Hadoop YARN / YARN-896 Roll up for long-lived services in YARN / YARN-2704

Localization and log-aggregation will fail if hdfs delegation token expired after token-max-life-time

Details

Type:	🔷 Sub-task	Status:	**CLOSED**
Priority:	🔺 Critical	Resolution:	Fixed
Affects Version/s:	None	Fix Version/s:	2.6.0
Component/s:	None		
Labels:	None		
Target Version/s:	2.6.0		
Hadoop Flags:	Reviewed		

Description

In secure mode, YARN requires the hdfs-delegation token to do localization and log aggregation on behalf of the user. But the hdfs delegation token will eventually expire after max-token-life-time. So, localization and log aggregation will fail after the token expires.

Attachments

📄 YARN-2704.1.patch		85 kB	20/Oct/14 17:24
📄 YARN-2704.2.patch		92 kB	26/Oct/14 03:24
📄 YARN-2704.2.patch		88 kB	24/Oct/14 17:41
📄 YARN-2704.3.patch		92 kB	27/Oct/14 01:17
📄 YARN-2704.4.patch		93 kB	27/Oct/14 18:11

Issue Links

breaks

🔴 YARN-2964 RM prematurely cancels tokens for jobs that submit jobs (oozie)	⛔	**CLOSED**
🔴 YARN-3439 RM fails to renew token when Oozie launcher leaves before sub-job finishes	⛔	**CLOSED**
🔴 YARN-2790 NM can't aggregate logs past HDFS delegation token expiry.	🔺	**CLOSED**

duplicates

🔴 YARN-2425 When Application submitted by via Yarn RM WS, log aggregation does not happens	🔼	**RESOLVED**

is related to

🔴 YARN-2794 Fix log msgs about distributing system-credentials	🔼	**CLOSED**

Show 2 more links (2 is related to)

Activity

↑

▼ ⊙ Vinod Kumar Vavilapalli added a comment - 17/Oct/14 19:12

Good catch! Sigh, it was there in my yet-not-posted design doc for YARN-941, but missed it somehow.

I think the only rational solution for this is decoupling tokens for localization and log-aggregation from user. I don't like adding new APIs through which users can submit new tokens - this is really a YARN responsibility and so it should automatically get tokens that are needed.

▼ ⊙ Jian He added a comment - 20/Oct/14 04:48

> this is really a YARN responsibility and so it should automatically get tokens that are needed

Agree, we should let YARN automatically request new hdfs token on behalf of the user for localization and log-aggregation. I'm creating a patch based on this idea.

ⓥ ○ **Jian He** added a comment - 20/Oct/14 17:24

uploaded a patch

- make RM automatically request hdfs delegation token on behalf of the user if 1) user doesn't provide delegation token on app submission; Or 2) the hdfs delegation token is about to expire in 10 hours.
- NMs heartBeat with RM to get the new tokens and use that for localization and log-aggregation
- a config is added to disable/enable this feature.
- This approach also requires namenode to config RM as the proxy user

---

ⓥ ○ **Hadoop QA** added a comment - 20/Oct/14 18:54

-1 overall. Here are the results of testing the latest attachment
http://issues.apache.org/jira/secure/attachment/12675875/YARN-2704.1.patch
against trunk revision d5084b9.

+1 @author. The patch does not contain any @author tags.

+1 tests included. The patch appears to include 7 new or modified test files.

-1 javac. The applied patch generated 1269 javac compiler warnings (more than the trunk's current 1266 warnings).

+1 javadoc. There were no new javadoc warning messages.

+1 eclipse:eclipse. The patch built with eclipse:eclipse.

-1 findbugs. The patch appears to introduce 2 new Findbugs (version 2.0.3) warnings.

+1 release audit. The applied patch does not increase the total number of release audit warnings.

+1 core tests. The patch passed unit tests in hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager.

+1 contrib tests. The patch passed contrib unit tests.

Test results: https://builds.apache.org/job/PreCommit-YARN-Build/5460//testReport/
Findbugs warnings: https://builds.apache.org/job/PreCommit-YARN-Build/5460//artifact/patchprocess/newPatchFindbugsWarningshadoop-yarn-server-resourcemanager.html
Javac warnings: https://builds.apache.org/job/PreCommit-YARN-Build/5460//artifact/patchprocess/diffJavacWarnings.txt
Console output: https://builds.apache.org/job/PreCommit-YARN-Build/5460//console

This message is automatically generated.

ⓥ ○ **Vinod Kumar Vavilapalli** added a comment - 23/Oct/14 22:53

Tx for working on this Jian.

Summary

Quickly summarizing what I think is happening:

- System-use = localization + log-aggregation
- System-tokens = tokens obtained for system-use.
- Our flag = new flag added in this patch to inform RM that it is a configured super (proxy) user.
- Tokens expire after 7 days

#	User gives credentials that YARN can use for system-use	Our new flag is on	What happens
1	Yes	No	YARN will use credentials passed by user for system use. Apps cannot run beyond 7 days
2	No	No	YARN cannot launch the app. Not supported today
3	Yes	Yes	For system-use, YARN will simply use credentials passed by the user for launching all containers till 7 days. On the 7th day, RM will get new tokens on behalf of the user, YARN will use them for system-use for new containers
4	No	Yes	RM will not be able to launch containers or aggregate logs till all NMs get system-tokens (may be worst case 10mins). After that point, RM will always use system-tokens for all containers on all days

(3) and (4) are quite ugly because of the overloading everywhere. But we can fix them separately, will file tickets.

Code review

Suggestions for renames

- auto-request.framework-token -> simply yarn.resourcemanager.proxy-user-previleges-enabled. It's verbose, yes, but conveys the meaning.
- Similarly RM_AUTO_REQUEST_FRAMEWORK_TOKEN
- Let's add the config to yarn-default and say that this only works if RM is a proxy user.
- ApplicationIdBytesMapProto -> SystemTokensProto

Code comments:

- NodeStatusUpdaterImpl.parseCredentials can be static
- Let's rename appCredentials to be systemCredentialsForApps everywhere.
- rmContext.getAppCrendentials() <- typo

ResourceLocalizationService

- addAppCredentialsSentFromRM() is adding tokens to what the container is already passing. I think the localizer should only get the system-tokens if system-tokens are available.
- We are doing the same mistake in LogAggregationService too.
- Not sure I can find the changes related to the public distributed cache.
- Some arguments to the ResourceLocalizationService's constructor can now be dropped given we are passing the Context - for e.g. NMStateStoreService.
- "Add token for localization" -> "Adding new application-token: ". We should also have an upfront log saying which app is getting new tokens - 'Adding new framework tokens from ResourceManager for application $appID"
- Make similar changes like above in LogAggregationService.

DelegationTokenRenewer

- DelegationTokenToRenew constructor - exception handling is busted. Not sure what happens to the RM. Let's file a ticket to clean it up.
- removeApplicationFromRenewal() is only called when log-aggregation is enabled, so that will affect the new credentials map?
- getHdfsDelegationToken()
  - Rename to obtainNewSystemTokensForUser
  - Just bubble up the IOException instead of wrapping it in YarnRuntimeException.
- requestNewHdfsDelegationToken
  - We don't need to renew the token immediately after obtaining it?
  - This method is called only when hasHdfsToken is true. While doing this check, we should also look for the service name matching the default-file-system.
  - hasHdfsToken -> hasSystemCredentialsForApp
  - Log message "Received new token " can be debug.
  - Log message ""Requested new token from hdfs for " + applicationId + ". Received " + newTokens.length + " tokens.": Drop hdfs and instead say the service name?
- requestNewHdfsDelegationTokenIfNeeded
  - Make 36000000 a constant. And why is it 10 hours? Shouldn't this be a function of the max-life-time in general?
- The log message " found existing hdfs token " needs to be a debug log
- Log message "The token was removed already. Token" can also be debug?
- Log message ("Renew " + token + " in " + expiresIn + " ms, appId = " + token.applicationId); -> Debug?
- Log message ("Renewed delegation-token= [" + dttr + "], for " + dttr.applicationId); -> Debug
- Log message "removing failed delegation token for appid=" should be INFO.

⌄ ◯ Jian He added a comment - 24/Oct/14 01:32

Thanks Vinod for the review !

> removeApplicationFromRenewal() is only called when log-aggregation is enabled, so that will affect the new credentials map?

removeApplicationFromRenewal is actually directly called when log-aggregation is disabled. if it's enabled, they are added to a delayed map.

> Just bubble up the IOException instead of wrapping it in YarnRuntimeException.

It's inside the run method, so I wrap it with runTimeException

> We don't need to renew the token immediately after obtaining it?

This is to get the expiration date, token itself doesn't have the expiration date

> Make 36000000 a constant. And why is it 10 hours? Shouldn't this be a function of the max-life-time in general?

This guarantees we have 10h minimum buffer to distribute the tokens. Any time more that is not necessary ?

> we should also look for the service name matching the default-file-system.

there's no easy way to get the service name base on the file-system object, and the hdfs token service-name varies in different case: e.g. ha/non-ha; use-ip/use-hostname

> The log message " found existing hdfs token " needs to be a debug log

Regarding the info/debug level logs, these logs are all low frequency logs, by default it's only 1 day a time(renew interval) . And it's so much easier to debug in info level than debug level. maybe in info level while stablizing this feature?

∨ ◌ **Jian He** added a comment - 24/Oct/14 17:41

Uploaded a new patch, addressed all other comments

∨ ◌ **Hadoop QA** added a comment - 24/Oct/14 19:17

-1 overall. Here are the results of testing the latest attachment
http://issues.apache.org/jira/secure/attachment/12676949/YARN-2704.2.patch
against trunk revision b3d8a64.

+1 @author. The patch does not contain any @author tags.

+1 tests included. The patch appears to include 6 new or modified test files.

+1 javac. The applied patch does not increase the total number of javac compiler warnings.

+1 javadoc. There were no new javadoc warning messages.

+1 eclipse:eclipse. The patch built with eclipse:eclipse.

-1 findbugs. The patch appears to introduce 1 new Findbugs (version 2.0.3) warnings.

+1 release audit. The applied patch does not increase the total number of release audit warnings.

-1 core tests. The patch failed these unit tests in hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager:

org.apache.hadoop.yarn.server.nodemanager.containermanager.TestContainerManagerRecovery
org.apache.hadoop.yarn.server.nodemanager.containermanager.localizer.TestLocalCacheDirectoryManager
org.apache.hadoop.yarn.server.nodemanager.containermanager.localizer.TestResourceLocalizationService
org.apache.hadoop.yarn.server.nodemanager.TestEventFlow

+1 contrib tests. The patch passed contrib unit tests.

Test results: https://builds.apache.org/job/PreCommit-YARN-Build/5544//testReport/
Findbugs warnings: https://builds.apache.org/job/PreCommit-YARN-Build/5544//artifact/patchprocess/newPatchFindbugsWarningshadoop-yarn-server-resourcemanager.html
Console output: https://builds.apache.org/job/PreCommit-YARN-Build/5544//console

This message is automatically generated.

∨ ◌ **Jian He** added a comment - 26/Oct/14 03:24

Fixed test failures

∨ ◌ **Hadoop QA** added a comment - 26/Oct/14 04:57

+1 overall. Here are the results of testing the latest attachment
http://issues.apache.org/jira/secure/attachment/12677147/YARN-2704.2.patch
against trunk revision 65d95b1.

+1 @author. The patch does not contain any @author tags.

+1 tests included. The patch appears to include 7 new or modified test files.

+1 javac. The applied patch does not increase the total number of javac compiler warnings.

+1 javadoc. There were no new javadoc warning messages.

+1 eclipse:eclipse. The patch built with eclipse:eclipse.

+1 findbugs. The patch does not introduce any new Findbugs (version 2.0.3) warnings.

+1 release audit. The applied patch does not increase the total number of release audit warnings.

+1 core tests. The patch passed unit tests in hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager.

+1 contrib tests. The patch passed contrib unit tests.

Test results: https://builds.apache.org/job/PreCommit-YARN-Build/5567//testReport/
Console output: https://builds.apache.org/job/PreCommit-YARN-Build/5567//console

This message is automatically generated.

Jian He added a comment - 27/Oct/14 01:17

> It's inside the run method, so I wrap it with runTimeException

Ignore this comment, I changed to use PrivilegedExceptionAction whose run method declares exception.

Hadoop QA added a comment - 27/Oct/14 02:47

+1 overall. Here are the results of testing the latest attachment
http://issues.apache.org/jira/secure/attachment/12677214/YARN-2704.3.patch
against trunk revision caecd9f.

+1 @author. The patch does not contain any @author tags.

+1 tests included. The patch appears to include 7 new or modified test files.

+1 javac. The applied patch does not increase the total number of javac compiler warnings.

+1 javadoc. There were no new javadoc warning messages.

+1 eclipse:eclipse. The patch built with eclipse:eclipse.

+1 findbugs. The patch does not introduce any new Findbugs (version 2.0.3) warnings.

+1 release audit. The applied patch does not increase the total number of release audit warnings.

+1 core tests. The patch passed unit tests in hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager.

+1 contrib tests. The patch passed contrib unit tests.

Test results: https://builds.apache.org/job/PreCommit-YARN-Build/5574//testReport/
Console output: https://builds.apache.org/job/PreCommit-YARN-Build/5574//console

This message is automatically generated.

Vinod Kumar Vavilapalli added a comment - 27/Oct/14 15:57

Very close! Hopefully last set of comments:

- "configure ResourceManager as the proxy-user so that it can ResourceManager requests to ask for new tokens behalf of the user." -> "configure ResourceManager system-user as the proxy-user so that ResourceManager can itself ask for new tokens on behalf of the user when tokens are past their max-life-time."
- RM_SYSTEM_CREDENTIALS_VALID_TIME_REMAINING: Don't put in YarnConfiguration, move it to DelegationTokenRenewer itself
- SystemCredentialsProto -> SystemCredentialsForAppProto
- SystemCredentialsProto.value -> credentialsForApp
- Why is the following removed? "- if (this.token==null || this.applicationId==null || this.conf==null) {"

Jian He added a comment - 27/Oct/14 18:09

> if (this.token==null || this.applicationId==null || this.conf==null) {"

because this null checks can not happen, and was causing previous find bugs warning.

Jian He added a comment - 27/Oct/14 18:11

Fixed previous comments

Hadoop QA added a comment - 27/Oct/14 19:47

+1 overall. Here are the results of testing the latest attachment
http://issues.apache.org/jira/secure/attachment/12677352/YARN-2704.4.patch
against trunk revision c05b581.

+1 @author. The patch does not contain any @author tags.

+1 tests included. The patch appears to include 7 new or modified test files.

+1 javac. The applied patch does not increase the total number of javac compiler warnings.

+1 javadoc. There were no new javadoc warning messages.

+1 eclipse:eclipse. The patch built with eclipse:eclipse.

+1 findbugs. The patch does not introduce any new Findbugs (version 2.0.3) warnings.

+1 release audit. The applied patch does not increase the total number of release audit warnings.

+1 core tests. The patch passed unit tests in hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager.

+1 contrib tests. The patch passed contrib unit tests.

Test results: https://builds.apache.org/job/PreCommit-YARN-Build/5579//testReport/
Console output: https://builds.apache.org/job/PreCommit-YARN-Build/5579//console

This message is automatically generated.

Vinod Kumar Vavilapalli added a comment - 27/Oct/14 22:45

+1, looks good. Checking this in.

Vinod Kumar Vavilapalli added a comment - 27/Oct/14 22:48

This is critical for long running services. Getting this in as a critical item for 2.6.

Vinod Kumar Vavilapalli added a comment - 27/Oct/14 22:52

Committed this to trunk, branch-2 and branch-2.6. Thanks Jian!

Hudson added a comment - 27/Oct/14 22:52

FAILURE: Integrated in Hadoop-trunk-Commit #6357 (See https://builds.apache.org/job/Hadoop-trunk-Commit/6357/)
YARN-2704. Changed ResourceManager to optionally obtain tokens itself for the sake of localization and log-aggregation for long-running services. Contributed by Jian He. (vinodkv: rev a16d022ca4313a41425c8e97841c841a2d6f2f54)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/security/DelegationTokenRenewer.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/test/java/org/apache/hadoop/yarn/server/api/protocolrecords/TestProtocolRecords.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMContextImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/ContainerManagerImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/TestContainerManagerRecovery.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMAppManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/DummyContainerManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/conf/YarnConfiguration.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/Context.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/java/org/apache/hadoop/yarn/server/api/protocolrecords/NodeHeartbeatResponse.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/TestNodeStatusUpdater.java

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/yarn-default.xml
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/ResourceLocalizationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/TestResourceLocalizationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/security/TestDelegationTokenRenewer.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeStatusUpdaterImpl.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/logaggregation/LogAggregationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/ResourceTrackerService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/TestLocalCacheDirectoryManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/proto/yarn_server_common_service_protos.proto
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/java/org/apache/hadoop/yarn/server/api/protocolrecords/impl/pb/NodeHeartbeatResponsePBImpl.java

Hudson added a comment - 28/Oct/14 11:50

SUCCESS: Integrated in Hadoop-Yarn-trunk #726 (See https://builds.apache.org/job/Hadoop-Yarn-trunk/726/)
YARN-2704. Changed ResourceManager to optionally obtain tokens itself for the sake of localization and log-aggregation for long-running services. Contributed by Jian He. (vinodkv: rev a16d022ca4313a41425c8e97841c841a2d6f2f54)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/TestResourceLocalizationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/yarn-default.xml
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/java/org/apache/hadoop/yarn/server/api/protocolrecords/NodeHeartbeatResponse.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/TestLocalCacheDirectoryManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/LogAggregationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/ResourceTrackerService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/TestNodeStatusUpdater.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/DummyContainerManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/conf/YarnConfiguration.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/java/org/apache/hadoop/yarn/server/api/protocolrecords/impl/pb/NodeHeartbeatResponsePBImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeStatusUpdaterImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/test/java/org/apache/hadoop/yarn/server/api/protocolrecords/TestProtocolRecords.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeManager.java
- hadoop-yarn-project/CHANGES.txt
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/proto/yarn_server_common_service_protos.proto
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMContextImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/TestContainerManagerRecovery.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/Context.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/security/TestDelegationTokenRenewer.java

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/ContainerManagerImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/security/DelegationTokenRenewer.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMAppManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/ResourceLocalizationService.java

---

⌄ ◌ Hudson added a comment - 28/Oct/14 13:35

FAILURE: Integrated in Hadoop-Mapreduce-trunk #1940 (See https://builds.apache.org/job/Hadoop-Mapreduce-trunk/1940/)
YARN-2704. Changed ResourceManager to optionally obtain tokens itself for the sake of localization and log-aggregation for long-running
services. Contributed by Jian He. (vinodkv: rev a16d022ca4313a41425c8e97841c841a2d6f2f54)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  common/src/test/java/org/apache/hadoop/yarn/server/api/protocolrecords/TestProtocolRecords.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/ResourceLocalizationService.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/NodeStatusUpdaterImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/TestLocalCacheDirectoryManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/Context.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/ContainerManagerImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMAppManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/yarn-default.xml
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  common/src/main/proto/yarn_server_common_service_protos.proto
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/security/TestDelegationTokenRenewer.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/ResourceTrackerService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  common/src/main/java/org/apache/hadoop/yarn/server/api/protocolrecords/impl/pb/NodeHeartbeatResponsePBImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/conf/YarnConfiguration.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMContextImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/TestNodeStatusUpdater.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/TestContainerManagerRecovery.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/DummyContainerManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/TestResourceLocalizationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/LogAggregationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  common/src/main/java/org/apache/hadoop/yarn/server/api/protocolrecords/NodeHeartbeatResponse.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-
  resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/security/DelegationTokenRenewer.java

---

⌄ ◌ Hudson added a comment - 28/Oct/14 14:21

SUCCESS: Integrated in Hadoop-Hdfs-trunk #1915 (See https://builds.apache.org/job/Hadoop-Hdfs-trunk/1915/)
YARN-2704. Changed ResourceManager to optionally obtain tokens itself for the sake of localization and log-aggregation for long-running
services. Contributed by Jian He. (vinodkv: rev a16d022ca4313a41425c8e97841c841a2d6f2f54)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/TestContainerManagerRecovery.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMContext.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/java/org/apache/hadoop/yarn/server/api/protocolrecords/impl/pb/NodeHeartbeatResponsePBImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/Context.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeStatusUpdaterImpl.java
- hadoop-yarn-project/CHANGES.txt
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-api/src/main/java/org/apache/hadoop/yarn/conf/YarnConfiguration.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/TestNodeStatusUpdater.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-common/src/main/resources/yarn-default.xml
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/security/DelegationTokenRenewer.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/DummyContainerManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/test/java/org/apache/hadoop/yarn/server/resourcemanager/security/TestDelegationTokenRenewer.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMContextImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/LogAggregationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/proto/yarn_server_common_service_protos.proto
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/TestLocalCacheDirectoryManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/ResourceTrackerService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/main/java/org/apache/hadoop/yarn/server/api/protocolrecords/NodeHeartbeatResponse.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/ContainerManagerImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-resourcemanager/src/main/java/org/apache/hadoop/yarn/server/resourcemanager/RMAppManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-common/src/test/java/org/apache/hadoop/yarn/server/api/protocolrecords/TestProtocolRecords.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/ResourceLocalizationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/TestResourceLocalizationService.java

---

Hudson added a comment - 01/Nov/14 23:41

FAILURE: Integrated in Hadoop-trunk-Commit #6422 (See https://builds.apache.org/job/Hadoop-trunk-Commit/6422/)
YARN-2790. Fixed a NodeManager bug that was causing log-aggregation to fail beyond HFDS delegation-token expiry even when RM is a proxy-user (YARN-2704). Contributed by Jian He. (vinodkv: rev 5c0381c96aa79196829edbca497c649eb6776944)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/TestLogAggregationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/AppLogAggregatorImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/LogAggregationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeManager.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/NodeStatusUpdaterImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/ResourceLocalizationService.java

Hudson added a comment - 02/Nov/14 11:50

SUCCESS: Integrated in Hadoop-Yarn-trunk #731 (See https://builds.apache.org/job/Hadoop-Yarn-trunk/731/)
~~YARN-2790~~. Fixed a NodeManager bug that was causing log-aggregation to fail beyond HFDS delegation-token expiry even when RM is a proxy-user (~~YARN-2704~~). Contributed by Jian He. (vinodkv: rev 5c0381c96aa79196829edbca497c649eb6776944)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/ResourceLocalizationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/LogAggregationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/TestLogAggregationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/AppLogAggregatorImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeStatusUpdaterImpl.java
- hadoop-yarn-project/CHANGES.txt

Hudson added a comment - 02/Nov/14 14:16

SUCCESS: Integrated in Hadoop-Hdfs-trunk #1920 (See https://builds.apache.org/job/Hadoop-Hdfs-trunk/1920/)
~~YARN-2790~~. Fixed a NodeManager bug that was causing log-aggregation to fail beyond HFDS delegation-token expiry even when RM is a proxy-user (~~YARN-2704~~). Contributed by Jian He. (vinodkv: rev 5c0381c96aa79196829edbca497c649eb6776944)

- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/AppLogAggregatorImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/LogAggregationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeStatusUpdaterImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeManager.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/ResourceLocalizationService.java
- hadoop-yarn-project/CHANGES.txt
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/TestLogAggregationService.java

Hudson added a comment - 02/Nov/14 15:15

FAILURE: Integrated in Hadoop-Mapreduce-trunk #1945 (See https://builds.apache.org/job/Hadoop-Mapreduce-trunk/1945/)
~~YARN-2790~~. Fixed a NodeManager bug that was causing log-aggregation to fail beyond HFDS delegation-token expiry even when RM is a proxy-user (~~YARN-2704~~). Contributed by Jian He. (vinodkv: rev 5c0381c96aa79196829edbca497c649eb6776944)

- 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/logaggregation/AppLogAggregatorImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/test/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/TestLogAggregationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/logaggregation/LogAggregationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/containermanager/localizer/ResourceLocalizationService.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeStatusUpdaterImpl.java
- hadoop-yarn-project/hadoop-yarn/hadoop-yarn-server/hadoop-yarn-server-nodemanager/src/main/java/org/apache/hadoop/yarn/server/nodemanager/NodeManager.java

Bo Wang added a comment - 16/Mar/15 15:12

Why not guard the call of requestNewHdfsDelegationToken with hasProxyUserPrivileges in handleAppSubmitEvent in DelegationTokenRenewer.java? RM I see you do guard the call with hasProxyUserPrivileges in requestNewHdfsDelegationTokenIfNeeded. With this patch, applications, whose client doesn't pass hdfs delegation tokens to RM, will fail to start with diagnostics "$yarn_user is not allowed to impersonate $app_user".

Jian He added a comment - 16/Mar/15 18:53

> Why not guard the call of requestNewHdfsDelegationToken with hasProxyUserPrivileges

Isn't this guarded already ? see below code

```
private void requestNewHdfsDelegationToken(ApplicationId applicationId,
    String user, boolean shouldCancelAtEnd) throws IOException,
    InterruptedException {
  if (!hasProxyUserPrivileges) {
    LOG.info("RM proxy-user privilege is not enabled. Skip requesting hdfs tokens.");
    return;
  }
```

 ◯ **Bo Wang** added a comment - 16/Mar/15 19:42

Thank you for your quick reply. You are correct. The problem is that I failed to add resource manager as a hadoop proxy user in core-site.xml.

People

Assignee:

◯ Jian He

Reporter:

◯ Jian He

Votes:

0 Vote for this issue

Watchers:

14 Start watching this issue

Dates

Created:

17/Oct/14 18:23

Updated:

09/Apr/15 21:50

Resolved:

27/Oct/14 22:52