

**git\_comments:**

1. maybe the overseer queue is backed up, we don't want to fail the create request because of this time out, continue

**git\_commits:**

1. **summary:** SOLR-11990: Create Collection API now waits for the updated state of the withCollection to be visible after setting the COLOCATED\_WITH value  
**message:** SOLR-11990: Create Collection API now waits for the updated state of the withCollection to be visible after setting the COLOCATED\_WITH value Sometimes deletion of the withCollection succeeds even though the linked collection exists, if the delete request is sent immediately after the creation of the linked collection. This is because of a race between the delete request and the zookeeper update made by create collection such that the COLOCATED\_WITH property is not visible to the overseer collection processor during the delete request. Therefore, we now wait until the property is visible before returning a success to the user. The test also adds more asserts so that a similar race will fail the test immediately with a proper assert message.

**github\_issues:**

**github\_issues\_comments:**

**github\_pulls:**

**github\_pulls\_comments:**

**github\_pulls\_reviews:**

**jira\_issues:**

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**description:** It is necessary to co-locate replicas of different collection together in a node when cross-collection joins are performed. while creating a collection specify the parameter `{{withCollection=other-collection-name}}` . This ensure that Solr always ensure that atleast one replica of `{{other-collection}}` is present with this collection replicas This requires changing create collection, create shard and add replica APIs as well because we want a replica of collection A to be created first before a replica of collection B is created so that join queries etc are always possible. Some caveats to this implementation: # The `{{other-collection}}` should only have a single shard named "shard1" # Any replica of `{{other-collection}}` created by this feature will be of NRT type Removing the above caveats can be a goal of other issues.
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collection}} created by this feature will be of NRT type Removing the above caveats can be a goal of other issues.

80. **summary:** Make it possible to co-locate replicas of multiple collections together in a node  
**description:** It is necessary to co-locate replicas of different collection together in a node when cross-collection joins are performed. while creating a collection specify the parameter {{withCollection=other-collection-name}} . This ensure that Solr always ensure that atleast one replica of {{other-collection}} is present with this collection replicas This requires changing create collection, create shard and add replica APIs as well because we want a replica of collection A to be created first before a replica of collection B is created so that join queries etc are always possible. Some caveats to this implementation: # The {{other-collection}} should only have a single shard named "shard1" # Any replica of {{other-collection}} created by this feature will be of NRT type Removing the above caveats can be a goal of other issues.
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{{other-collection}} should only have a single shard named "shard1" # Any replica of {{other-collection}} created by this feature will be of NRT type Removing the above caveats can be a goal of other issues.

86. **summary:** Make it possible to co-locate replicas of multiple collections together in a node  
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#### jira\_issues\_comments:

1. First cut of the feature. It only supports `withCollection` for collections with a single shard because we do not have access to the other clauses (specifically the collection and shard values) at the time of the Operand.match operation. There is still a lot of work and tests left: # Collection APIs need to be fixed to pre-create `withCollection` replicas before replicas of `collection` can be created. # Delete `withCollection` replicas if `collection` replicas are moved or deleted
2. New patch removes broken support for multi-shard `withCollection`. It is not possible to support such a feature today because of ambiguity about how to co-locate multi-shard collections together. We can tackle that in a later issue. The goal behind this issue is to be support joining collections which usually means co-locating a multi-shard `collection` with a single-shard `withCollection`
3. **body:** The ideal syntax for such a feature would be `{code:java} //place all replicas of collection 'comment' where collection 'article' is present {"replica" : "#ALL", "collection" : "comment", "withCollection" : "article" }` With this feature \* we expect the collection {{"article"}} to be created first. If {{"article"}} is not present creation of collection {{"comment"}} must fail \* The collection {{"article"}} must have only one shard \* when {{"comments"}} collection is created, it must first identify nodes where replicas are going to be created, and then it must go on and create replicas of {{"article"}} in all those nodes \* When a new replica (or a shard) is created for {{"comment"}} , it must do the same as create collection I seriously think it is a lot of work . We will have to change the way the collection APIs work. The way the rules are computed in the Policy framework also needs to change specifically for this use case. The APIs are not written to handle multiple collections simultaneously. I think it will be much easier if we just make this as a collection attribute and deal it specially there. That way, we don't have to touch the Policy framework at all  
**label:** code-design
4. **body:** I've attached another approach which does not modify the policy framework directly but instead modifies Suggesters and Collection APIs to maintain the co-location of two collections. This is still a work in progress and has many nocommits.  
**label:** code-design
5. New patch that removes the WITH\_COLLECTION hint, further reducing the amount of changes needed. Tests have been added for create collection, add replica and move replica operations. There are a few changes here that I will extracted to their own issues and commit independently e.g. solrj support for modify collection.
6. Patch updated to master after the commits on SOLR-12506 and SOLR-12507.
7. **body:** This patch: # Changes the approach to use a new ConditionType called WITH\_COLLECTION that ensures that we project add replica correctly i.e. during computation, adding a replica for the main collection also adds a replica for the with collection so that we don't generate bad suggestions at all # SolrClientNodeStateProvider is aware of the `withCollection` flag and returns them in the state # Move replica, delete collection APIs are aware of with collection # New integration tests in TestWithCollection.testNodeAdded # Still a few nocommits left  
**label:** code-design
8. I added more changes on top of Noble's last patch and pushed it to a branch {{jira/solr-11990}}. Changes: # Removed nocommit in CreateCollectionCmd. Now we do all input validations before we try to assign replicas so that in case the collection could not be created, we are not left with dangling collection references in the cluster state # Added more tests in {{TestWithCollection.testNodeAdded}} and {{TestPolicy.testWithColl}}



9. More changes have been pushed to the branch: # Support for suggestions API are in place #  
WITH\_COLLECTION is not a global tag and similarly the violations/suggestions are also per node #  
New {{TestPolicy.testWithCollectionSuggestions}} to test suggestions I think this is ready. I'll wait for a  
final review by [~noble.paul] before merging to master.
10. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/master from  
[~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it  
possible to co-locate replicas of multiple collections together in a node. A collection may be co-located  
with another collection during collection creation time by specifying a 'withCollection' parameter. It can  
also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced  
regardless of future cluster operations whether they are invoked manually via the Collection API or  
automatically by the Autoscaling framework. Squashed commit of the following: commit  
3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit  
7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit  
1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one  
way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import  
commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues  
after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281  
Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge  
branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc #  
solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java #  
solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit  
bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the  
policy engine otherwise move to the next candidate replica or the next candidate node commit  
a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection  
violations should prefer moving replicas before adding replicas commit  
7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify  
collection API when modifying the withCollection parameter commit  
63aec4fe0de7025c16b6ebc47dad1004531ecee1 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing  
how to colocate collections together including guarantees and limitations commit  
6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections  
which are colocated with two different collections and ensures that create collection and add replica  
operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin  
Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or  
start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts  
commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Wed Jul 25 19:19:07 2018 +0530 SOLR-11990: Added description of the  
new withCollection parameter in the reference guide commit  
9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit  
ae508165571b1afde54337859b8d5fddb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create  
collection API commit 84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made  
in CreateCollectionCmd to the simulated version so that simulation tests are able to create collections  
correctly commit defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for  
return statement commit 8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Tue Jul 24 16:11:45 2018 +0530 SOLR-11990: Replace usage of forbidden  
Charsets with StandardCharsets class commit 2d1b9eb25ea96a3a42c000ae654400ed44c17554 Author:

Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:07:36 2018 +0530 SOLR-11990: Extract ConditionType to an interface VarType along with a WithCollectionVarType implementation commit 1de2a4f52a59afca28de75bfa5156a3d6567a4f5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 12:53:26 2018 +0530 SOLR-11990: Pass strict-ness parameter to the ConditionType so that WITH\_COLLECTION can choose not to project add replica in strict mode. This ensures that add replica or move replica suggesters always choose nodes that already have withCollection replicas first unless there are violations in doing so. Only if the first pass fails to find a suitable replica, do we go to the other nodes in the cluster. This also removes the need for the majority of changes in AddReplicaSuggester and so they've been reverted. commit 0d616ed9e9bad791548c87086cba7760d724350d Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 11:36:34 2018 +0530 SOLR-11990: Minor changes to formatting and code comments commit 1228538f934f35f15797d89c2c66f2deb9cddd8c Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Mon Jul 23 14:26:19 2018 +0530 SOLR-11990: Added a test which simulates a lost node and asserts that move replica suggester moves the replica on the lost node to a node already having the withCollection present commit 582f1fd98de93ab73c74a1f623749dd031beb381 Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE removing unnecessary System.out.println commit 501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit 4824933fd6eb7d1773acbff1a1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 14:30:52 2018 +0530 SOLR-11990: Added WITH\_COLLECTION to global tags. Fixed implementation of addViolatingReplicas and getSuggestions in the clause impl. Added more asserts in testWithCollectionSuggestions. commit dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added support for comparing violations, generating suggestions and adding violating replicas commit ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature. commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node

11. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/master from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located with another collection during collection creation time by specifying a 'withCollection' parameter. It can also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced regardless of future cluster operations whether they are invoked manually via the Collection API or automatically by the Autoscaling framework. Squashed commit of the following: commit 3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit 7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit 1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the

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removing unnecessary System.out.println commit 501bc6c1d066321b344bbb8b1de3c2ead52f8c49  
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ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org>

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12. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/master from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located with another collection during collection creation time by specifying a 'withCollection' parameter. It can also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced regardless of future cluster operations whether they are invoked manually via the Collection API or automatically by the Autoscaling framework. Squashed commit of the following: commit 3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org>
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Date: Fri Jul 20 14:30:52 2018 +0530 SOLR-11990: Added WITH\_COLLECTION to global tags. Fixed  
implementation of addViolatingReplicas and getSuggestions in the clause impl. Added more asserts in  
testWithCollectionSuggestions. commit dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin  
Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added  
support for comparing violations, generating suggestions and adding violating replicas commit  
ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use  
the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature.  
commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in  
nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar  
Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to  
co-locate replicas of multiple collections together in a node

19. Commit 179c8f9b48af9bf3c327226d0e1fdbe460c4a325 in lucene-solr's branch refs/heads/master from  
[~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it  
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Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the policy engine otherwise move to the next candidate replica or the next candidate node commit a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection violations should prefer moving replicas before adding replicas commit 7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit 63aec4fe0de7025c16b6ebc47dad1004531ecce1 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing how to colocate collections together including guarantees and limitations commit 6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections which are colocated with two different collections and ensures that create collection and add replica operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:19:07 2018 +0530 SOLR-11990: Added description of the new withCollection parameter in the reference guide commit 9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit ae508165571b1afde54337859b8d5fdbb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create collection API commit 84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made in CreateCollectionCmd to the simulated version so that simulation tests are able to create collections correctly commit defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for return statement commit 8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:11:45 2018 +0530 SOLR-11990: Replace usage of forbidden Charsets with StandardCharsets class commit 2d1b9eb25ea96a3a42c000ae654400ed44c17554 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:07:36 2018 +0530 SOLR-11990: Extract ConditionType to an interface VarType along with a WithCollectionVarType implementation commit 1de2a4f52a59afca28de75bfa5156a3d6567a4f5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 12:53:26 2018 +0530 SOLR-11990: Pass strict-ness parameter to the ConditionType so that WITH\_COLLECTION can choose not to project add replica in strict mode. 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removing unnecessary System.out.println commit 501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit 4824933fd6eb7d1773acbff1a1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 14:30:52 2018 +0530 SOLR-11990: Added WITH\_COLLECTION to global tags. Fixed implementation of addViolatingReplicas and getSuggestions in the clause impl. Added more asserts in testWithCollectionSuggestions. commit dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added support for comparing violations, generating suggestions and adding violating replicas commit ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature. commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node

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Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar Mangar <shalin@apache.org>  
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25. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/master from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located



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Squashed commit of the following: commit 3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit 7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit 1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the policy engine otherwise move to the next candidate replica or the next candidate node commit a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection violations should prefer moving replicas before adding replicas commit 7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit 63aec4fe0de7025c16b6ebc47dad1004531ecce1 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing how to colocate collections together including guarantees and limitations commit 6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections which are colocated with two different collections and ensures that create collection and add replica operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:19:07 2018 +0530 SOLR-11990: Added description of the new withCollection parameter in the reference guide commit 9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit ae508165571b1afde54337859b8d5fddb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create collection API commit 84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made in CreateCollectionCmd to the simulated version so that simulation tests are able to create collections correctly commit defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for return statement commit 8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:11:45 2018 +0530 SOLR-11990: Replace usage of forbidden Charsets with StandardCharsets class commit 2d1b9eb25ea96a3a42c000ae654400ed44c17554 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:07:36 2018 +0530 SOLR-11990: Extract ConditionType to an interface VarType along with a WithCollectionVarType implementation commit 1de2a4f52a59afca28de75bfa5156a3d6567a4f5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 12:53:26 2018 +0530 SOLR-11990: Pass strict-ness parameter to

the ConditionType so that WITH\_COLLECTION can choose not to project add replica in strict mode. This ensures that add replica or move replica suggesters always choose nodes that already have withCollection replicas first unless there are violations in doing so. Only if the first pass fails to find a suitable replica, do we go to the other nodes in the cluster. This also removes the need for the majority of changes in AddReplicaSuggester and so they've been reverted. commit

0d616ed9e9bad791548c87086cba7760d724350d Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Tue Jul 24 11:36:34 2018 +0530 SOLR-11990: Minor changes to formatting and code comments

commit 1228538f934f35f15797d89c2c66f2deb9cddd8c Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Mon Jul 23 14:26:19 2018 +0530 SOLR-11990: Added a test which

simulates a lost node and asserts that move replica suggester moves the replica on the lost node to a node already having the withCollection present commit 582f1fd98de93ab73c74a1f623749dd031beb381

Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE

removing unnecessary System.out.println commit 501bc6c1d066321b344bbb8b1de3c2ead52f8c49

Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE

during class init commit acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit

4824933fd6eb7d1773acbff1a1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Fri Jul 20 14:30:52 2018 +0530 SOLR-11990: Added WITH\_COLLECTION to global tags. Fixed implementation of addViolatingReplicas and getSuggestions in the clause impl. Added more asserts in

testWithCollectionSuggestions. commit dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin

Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added

support for comparing violations, generating suggestions and adding violating replicas commit

ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature.

commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in

nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar

Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to

co-locate replicas of multiple collections together in a node

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3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit

7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit

1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one

way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import

commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues

after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281

Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge

branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc #

solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java #

solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit

bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the

policy engine otherwise move to the next candidate replica or the next candidate node commit

a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection

violations should prefer moving replicas before adding replicas commit

7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit  
63aec4fe0de7025c16b6ebc47dad1004531ecee1 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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ae508165571b1afde54337859b8d5fdbb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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582f1fd98de93ab73c74a1f623749dd031beb381 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE removing unnecessary System.out.println commit  
501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit  
acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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<shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in  
nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar  
Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to  
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solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit  
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582f1fd98de93ab73c74a1f623749dd031beb381 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE removing unnecessary System.out.println commit  
501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit  
acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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4824933fd6eb7d1773acbffa1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org>  
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582f1fd98de93ab73c74a1f623749dd031beb381 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE removing unnecessary System.out.println commit  
501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit  
acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit  
4824933fd6eb7d1773acbff1a1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 20 14:30:52 2018 +0530 SOLR-11990: Added WITH\_COLLECTION to global tags. Fixed implementation of addViolatingReplicas and getSuggestions in the clause impl. Added more asserts in testWithCollectionSuggestions. commit  
dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added

- support for comparing violations, generating suggestions and adding violating replicas commit  
ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use  
the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature.  
commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in  
nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar  
Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to  
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33. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/master from  
[~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it  
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3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit  
7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one  
way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import  
commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues  
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branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc #  
solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java #  
solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit  
bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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collection API commit 84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made  
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correctly commit defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for return statement commit 8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:11:45 2018 +0530 SOLR-11990: Replace usage of forbidden Charsets with StandardCharsets class commit 2d1b9eb25ea96a3a42c000ae654400ed44c17554 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:07:36 2018 +0530 SOLR-11990: Extract ConditionType to an interface VarType along with a WithCollectionVarType implementation commit 1de2a4f52a59afca28de75bfa5156a3d6567a4f5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 12:53:26 2018 +0530 SOLR-11990: Pass strict-ness parameter to the ConditionType so that WITH\_COLLECTION can choose not to project add replica in strict mode. This ensures that add replica or move replica suggesters always choose nodes that already have withCollection replicas first unless there are violations in doing so. Only if the first pass fails to find a suitable replica, do we go to the other nodes in the cluster. This also removes the need for the majority of changes in AddReplicaSuggester and so they've been reverted. commit 0d616ed9e9bad791548c87086cba7760d724350d Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 11:36:34 2018 +0530 SOLR-11990: Minor changes to formatting and code comments commit 1228538f934f35f15797d89c2c66f2deb9cddd8c Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Mon Jul 23 14:26:19 2018 +0530 SOLR-11990: Added a test which simulates a lost node and asserts that move replica suggester moves the replica on the lost node to a node already having the withCollection present commit 582f1fd98de93ab73c74a1f623749dd031beb381 Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE removing unnecessary System.out.println commit 501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit 4824933fd6eb7d1773acbff1a1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 14:30:52 2018 +0530 SOLR-11990: Added WITH\_COLLECTION to global tags. Fixed implementation of addViolatingReplicas and getSuggestions in the clause impl. Added more asserts in testWithCollectionSuggestions. commit dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added support for comparing violations, generating suggestions and adding violating replicas commit ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature. commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node

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Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added support for comparing violations, generating suggestions and adding violating replicas commit ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature. commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node

38. Commit 179c8f9b48af9bf3c327226d0e1fdbe460c4a325 in lucene-solr's branch refs/heads/master from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located with another collection during collection creation time by specifying a 'withCollection' parameter. It can also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced regardless of future cluster operations whether they are invoked manually via the Collection API or automatically by the Autoscaling framework. Squashed commit of the following: commit 3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit 7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit 1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one

way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import  
commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281  
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41. Thanks [~noble.paul] for the help in designing and reviewing this piece.

42. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/jira/http2 from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located with another collection during collection creation time by specifying a 'withCollection' parameter. It can also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced regardless of future cluster operations whether they are invoked manually via the Collection API or automatically by the Autoscaling framework. 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simulates a lost node and asserts that move replica suggester moves the replica on the lost node to a node already having the withCollection present commit 582f1fd98de93ab73c74a1f623749dd031beb381

Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE

removing unnecessary System.out.println commit 501bc6c1d066321b344bbb8b1de3c2ead52f8c49

Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE

during class init commit acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit

4824933fd6eb7d1773acbff1a1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Fri Jul 20 14:30:52 2018 +0530 SOLR-11990: Added WITH\_COLLECTION to global tags. Fixed implementation of addViolatingReplicas and getSuggestions in the clause impl. Added more asserts in

testWithCollectionSuggestions. commit dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin

Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added

support for comparing violations, generating suggestions and adding violating replicas commit

ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature.

commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in

nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar

Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to

co-locate replicas of multiple collections together in a node

43. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/jira/http2 from

[~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located

with another collection during collection creation time by specifying a 'withCollection' parameter. It can also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced

regardless of future cluster operations whether they are invoked manually via the Collection API or

automatically by the Autoscaling framework. Squashed commit of the following: commit

3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit

7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit

1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one

way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import

commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues

after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281

Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge

branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc #

solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java #

solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit

bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the

policy engine otherwise move to the next candidate replica or the next candidate node commit

a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection

violations should prefer moving replicas before adding replicas commit



7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit

63aec4fe0de7025c16b6ebc47dad1004531ecee1 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing how to colocate collections together including guarantees and limitations commit

6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections which are colocated with two different collections and ensures that create collection and add replica operations work correctly commit

4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts commit

70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 19:19:07 2018 +0530 SOLR-11990: Added description of the new withCollection parameter in the reference guide commit

9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit

ae508165571b1afde54337859b8d5fdbb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create collection API commit

84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made in CreateCollectionCmd to the simulated version so that simulation tests are able to create collections correctly commit

defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for return statement commit

8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Tue Jul 24 16:11:45 2018 +0530 SOLR-11990: Replace usage of forbidden Charsets with StandardCharsets class commit

2d1b9eb25ea96a3a42c000ae654400ed44c17554 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Tue Jul 24 16:07:36 2018 +0530 SOLR-11990: Extract ConditionType to an interface VarType along with a WithCollectionVarType implementation commit

1de2a4f52a59afca28de75bfa5156a3d6567a4f5 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Tue Jul 24 12:53:26 2018 +0530 SOLR-11990: Pass strict-ness parameter to the ConditionType so that WITH\_COLLECTION can choose not to project add replica in strict mode. This ensures that add replica or move replica suggesters always choose nodes that already have withCollection replicas first unless there are violations in doing so. Only if the first pass fails to find a suitable replica, do we go to the other nodes in the cluster. This also removes the need for the majority of changes in AddReplicaSuggester and so they've been reverted. commit

0d616ed9e9bad791548c87086cba7760d724350d Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Tue Jul 24 11:36:34 2018 +0530 SOLR-11990: Minor changes to formatting and code comments commit

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582f1fd98de93ab73c74a1f623749dd031beb381 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE removing unnecessary System.out.println commit

501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit

acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit

4824933fd6eb7d1773acbffa1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org>  
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nodeValue configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node

44. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/jira/http2 from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located with another collection during collection creation time by specifying a 'withCollection' parameter. It can also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced regardless of future cluster operations whether they are invoked manually via the Collection API or automatically by the Autoscaling framework. Squashed commit of the following: commit 3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit 7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit 1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the policy engine otherwise move to the next candidate replica or the next candidate node commit a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection violations should prefer moving replicas before adding replicas commit 7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit 63aec4fe0de7025c16b6ebc47dad1004531ecee1 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing how to colocate collections together including guarantees and limitations commit 6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections which are colocated with two different collections and ensures that create collection and add replica operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:19:07 2018 +0530 SOLR-11990: Added description of the new withCollection parameter in the reference guide commit 9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit ae508165571b1afde54337859b8d5fddb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create collection API commit 84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made in CreateCollectionCmd to the simulated version so that simulation tests are able to create collections correctly commit defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for return statement commit 8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:11:45 2018 +0530 SOLR-11990: Replace usage of forbidden Charsets with StandardCharsets class commit 2d1b9eb25ea96a3a42c000ae654400ed44c17554 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:07:36 2018 +0530 SOLR-11990:

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1de2a4f52a59afca28de75bfa5156a3d6567a4f5 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit  
acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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4824933fd6eb7d1773acbffa1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org>  
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dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin Shekhar Mangar <shalin@apache.org>  
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ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use

- the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature.  
commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node
46. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/jira/http2 from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located with another collection during collection creation time by specifying a 'withCollection' parameter. It can also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced regardless of future cluster operations whether they are invoked manually via the Collection API or automatically by the Autoscaling framework. Squashed commit of the following: commit 3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit 7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit 1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the policy engine otherwise move to the next candidate replica or the next candidate node commit a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection violations should prefer moving replicas before adding replicas commit 7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit 63aec4fe0de7025c16b6ebc47dad1004531ecee1 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing how to colocate collections together including guarantees and limitations commit 6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections which are colocated with two different collections and ensures that create collection and add replica operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:19:07 2018 +0530 SOLR-11990: Added description of the new withCollection parameter in the reference guide commit 9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit ae508165571b1afde54337859b8d5fddb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create collection API commit 84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made in CreateCollectionCmd to the simulated version so that simulation tests are able to create collections correctly commit defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for return statement commit 8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar

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49. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/jira/http2 from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located with another collection during collection creation time by specifying a 'withCollection' parameter. It can also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced regardless of future cluster operations whether they are invoked manually via the Collection API or automatically by the Autoscaling framework. Squashed commit of the following: commit 3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit 7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit 1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge

branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc #  
solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java #  
solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit  
bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the  
policy engine otherwise move to the next candidate replica or the next candidate node commit  
a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection  
violations should prefer moving replicas before adding replicas commit  
7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify  
collection API when modifying the withCollection parameter commit  
63aec4fe0de7025c16b6ebc47dad1004531ecee1 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing  
how to colocate collections together including guarantees and limitations commit  
6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections  
which are colocated with two different collections and ensures that create collection and add replica  
operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin  
Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or  
start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts  
commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar  
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<shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the policy engine otherwise move to the next candidate replica or the next candidate node commit a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection violations should prefer moving replicas before adding replicas commit 7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit 63aec4fe0de7025c16b6ebc47dad1004531ecce1 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing how to colocate collections together including guarantees and limitations commit 6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections which are colocated with two different collections and ensures that create collection and add replica operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:19:07 2018 +0530 SOLR-11990: Added description of the new withCollection parameter in the reference guide commit 9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit ae508165571b1afde54337859b8d5fddb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create collection API commit 84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made in CreateCollectionCmd to the simulated version so that simulation tests are able to create collections correctly commit defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for return statement commit 8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:11:45 2018 +0530 SOLR-11990: Replace usage of forbidden Charsets with StandardCharsets class commit 2d1b9eb25ea96a3a42c000ae654400ed44c17554 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:07:36 2018 +0530 SOLR-11990: Extract ConditionType to an interface VarType along with a WithCollectionVarType implementation commit 1de2a4f52a59afca28de75bfa5156a3d6567a4f5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 12:53:26 2018 +0530 SOLR-11990: Pass strict-ness parameter to the ConditionType so that WITH\_COLLECTION can choose not to project add replica in strict mode. 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Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the policy engine otherwise move to the next candidate replica or the next candidate node commit a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection violations should prefer moving replicas before adding replicas commit 7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit 63aec4fe0de7025c16b6ebc47dad1004531ecee1 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing how to colocate collections together including guarantees and limitations commit 6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections which are colocated with two different collections and ensures that create collection and add replica operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:19:07 2018 +0530 SOLR-11990: Added description of the new withCollection parameter in the reference guide commit 9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit ae508165571b1afde54337859b8d5fdbb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create collection API commit 84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made in CreateCollectionCmd to the simulated version so that simulation tests are able to create collections correctly commit defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for return statement commit 8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:11:45 2018 +0530 SOLR-11990: Replace usage of forbidden Charsets with StandardCharsets class commit 2d1b9eb25ea96a3a42c000ae654400ed44c17554 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:07:36 2018 +0530 SOLR-11990: Extract ConditionType to an interface VarType along with a WithCollectionVarType implementation commit 1de2a4f52a59afca28de75bfa5156a3d6567a4f5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 12:53:26 2018 +0530 SOLR-11990: Pass strict-ness parameter to the ConditionType so that WITH\_COLLECTION can choose not to project add replica in strict mode. This ensures that add replica or move replica suggesters always choose nodes that already have withCollection replicas first unless there are violations in doing so. Only if the first pass fails to find a suitable replica, do we go to the other nodes in the cluster. This also removes the need for the majority of changes in AddReplicaSuggester and so they've been reverted. commit 0d616ed9e9bad791548c87086cba7760d724350d Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 11:36:34 2018 +0530 SOLR-11990: Minor changes to formatting and code comments commit 1228538f934f35f15797d89c2c66f2deb9cddd8c Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Mon Jul 23 14:26:19 2018 +0530 SOLR-11990: Added a test which simulates a lost node and asserts that move replica suggester moves the replica on the lost node to a node already having the withCollection present commit 582f1fd98de93ab73c74a1f623749dd031beb381 Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE removing unnecessary System.out.println commit 501bc6c1d066321b344bbb8b1de3c2ead52f8c49

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54. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/jira/http2 from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located with another collection during collection creation time by specifying a 'withCollection' parameter. It can also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced regardless of future cluster operations whether they are invoked manually via the Collection API or automatically by the Autoscaling framework. Squashed commit of the following: commit 3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit 7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit 1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the policy engine otherwise move to the next candidate replica or the next candidate node commit a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection violations should prefer moving replicas before adding replicas commit 7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit 63aec4fe0de7025c16b6ebc47dad1004531ecee1 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing how to colocate collections together including guarantees and limitations commit 6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections which are colocated with two different collections and ensures that create collection and add replica operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar

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59. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/jira/http2 from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located with another collection during collection creation time by specifying a 'withCollection' parameter. It can

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Squashed commit of the following: commit 3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit 7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit 1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the policy engine otherwise move to the next candidate replica or the next candidate node commit a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection violations should prefer moving replicas before adding replicas commit 7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit 63aec4fe0de7025c16b6ebc47dad1004531ecee1 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing how to colocate collections together including guarantees and limitations commit 6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections which are colocated with two different collections and ensures that create collection and add replica operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:19:07 2018 +0530 SOLR-11990: Added description of the new withCollection parameter in the reference guide commit 9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit ae508165571b1afde54337859b8d5fddb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create collection API commit 84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made in CreateCollectionCmd to the simulated version so that simulation tests are able to create collections correctly commit defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for return statement commit 8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:11:45 2018 +0530 SOLR-11990: Replace usage of forbidden Charsets with StandardCharsets class commit 2d1b9eb25ea96a3a42c000ae654400ed44c17554 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:07:36 2018 +0530 SOLR-11990: Extract ConditionType to an interface VarType along with a WithCollectionVarType implementation commit 1de2a4f52a59afca28de75bfa5156a3d6567a4f5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 12:53:26 2018 +0530 SOLR-11990: Pass strict-ness parameter to the ConditionType so that WITH\_COLLECTION can choose not to project add replica in strict mode. 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61. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/jira/http2 from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located with another collection during collection creation time by specifying a 'withCollection' parameter. It can also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced regardless of future cluster operations whether they are invoked manually via the Collection API or automatically by the Autoscaling framework. Squashed commit of the following: commit 3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit 7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit 1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java # solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the policy engine otherwise move to the next candidate replica or the next candidate node commit a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection violations should prefer moving replicas before adding replicas commit 7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit 63aec4fe0de7025c16b6ebc47dad1004531ecce1 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing how to colocate collections together including guarantees and limitations commit 6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections which are colocated with two different collections and ensures that create collection and add replica operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:19:07 2018 +0530 SOLR-11990: Added description of the new withCollection parameter in the reference guide commit 9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit ae508165571b1afde54337859b8d5fddb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create collection API commit 84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made in CreateCollectionCmd to the simulated version so that simulation tests are able to create collections correctly commit defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for return statement commit 8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:11:45 2018 +0530 SOLR-11990: Replace usage of forbidden Charsets with StandardCharsets class commit 2d1b9eb25ea96a3a42c000ae654400ed44c17554 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:07:36 2018 +0530 SOLR-11990: Extract ConditionType to an interface VarType along with a WithCollectionVarType implementation commit 1de2a4f52a59afca28de75bfa5156a3d6567a4f5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 12:53:26 2018 +0530 SOLR-11990: Pass strict-ness parameter to

the ConditionType so that WITH\_COLLECTION can choose not to project add replica in strict mode. This ensures that add replica or move replica suggesters always choose nodes that already have withCollection replicas first unless there are violations in doing so. Only if the first pass fails to find a suitable replica, do we go to the other nodes in the cluster. This also removes the need for the majority of changes in AddReplicaSuggester and so they've been reverted. commit

0d616ed9e9bad791548c87086cba7760d724350d Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Tue Jul 24 11:36:34 2018 +0530 SOLR-11990: Minor changes to formatting and code comments

commit 1228538f934f35f15797d89c2c66f2deb9cddd8c Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Mon Jul 23 14:26:19 2018 +0530 SOLR-11990: Added a test which

simulates a lost node and asserts that move replica suggester moves the replica on the lost node to a node already having the withCollection present commit 582f1fd98de93ab73c74a1f623749dd031beb381

Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE

removing unnecessary System.out.println commit 501bc6c1d066321b344bbb8b1de3c2ead52f8c49

Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE

during class init commit acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit

4824933fd6eb7d1773acbff1a1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Fri Jul 20 14:30:52 2018 +0530 SOLR-11990: Added WITH\_COLLECTION to global tags. Fixed implementation of addViolatingReplicas and getSuggestions in the clause impl. Added more asserts in

testWithCollectionSuggestions. commit dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin

Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added

support for comparing violations, generating suggestions and adding violating replicas commit

ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature.

commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in

nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar

Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to

co-locate replicas of multiple collections together in a node

62. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/jira/http2 from

[~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it

possible to co-locate replicas of multiple collections together in a node. A collection may be co-located

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also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced

regardless of future cluster operations whether they are invoked manually via the Collection API or

automatically by the Autoscaling framework. Squashed commit of the following: commit

3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit

7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit

1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one

way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import

commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar

<shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues

after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281

Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge

branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc #

solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java #

solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit

bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the

policy engine otherwise move to the next candidate replica or the next candidate node commit

a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org>

Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection

violations should prefer moving replicas before adding replicas commit



7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify collection API when modifying the withCollection parameter commit  
63aec4fe0de7025c16b6ebc47dad1004531ecee1 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing how to colocate collections together including guarantees and limitations commit  
6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin Shekhar Mangar <shalin@apache.org>  
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70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar <shalin@apache.org>  
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9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit  
ae508165571b1afde54337859b8d5fdbb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create collection API commit  
84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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582f1fd98de93ab73c74a1f623749dd031beb381 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE removing unnecessary System.out.println commit  
501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit  
acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org>  
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 <shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in  
 nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar  
 Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to  
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Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE removing unnecessary System.out.println commit  
501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit  
acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit  
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Date: Mon Jul 23 14:26:19 2018 +0530 SOLR-11990: Added a test which simulates a lost node and asserts that move replica suggester moves the replica on the lost node to a node already having the withCollection present commit  
582f1fd98de93ab73c74a1f623749dd031beb381 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE removing unnecessary System.out.println commit  
501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org>  
Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit  
acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit  
4824933fd6eb7d1773acbff1a1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 20 14:30:52 2018 +0530 SOLR-11990: Added WITH\_COLLECTION to global tags. Fixed implementation of addViolatingReplicas and getSuggestions in the clause impl. Added more asserts in testWithCollectionSuggestions. commit  
dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added



support for comparing violations, generating suggestions and adding violating replicas commit  
ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use  
the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature.  
commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in  
nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar  
Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to  
co-locate replicas of multiple collections together in a node

67. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/jira/http2 from  
[~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it  
possible to co-locate replicas of multiple collections together in a node. A collection may be co-located  
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automatically by the Autoscaling framework. Squashed commit of the following: commit  
3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit  
7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit  
1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one  
way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import  
commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues  
after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281  
Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge  
branch 'master' into jira/solr-11990 # Conflicts: # solr/solr-ref-guide/src/collections-api.adoc #  
solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Clause.java #  
solr/solrj/src/java/org/apache/solr/client/solrj/cloud/autoscaling/Suggestion.java commit  
bb4ffb32c4960a2809ac8927e214e1e012204a73 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 14:09:44 2018 +0530 SOLR-11990: Ensure that the suggestion are validated by the  
policy engine otherwise move to the next candidate replica or the next candidate node commit  
a97d45b22f9c232e939f979502c761001be9ae24 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 13:22:10 2018 +0530 SOLR-11990: Autoscaling suggestions for withCollection  
violations should prefer moving replicas before adding replicas commit  
7b5a84338dfe7335599a5e96aff2d26cb4eeaac6 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Fri Jul 27 12:22:45 2018 +0530 SOLR-11990: Fix statement about the behavior of the modify  
collection API when modifying the withCollection parameter commit  
63aec4fe0de7025c16b6ebc47dad1004531ecee1 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Thu Jul 26 07:29:07 2018 +0530 SOLR-11990: Added new page to the reference guide describing  
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6bfcd0786bb30353de9c26a01ec97ce3191b58f8 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 21:42:25 2018 +0530 SOLR-11990: Added another test which creates two collections  
which are colocated with two different collections and ensures that create collection and add replica  
operations work correctly commit 4cead778f0044b6fb4012b085abf7b60350f495b Author: Shalin  
Shekhar Mangar <shalin@apache.org> Date: Wed Jul 25 21:07:47 2018 +0530 SOLR-11990: Stop or  
start jettys in test setup to ensure that we always have exactly 2 replicas running before a test starts  
commit 70dbfd042c2164fcd76d406eeab1518e4d3147fb Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Wed Jul 25 19:19:07 2018 +0530 SOLR-11990: Added description of the  
new withCollection parameter in the reference guide commit  
9d8260852b9d667d4d8e026432fd7727b7789393 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 19:16:46 2018 +0530 SOLR-11990: Reset count down latch during test setup commit  
ae508165571b1afde54337859b8d5fbbb1d67312 Author: Shalin Shekhar Mangar <shalin@apache.org>  
Date: Wed Jul 25 15:43:54 2018 +0530 SOLR-11990: Add support for withCollection in simulated create  
collection API commit 84f026b8c4cc25edb548430b8f5ad09d2486b3b5 Author: Shalin Shekhar Mangar  
<shalin@apache.org> Date: Tue Jul 24 17:21:33 2018 +0530 SOLR-11990: Ported the refactoring made  
in CreateCollectionCmd to the simulated version so that simulation tests are able to create collections

correctly commit defe111c9d31c8e4f0f00b4f2f3c875f5b2fa602 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:17:52 2018 +0530 SOLR-11990: Add missing javadoc for return statement commit 8e47d5bc4545548c5441909c3fcc1a7901b38185 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:11:45 2018 +0530 SOLR-11990: Replace usage of forbidden Charsets with StandardCharsets class commit 2d1b9eb25ea96a3a42c000ae654400ed44c17554 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 16:07:36 2018 +0530 SOLR-11990: Extract ConditionType to an interface VarType along with a WithCollectionVarType implementation commit 1de2a4f52a59afca28de75bfa5156a3d6567a4f5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 12:53:26 2018 +0530 SOLR-11990: Pass strict-ness parameter to the ConditionType so that WITH\_COLLECTION can choose not to project add replica in strict mode. This ensures that add replica or move replica suggesters always choose nodes that already have withCollection replicas first unless there are violations in doing so. Only if the first pass fails to find a suitable replica, do we go to the other nodes in the cluster. This also removes the need for the majority of changes in AddReplicaSuggester and so they've been reverted. commit 0d616ed9e9bad791548c87086cba7760d724350d Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Tue Jul 24 11:36:34 2018 +0530 SOLR-11990: Minor changes to formatting and code comments commit 1228538f934f35f15797d89c2c66f2deb9cddd8c Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Mon Jul 23 14:26:19 2018 +0530 SOLR-11990: Added a test which simulates a lost node and asserts that move replica suggester moves the replica on the lost node to a node already having the withCollection present commit 582f1fd98de93ab73c74a1f623749dd031beb381 Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:35:22 2018 +1000 SOLR-11990: NPE removing unnecessary System.out.println commit 501bc6c1d066321b344bbb8b1de3c2ead52f8c49 Author: Noble Paul <noble@apache.org> Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit 4824933fd6eb7d1773acbff1a1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 14:30:52 2018 +0530 SOLR-11990: Added WITH\_COLLECTION to global tags. Fixed implementation of addViolatingReplicas and getSuggestions in the clause impl. Added more asserts in testWithCollectionSuggestions. commit dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added support for comparing violations, generating suggestions and adding violating replicas commit ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature. commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node

68. Commit 179c8f9b48af9bf3c327226d0e1fdb460c4a325 in lucene-solr's branch refs/heads/jira/http2 from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=179c8f9> ] SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node. A collection may be co-located with another collection during collection creation time by specifying a 'withCollection' parameter. It can also be co-located afterwards by using the modify collection API. The co-location guarantee is enforced regardless of future cluster operations whether they are invoked manually via the Collection API or automatically by the Autoscaling framework. Squashed commit of the following: commit 3827703b38c598f1247c90ab57d3d640ab3a9e21 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:54:10 2018 +0530 SOLR-11990: Added change log entry commit 7977222e07ba47274062cb8d8a69e7956d644000 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:52:17 2018 +0530 SOLR-11990: Added change log entry commit 1857075fdb9d535b6149ad4369fed8b64b0c01f6 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 11:49:51 2018 +0530 SOLR-11990: Added note about co-location guarantees being one way only commit 8557cbc8a511f21d1fcad99e11ea9d2104d0bef4 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:43:37 2018 +0530 SOLR-11990: Remove unused import commit 864b013fd744edca9b6b84a8a7573fab3c5310d5 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:21:59 2018 +0530 SOLR-11990: Fixing compilation issues after merging master commit dd840a2f7e765ee96c899d4d9ea89b6b67c5ae62 Merge: bb4ffb3 828d281 Author: Shalin Shekhar Mangar <shalin@apache.org> Date: Sat Jul 28 10:03:50 2018 +0530 Merge

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- Date: Mon Jul 23 18:31:07 2018 +1000 SOLR-11990: NPE during class init commit acbf4a69321e16cff11cc7cf0a1f076fd9ac0037 Author: Shalin Shekhar Mangar <shalin@apache.org>
- Date: Mon Jul 23 13:55:30 2018 +0530 SOLR-11990: Added asserts on the nodes that should be selected by the add replica suggester commit 4824933fd6eb7d1773acbff1a1a0c5e670226e0b Author: Shalin Shekhar Mangar <shalin@apache.org>
- Date: Fri Jul 20 14:30:52 2018 +0530 SOLR-11990: Added WITH\_COLLECTION to global tags. Fixed implementation of addViolatingReplicas and getSuggestions in the clause impl. Added more asserts in testWithCollectionSuggestions. commit dbadb33211c190026e08d8e3ea587b6f8df8720b Author: Shalin Shekhar Mangar <shalin@apache.org>
- Date: Fri Jul 20 13:44:36 2018 +0530 SOLR-11990: Added support for comparing violations, generating suggestions and adding violating replicas commit ada1f17d5c93a4186260473e4822d2bee1da0e16 Author: Shalin Shekhar Mangar <shalin@apache.org>
- Date: Wed Jul 18 19:14:56 2018 +0530 SOLR-11990: Fix mock node state provider in TestPolicy to use the right cluster state. Added nocommits to ensure that we return the right suggestions for this feature. commit ef2d61812e0d96eb2275b3411906d9de57ab835e Author: Shalin Shekhar Mangar <shalin@apache.org>
- Date: Wed Jul 18 18:39:51 2018 +0530 SOLR-11990: Add missing node in nodeValues configuration commit 34841fc01fea4a9f1e6a9f64050e576f2247a72b Author: Shalin Shekhar Mangar <shalin@apache.org>
- Date: Wed Jul 18 16:32:57 2018 +0530 SOLR-11990: Make it possible to co-locate replicas of multiple collections together in a node
72. Commit e46c6b83a40a34d3ed7047c516936ac445401f69 in lucene-solr's branch refs/heads/master from [~ctargett] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=e46c6b8> ] SOLR-11990: standardize "co-locate" for "colocate" throughout
73. Commit d3829efc412223386a3e8e722c17b008843d4b8c in lucene-solr's branch refs/heads/branch\_7x from [~ctargett] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=d3829ef> ] SOLR-11990: standardize "co-locate" for "colocate" throughout
74. Re-opening due to the TestWithCollection failures on jenkins. Also, [~steve\_rowe] reported privately that when a CREATE command fails because of a policy rule violation, the collection metadata remains in ZooKeeper, even though no replicas are added, so the user has to manually delete the zombie collection. This is also due to the changes made in this issue.
75. The {{TestWithCollection.testDeleteWithCollection}} fails because after collection is created, we try to delete the linked collection immediately and sometimes the delete request races with the zookeeper update made by create collection such that the COLOCATED\_WITH property is not visible to the

- overseer collection processor during the delete request. Therefore the delete request succeeds even though it should fail because a linked collection exists. The attached `{{SOLR-11990-TestWithCollection-testDeleteWithCollection-fixes.patch}}` adds a `waitForState` command to the `CreateCollectionCmd` so that the latest state is visible to the overseer. I also added more asserts so that a successful deletion should fail the test.
76. Commit `0530d05c734c4eb0d99a12389520069a144a636f` in lucene-solr's branch `refs/heads/branch_7x` from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=0530d05> ] SOLR-11990: Create Collection API now waits for the updated state of the `withCollection` to be visible after setting the `COLOCATED_WITH` value Sometimes deletion of the `withCollection` succeeds even though the linked collection exists, if the delete request is sent immediately after the creation of the linked collection. This is because of a race between the delete request and the zookeeper update made by create collection such that the `COLOCATED_WITH` property is not visible to the overseer collection processor during the delete request. Therefore, we now wait until the property is visible before returning a success to the user. The test also adds more asserts so that a similar race will fail the test immediately with a proper assert message.
  77. Commit `6e21cb3aa9451ae72d450ce2e2bb4216a37a7ac8` in lucene-solr's branch `refs/heads/master` from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=6e21cb3> ] SOLR-11990: Create Collection API now waits for the updated state of the `withCollection` to be visible after setting the `COLOCATED_WITH` value Sometimes deletion of the `withCollection` succeeds even though the linked collection exists, if the delete request is sent immediately after the creation of the linked collection. This is because of a race between the delete request and the zookeeper update made by create collection such that the `COLOCATED_WITH` property is not visible to the overseer collection processor during the delete request. Therefore, we now wait until the property is visible before returning a success to the user. The test also adds more asserts so that a similar race will fail the test immediately with a proper assert message.
  78. Simple `{{SOLR-11990-fix.patch}}` to fix the regression. I'll commit this once precommit and tests pass. I've fixed this because it is a change in behavior from before but the bug is bigger than this fix alone. Any exception after the collection is created in ZK can cause the same problem. I'll open a separate issue to fix the full problem.
  79. Commit `5670d612e3f2512d85c972b5fc717586118a19d5` in lucene-solr's branch `refs/heads/master` from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=5670d61> ] SOLR-11990: When a Collection CREATE command fails because of a policy rule violation, the collection metadata remains in ZooKeeper, even though no replicas are added, so the user has to manually delete the zombie collection. This is due to a change in behavior made in this issue where collection metadata creation was moved before attempting to use policy to place replicas. This change reverts the behavior by explicitly deleting the metadata when an `AssignmentException` occurs. Since the policy depends on collection metadata such as `WITH_COLLECTION` and `COLOCATED_WITH` properties, moving metadata creation after policy use would have resulted in passing these properties through the entire call stack quite invasively. Therefore the current approach is adopted.
  80. Commit `cc5fdbf387d03e4ab0c8bc73c14d60d6fdaa3dc5` in lucene-solr's branch `refs/heads/branch_7x` from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=cc5fdbf> ] SOLR-11990: When a Collection CREATE command fails because of a policy rule violation, the collection metadata remains in ZooKeeper, even though no replicas are added, so the user has to manually delete the zombie collection. This is due to a change in behavior made in this issue where collection metadata creation was moved before attempting to use policy to place replicas. This change reverts the behavior by explicitly deleting the metadata when an `AssignmentException` occurs. Since the policy depends on collection metadata such as `WITH_COLLECTION` and `COLOCATED_WITH` properties, moving metadata creation after policy use would have resulted in passing these properties through the entire call stack quite invasively. Therefore the current approach is adopted. (cherry picked from commit `5670d612e3f2512d85c972b5fc717586118a19d5`)
  81. Commit `4d78db26be21727fa29b0c055f24e0bac625e017` in lucene-solr's branch `refs/heads/master` from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=4d78db2> ] SOLR-11990: Set `waitForFinalState=true` for the move replica API call so that the cluster is at steady state when the test ends.
  82. Commit `5b23a375e30f156ae1fe4f35377d922a6fded091` in lucene-solr's branch `refs/heads/branch_7x` from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=5b23a37> ] SOLR-11990: Set `waitForFinalState=true` for the move replica API call so that the cluster is at steady state when the test ends. (cherry picked from commit `4d78db26be21727fa29b0c055f24e0bac625e017`)

83. Commit df20c4b9e6f9ff3408c7eaf9ceea7a1656a72ff8 in lucene-solr's branch refs/heads/master from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=df20c4b> ] SOLR-11990: Wait for all nodes to be live before running tests. A few tests have failed on jenkins where the very first call to Solr to set the policy fails because no live nodes were found. This commit adds a 30 second (max) wait for nodes to be registered live in ZK before attempting to run any test.
84. Commit e03dabb742bc81f071a7941c330a437610860abd in lucene-solr's branch refs/heads/branch\_7x from [~shalin] [ <https://git-wip-us.apache.org/repos/asf?p=lucene-solr.git;h=e03dabb> ] SOLR-11990: Wait for all nodes to be live before running tests. A few tests have failed on jenkins where the very first call to Solr to set the policy fails because no live nodes were found. This commit adds a 30 second (max) wait for nodes to be registered live in ZK before attempting to run any test. (cherry picked from commit df20c4b9e6f9ff3408c7eaf9ceea7a1656a72ff8)