

Cloudera Runtime 7.3.1

## Troubleshooting Apache Atlas

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# CLOUDERA

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## Atlas index repair configuration

You can use reindexing to troubleshoot Apache Atlas basic search inconsistency.

### Rebuilding the whole Atlas index

In your Cloudera Manager instance running the Atlas service, add the following in Atlas Server Advanced Configuration Snippet (Safety Valve) for conf/atlas-application.properties.

```
atlas.rebuild.index=true
```

```
atlas.patch.numWorkers=3
```

```
atlas.patch.batchSize=300
```

Later, restart the Atlas Service.



#### Attention:

- You must revert back this configuration once the reindexing is completed, else the reindexing takes place on every restart.
- The reindexing process will be done during Atlas restart, so Atlas will not be reachable till reindexing process is completed.
- The time taken for reindexing depends upon the amount of data.

### Rebuilding the index for particular GUID

Incorrect search results related to a particular GUID can be repaired by limiting the reindex to that element.

```
atlas-index-repair/repair_index.py [-g <***GUID***>]
```



#### Note:

Atlas will use REST APIs to fetch the entity, which will need the correct authentication mechanism to be specified based on the installation.

For an Atlas installation with username and password use the following:

```
atlas-index-repair/repair_index.py [-g <***GUID***>] [-u <***USER***>] [-p <***PASSWORD***>] *  
guid: [optional]
```

Example:

```
atlas-index-repair/repair_index.py -u admin -p admin123 -g 13d77457-2a45-4e92-ad53-a172c7cb70a5
```

For Atlas installations using Kerberos as authentication mode, use the following:

```
kinit -kt /etc/security/keytabs/atlas.service.keytab atlas/fqdn@DOMAIN
```

Example:

```
kinit -kt /etc/security/keytabs/atlas.service.keytab atlas/fqdn@EXAMPLE.com
```

```
atlas-index-repair/repair_index.py -g 13d77457-2a45-4e92-ad53-a172c7cb70a5
```



**Note:** In case of many affected entities, it is recommended to rebuild the whole index instead.

## Activating Concurrent Message Ingestion

Atlas hook message processing can take a long time with a high number of messages, greatly increasing wait times. This can be improved by turning on Concurrent Message Ingestion.

Atlas Hook message processing has linear complexity for consuming the messages. This can lead to the following:

- Enforcing authorization policies takes longer.
- Metadata showing up in Atlas takes an unpredictable amount of time.

Concurrent Message Ingestion can offset these issues by enabling the following after determining dependencies within incoming messages:

- Dependent messages are processed serially.
- Messages without dependencies are processed concurrently.

### Enabling Concurrent Message Ingestion

1. Go to Cloudera Manager Clusters Atlas Configuration .
2. Add the following property `atlas.notifications.concurrent=true`.

## Using Zookeeper in SSL mode

Using Apache Zookeeper in SSL mode requires all clients to be in SSL mode.

### About this task

Missing to activate the SSL mode for any of the Zookeeper clients can lead to the Apache Atlas user interface being inaccessible with an HTTP 503 error.

### Procedure

1. Go to Cloudera Manager Clusters HBase Configuration .

## 2. Search for HBase ZooKeeper Secure Client Enabled.

The screenshot shows the Cloudera Manager interface for Cluster 1, specifically the HBASE-1 configuration page. The search bar contains the text "HBase ZooKeeper Secure Client Enabled". The left sidebar shows the navigation menu with "Data Services" highlighted. The main content area displays the configuration for "HBase ZooKeeper Secure Client Enabled" with a checkbox for "HBASE-1 (Service-Wide)" which is currently unchecked. The filters on the left show the following counts:

SCOPE	CATEGORY	STATUS
HBASE-1 (Service-Wide) 1	Main 0	Error 0
Gateway 0	Advanced 0	Warning 0
HBase REST Server 0	Backup 0	Edited 0
HBase Thrift Server 0	Cloudera Navigator 0	Non-Default 1
Master 0	Logs 0	Include Overrides 0
RegionServer 0	Metrics 0	
	Monitoring 0	
	Performance 0	
	Ports and Addresses 0	
	Proxy 0	
	Resource Management 0	
	Security 1	
	Stacks Collection 0	

The configuration details for "HBase ZooKeeper Secure Client Enabled" are shown on the right, including the property "hbase.zookeeper.property.client.secure" and the checkbox "zookeeper\_secure\_client\_enabled".

## 3. Select the checkbox.

## 4. Save your changes.

## 5. Go Cloudera Manager Clusters Solr Configuration

## 6. Search for Enable TLS/SSL for Solr.

The screenshot shows the Cloudera Manager interface for Cluster 1, specifically the SOLR-1 configuration page. The search bar contains the text "Enable TLS/SSL for Solr". The left sidebar shows the navigation menu with "Data Services" highlighted. The main content area displays the configuration for "Enable TLS/SSL for Solr" with a checkbox for "SOLR-1 (Service-Wide)" which is currently checked. The filters on the left show the following counts:

SCOPE	CATEGORY	STATUS
SOLR-1 (Service-Wide) 1	Main 0	Error 0
Gateway 0	Advanced 0	Warning 0
Solr Server 0	Logs 0	Edited 0
	Monitoring 0	Non-Default 1
	Performance 0	Include Overrides 0
	Ports and Addresses 0	
	Resource Management 0	
	Security 1	
	Stacks Collection 0	

The configuration details for "Enable TLS/SSL for Solr" are shown on the right, including the property "solr\_use\_ssl".

## 7. Select the checkbox.

## 8. Save your changes.