patch passed {color} || {color:green}+1{color} | {color:green} compile {color} | {color:green} 5m 57s{color} | {color:green} the patch passed {color} || {color:green}+1{color} | {color:green} javac {color} | {color:green} 5m 57s{color} | {color:green} the patch passed {color} || {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 0m 59s{color} | {color:green} hadoop-yarn-project/hadoop-yarn: The patch generated 0 new + 186 unchanged - 3 fixed =

186 total (was 189) {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 1m 15s{color} | {color:green} the patch passed {color} | {color:green}+1{color} | {color:green} whitespace {color} | {color:green} 0m 0s{color} | {color:green} The patch has no whitespace issues. {color} | {color:green}+1{color} | {color:green} shadedclient {color} | {color:green} 10m 30s{color} | {color:green} patch has no errors when building and testing our client artifacts. {color} | {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 2m 34s{color} | {color:green} the patch passed {color} | {color:red}-1{color} | {color:red} javadoc {color} | {color:red} 0m 26s{color} | {color:red} hadoop-yarn-api in the patch failed. {color} | || || || {color:brown} Other Tests {color} || | {color:green}+1{color} | {color:green} unit {color} | {color:green} 0m 36s{color} | {color:green} hadoop-yarn-api in the patch passed. {color} | {color:red}-1{color} | {color:red} unit {color} | {color:red} 45m 49s{color} | {color:red} hadoop-yarn-server-resourcemanager in the patch failed. {color} | {color:green}+1{color} | {color:green} asflicense {color} | {color:green} 0m 28s{color} | {color:green} The patch does not generate ASF License warnings. {color} | | {color:black}{color} | {color:black} {color} | {color:black}120m 52s{color} | {color:black} {color} | \\\ \ Reason || Tests || Failed junit tests | hadoop.yarn.server.resourcemanager.scheduler.capacity.TestContainerAllocation | \\\ \ Subsystem || Report/Notes || Docker | Image:yetus/hadoop:71bbb86 | | JIRA Issue | YARN-2037 | | JIRA Patch URL | https://issues.apache.org/jira/secure/attachment/12889993/YARN-2037.v3.patch | | Optional Tests | asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux d158b620c80b 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 / 563dcd | | Default Java | 1.8.0_144 | | findbugs | v3.1.0-RC1 | | javadoc | https://builds.apache.org/job/PreCommit-YARN-Build/17730/artifact/patchprocess/patch-javadoc-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-api.txt | | unit | https://builds.apache.org/job/PreCommit-YARN-Build/17730/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt | | Test Results | https://builds.apache.org/job/PreCommit-YARN-Build/17730/testReport/ | | modules | C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager U: hadoop-yarn-project/hadoop-yarn | | Console output | https://builds.apache.org/job/PreCommit-YARN-Build/17730/console | | Powered by | Apache Yetus 0.6.0-SNAPSHOT http://yetus.apache.org | This message was automatically generated.

25. (x) *{color:red}-1 overall{color}* | \\\ \ || Vote || Subsystem || Runtime || Comment || | {color:blue}0{color} | {color:blue} reexec {color} | {color:blue} 0m 21s{color} | {color:blue} Docker mode activated. {color} | || || || {color:brown} Prechecks {color} || | {color:green}+1{color} | {color:green} @author {color} | {color:green} 0m 0s{color} | {color:green} The patch does not contain any @author tags. {color} | | {color:green}+1{color} | {color:green} test4tests {color} | {color:green} 0m 0s{color} | {color:green} The patch appears to include 1 new or modified test files. {color} | || || || {color:brown} trunk Compile Tests {color} || | {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 46s{color} | {color:blue} Maven dependency ordering for branch {color} | | {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 12m 41s{color} | {color:green} trunk passed {color} | | {color:green}+1{color} | {color:green} compile {color} | {color:green} 9m 3s{color} | {color:green} trunk passed {color} | | {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 0m 50s{color} | {color:green} trunk passed {color} | | {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 1m 4s{color} | {color:green} trunk passed {color} | | {color:green}+1{color} | {color:green} shadedclient {color} | {color:green} 10m 27s{color} | {color:green} branch has no errors when building and testing our client artifacts. {color} | | {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 1m 58s{color} | {color:green} trunk passed {color} | | {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 48s{color} | {color:green} trunk passed {color} | || || || {color:brown} Patch Compile Tests {color} || | {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 9s{color} | {color:blue} Maven dependency ordering for patch {color} | | {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 0m 53s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} compile {color} | {color:green} 5m 35s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} javac {color} | {color:green} 5m 35s{color} | {color:green} the patch passed {color} | | {color:orange}-0{color} | {color:orange} checkstyle {color} | {color:orange} 0m 47s{color} | {color:orange} hadoop-yarn-project/hadoop-yarn: The patch generated 1 new + 187 unchanged - 3 fixed = 188 total (was 190) {color} | | {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 1m 2s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} whitespace {color} | {color:green} 0m 0s{color} | {color:green} The patch has no whitespace issues. {color} | | {color:green}+1{color} | {color:green} shadedclient {color} | {color:green} 9m 44s{color} | {color:green} patch has no errors when building and testing our client artifacts. {color} | | {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 2m 12s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 42s{color} | {color:green} the patch passed {color} | || || || {color:brown} Other Tests {color} || | {color:green}+1{color} | {color:green} unit {color} | {color:green} 0m 36s{color} | {color:green} hadoop-yarn-api in the patch passed. {color} | | {color:red}-1{color} | {color:red} unit {color} | {color:red} 44m 42s{color} | {color:red} hadoop-yarn-server-resourcemanager in the patch failed. {color} | | {color:green}+1{color} | {color:green} asflicense {color} | {color:green} 0m 21s{color} | {color:green} The patch does not generate ASF License warnings. {color} | | {color:black}{color} | {color:black} {color} | {color:black}110m 3s{color} | {color:black} {color} | \\\ \ Reason || Tests || Failed junit tests | hadoop.yarn.server.resourcemanager.scheduler.capacity.TestContainerAllocation | \\\ \ Subsystem || Report/Notes || Docker | Image:yetus/hadoop:71bbb86 | | JIRA Issue | YARN-2037 | | JIRA Patch URL | https://issues.apache.org/jira/secure/attachment/12890043/YARN-2037.v4.patch | | Optional Tests | asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux 7b4e351ec4f9 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 / 2c62ff7 | | Default Java | 1.8.0_144 | | findbugs | v3.1.0-RC1 | | checkstyle | https://builds.apache.org/job/PreCommit-YARN-Build/17732/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt | | unit | https://builds.apache.org/job/PreCommit-YARN-Build/17732/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt | | Test Results | <https://builds.apache.org/job/PreCommit-YARN-Build/17732/testReport/> | | modules | C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager U: hadoop-yarn-project/hadoop-yarn | | Console output | <https://builds.apache.org/job/PreCommit-YARN-Build/17732/console> | | Powered by | Apache Yetus 0.6.0-SNAPSHOT <http://yetus.apache.org> | This message was automatically generated.

26. Thanks [~botong] for addressing the comments. I committed it to trunk but compile of `{{TestWorkPreservingUnmanagedAM}}` fails in branch-2. Can you kindly provide a patch for branch-2?
27. SUCCESS: Integrated in Jenkins build Hadoop-trunk-Commit #13008 (See [<https://builds.apache.org/job/Hadoop-trunk-Commit/13008/>]) YARN-2037. Add work preserving restart support for Unmanaged AMs. (subru: rev d4d2fd1acd2fddd04f45e67897804eea30d79a1) * (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/api/records/ApplicationSubmissionContext.java * (add) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/TestWorkPreservingUnmanagedAM.java * (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/DefaultAMSPProcessor.java * (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/ApplicationMasterService.java * (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/api/ApplicationMasterProtocol.java * (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/scheduler/AbstractYarnScheduler.java * (edit) hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/rmapp/attempt/RMAppAttemptImpl.java
28. Patch for branch-2 uploaded. Changed the constructor of `{{TestWorkPreservingUnmanagedAM}}` a bit to make it compile.
29. | (x) *{color:red}-1 overall{color}* | \ \ \ \ | Vote | Subsystem | Runtime | Comment | | {color:blue}0{color} | {color:blue} reexec {color} | {color:blue} 0m 0s{color} | {color:blue} Docker mode activated. {color} | | {color:red}-1{color} | | {color:red} patch {color} | {color:red} 0m 8s{color} | {color:red} YARN-2037 does not apply to trunk. Rebase required? Wrong Branch? See <https://wiki.apache.org/hadoop/HowToContribute> for help. {color} | \ \ \ \ | Subsystem | Report/Notes | | JIRA Issue | YARN-2037 | | JIRA Patch URL | <https://issues.apache.org/jira/secure/attachment/12890173/YARN-2037-YARN-branch-2.v1.patch> | | Console output | <https://builds.apache.org/job/PreCommit-YARN-Build/17747/console> | | Powered by | Apache Yetus 0.6.0-SNAPSHOT <http://yetus.apache.org> | This message was automatically generated.
30. | (x) *{color:red}-1 overall{color}* | \ \ \ \ | Vote | Subsystem | Runtime | Comment | | {color:blue}0{color} | {color:blue} reexec {color} | {color:blue} 3m 35s{color} | {color:blue} Docker mode activated. {color} | | | | | {color:brown} Prechecks {color} | | {color:green}+1{color} | {color:green} @author {color} | {color:green} 0m 0s{color} | {color:green} The patch does not contain any @author tags. {color} | | {color:green}+1{color} | {color:green} test4tests {color} | {color:green} 0m 0s{color} | {color:green} The patch appears to include 1 new or modified test files. {color} | | | | | {color:brown} branch-2 Compile Tests {color} | | {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 22s{color} | {color:blue} Maven dependency ordering for branch {color} | | {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 6m 44s{color} | {color:green} branch-2 passed {color} | | {color:green}+1{color} | {color:green} compile {color} | {color:green} 2m 29s{color} | {color:green} branch-2 passed {color} | | {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 0m 40s{color} | {color:green} branch-2 passed {color} | | {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 1m 5s{color} | {color:green} branch-2 passed {color} | | {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 2m 21s{color} | {color:green} branch-2 passed {color} | | {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 46s{color} | {color:green} branch-2 passed {color} | | | | | {color:brown} Patch Compile Tests {color} | | {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 12s{color} | {color:blue} Maven dependency ordering for patch {color} | | {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 0m 58s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} compile {color} | {color:green} 2m 21s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} javac {color} | {color:green} 2m 21s{color} | {color:green} the patch passed {color} | | {color:orange}-0{color} | {color:orange} checkstyle {color} | {color:orange} 0m 41s{color} | {color:orange} hadoop-yarn-project/hadoop-yarn: The patch generated 1 new + 180 unchanged - 3 fixed = 181 total (was 183) {color} | | {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 1m 2s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} whitespace {color} | {color:green} 0m 0s{color} | {color:green} The patch has no whitespace issues. {color} | | {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 2m 50s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 41s{color} | {color:green} the patch passed {color} | | | | | {color:brown} Other Tests {color} | | {color:green}+1{color} | {color:green} unit {color} | {color:green} 0m 24s{color} | {color:green} hadoop-yarn-api in the patch passed. {color} | | {color:red}-1{color} | {color:red} unit {color} | {color:red} 56m 49s{color} | {color:red}

hadoop-yarn-server-resourcemanager in the patch failed. {color} || {color:red}-1{color} | {color:red} asflicense {color} | {color:red} 0m 16s{color} | {color:red} The patch generated 1 ASF License warnings. {color} || {color:black}{color} | {color:black} {color} | {color:black} 91m 44s{color} | {color:black} {color} | \\ \\ Reason || Tests || | Failed junit tests | hadoop.yarn.server.resourcemanager.TestApplicationACLs || | hadoop.yarn.server.resourcemanager.reservation.TestCapacityOverTimePolicy || | hadoop.yarn.server.resourcemanager.resourcetracker.TestNMReconnect || | hadoop.yarn.server.resourcemanager.scheduler.capacity.TestCapacityScheduler || | hadoop.yarn.server.resourcemanager.TestRMRestart || | hadoop.yarn.server.resourcemanager.scheduler.fair.TestFairSchedulerQueueACLs || | hadoop.yarn.server.resourcemanager.scheduler.TestAbstractYarnScheduler || | hadoop.yarn.server.resourcemanager.TestRMHA || | hadoop.yarn.server.resourcemanager.resourcetracker.TestNMExpiry || | hadoop.yarn.server.resourcemanager.webapp.TestRMWebappAuthentication || | hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesHttpStaticUserPermissions || | hadoop.yarn.server.resourcemanager.scheduler.capacity.TestContainerAllocation || | hadoop.yarn.server.resourcemanager.TestClientRMService || | hadoop.yarn.server.resourcemanager.scheduler.capacity.TestCapacitySchedulerQueueACLs || | hadoop.yarn.server.resourcemanager.scheduler.TestSchedulerUtils || | hadoop.yarn.server.resourcemanager.security.TestClientToAMTokens || | hadoop.yarn.server.resourcemanager.TestAMAuthorization || | hadoop.yarn.server.resourcemanager.TestResourceTrackerService || | hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesDelegationTokenAuthentication || | hadoop.yarn.server.resourcemanager.scheduler.capacity.TestApplicationPriorityACLs || Timed out junit tests | org.apache.hadoop.yarn.server.resourcemanager.TestRMAdminService | \\ \\ Subsystem || Report/Notes || | Docker | Image:yetus/hadoop:eaf5c66 | JIRA Issue | YARN-2037 | JIRA Patch URL | <https://issues.apache.org/jira/secure/attachment/12890221/YARN-2037-branch-2.v1.patch> | Optional Tests | asflicense compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux 62f44a0a956a 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 | branch-2 / 175ff05 | | Default Java | 1.7.0_151 | | findbugs | v3.0.0 | | checkstyle | https://builds.apache.org/job/PreCommit-YARN-Build/17757/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt | | unit | https://builds.apache.org/job/PreCommit-YARN-Build/17757/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt | | Test Results | <https://builds.apache.org/job/PreCommit-YARN-Build/17757/testReport/> | | asflicense | <https://builds.apache.org/job/PreCommit-YARN-Build/17757/artifact/patchprocess/patch-asflicense-problems.txt> | | modules | C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager U: hadoop-yarn-project/hadoop-yarn | | Console output | <https://builds.apache.org/job/PreCommit-YARN-Build/17757/console> | | Powered by | Apache Yetus 0.6.0-SNAPSHOT <http://yetus.apache.org> | This message was automatically generated.

31. (x) *{color:red}-1 overall{color}* | \\ \\ Vote || Subsystem || Runtime || Comment || | {color:blue}0{color} | {color:blue} reexec {color} | {color:blue} 0m 33s{color} | {color:blue} Docker mode activated. {color} | || || || {color:brown} Prechecks {color} || | {color:green}+1{color} | {color:green} @author {color} | {color:green} 0m 0s{color} | {color:green} The patch does not contain any @author tags. {color} | | {color:green}+1{color} | {color:green} test4tests {color} | {color:green} 0m 0s{color} | {color:green} The patch appears to include 1 new or modified test files. {color} | || || || {color:brown} branch-2 Compile Tests {color} || | {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 30s{color} | {color:blue} Maven dependency ordering for branch {color} | | {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 8m 1s{color} | {color:green} branch-2 passed {color} | | {color:green}+1{color} | {color:green} compile {color} | {color:green} 2m 50s{color} | {color:green} branch-2 passed {color} | | {color:green}+1{color} | {color:green} checkstyle {color} | {color:green} 0m 46s{color} | {color:green} branch-2 passed {color} | | {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 1m 14s{color} | {color:green} branch-2 passed {color} | | {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 2m 35s{color} | {color:green} branch-2 passed {color} | | {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 46s{color} | {color:green} branch-2 passed {color} | || || || {color:brown} Patch Compile Tests {color} || | {color:blue}0{color} | {color:blue} mvndep {color} | {color:blue} 0m 11s{color} | {color:blue} Maven dependency ordering for patch {color} | | {color:green}+1{color} | {color:green} mvninstall {color} | {color:green} 0m 58s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} compile {color} | {color:green} 2m 26s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} javac {color} | {color:green} 2m 26s{color} | {color:green} the patch passed {color} | | {color:orange}-0{color} | {color:orange} checkstyle {color} | {color:orange} 0m 45s{color} | {color:orange} hadoop-yarn-project/hadoop-yarn: The patch generated 1 new + 179 unchanged - 3 fixed = 180 total (was 182) {color} | | {color:green}+1{color} | {color:green} mvnsite {color} | {color:green} 1m 12s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} whitespace {color} | {color:green} 0m 0s{color} | {color:green} The patch has no whitespace issues. {color} | | {color:green}+1{color} | {color:green} findbugs {color} | {color:green} 2m 59s{color} | {color:green} the patch passed {color} | | {color:green}+1{color} | {color:green} javadoc {color} | {color:green} 0m 43s{color} | {color:green} the patch passed {color} | || || || {color:brown} Other Tests {color} || | {color:green}+1{color} | {color:green} unit {color} | {color:green} 0m 32s{color} | {color:green} hadoop-yarn-api in the patch passed. {color} | | {color:red}-1{color} | {color:red} unit {color} | {color:red} 51m 6s{color} | {color:red}

hadoop-yarn-server-resourcemanager in the patch failed. {color} || {color:green}+1{color} | {color:green} asflicense {color} | {color:green} 0m 23s{color} | {color:green} The patch does not generate ASF License warnings. {color} || {color:black}{color} | {color:black} {color} | {color:black} 86m 0s{color} | {color:black} {color} || \ \ || Reason || Tests || | Failed junit tests |
hadoop.yarn.server.resourcemanager.webapp.TestRMWebServicesDelegationTokenAuthentication || |
hadoop.yarn.server.resourcemanager.scheduler.capacity.TestContainerAllocation | \ \ || Subsystem || Report/Notes || |
Docker | Image:yetus/hadoop:eaf5c66 | | JIRA Issue | YARN-2037 | | JIRA Patch URL |
<https://issues.apache.org/jira/secure/attachment/12890221/YARN-2037-branch-2.v1.patch> | | Optional Tests | asflicense
compile javac javadoc mvninstall mvnsite unit shadedclient findbugs checkstyle | | uname | Linux 71dac4ae477f 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 | branch-2 /
175ff05 | | Default Java | 1.7.0_151 | | findbugs | v3.0.0 | | checkstyle | https://builds.apache.org/job/PreCommit-YARN-Build/17760/artifact/patchprocess/diff-checkstyle-hadoop-yarn-project_hadoop-yarn.txt | | unit |
https://builds.apache.org/job/PreCommit-YARN-Build/17760/artifact/patchprocess/patch-unit-hadoop-yarn-project_hadoop-yarn_hadoop-yarn-server_hadoop-yarn-server-resourcemanager.txt | | Test Results |
<https://builds.apache.org/job/PreCommit-YARN-Build/17760/testReport/> | | modules | C: hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager U:
hadoop-yarn-project/hadoop-yarn | | Console output | <https://builds.apache.org/job/PreCommit-YARN-Build/17760/console> | | Powered by | Apache Yetus 0.6.0-SNAPSHOT <http://yetus.apache.org> | This message was
automatically generated.

32. **body:** {{TestRMWebServicesDelegationTokenAuthentication}} test failure is irrelevant and I cannot repro locally. {{testAMContainerAllocationWhenDNSUnavailable}} is tracked under YARN-7044. Cannot work around the checkstyle issue without breaking javadoc checks.

label: code-design

33. Thanks [~botong] for the branch-2 patch! I have committed it and cherry-picked to branch-3.0.
34. Thanks [~subru] and everyone else for the comments and review!