# AZURE STORAGE EXPLORER 4 USER GUIDE

Azure Storage Explorer is a utility for viewing and acting on Windows Azure Storage. Windows Azure Storage is the area of the Windows Azure Cloud Computing platform that provides non-database storage in the form of blobs, queues, and tables. This documentation is for Azure Storage Explorer version 4, beta 1 (10/22/2010).

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# **CONFIGURATION**

Your configuration information (storage account credentials and preferences) is stored in the file AzureStorageExplorer.config in your user AppData folder \Users\<user>\AppData\Roaming\AzureStorageExplorer. This is an editable text file but we recommend making changes via Azure Storage Explorer.

# **BASIC NAVIGATION**

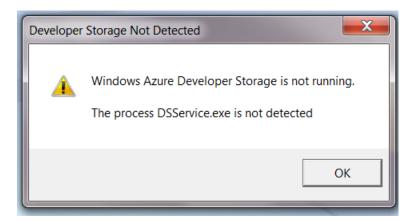
#### STORAGE ACCOUNTS

You can work with one or with multiple storage accounts. A combo box at top left allows you to select an account to work with; selecting an account opens up a tab for it. To the right of the combo box are buttons for adding a new storage account or removing the selected storage account.



#### **DEVELOPER STORAGE**

The DevStorage name is special and refers to your local Developer Storage. If you attempt to select it but Developer Storage is not running, you'll receive this error message:



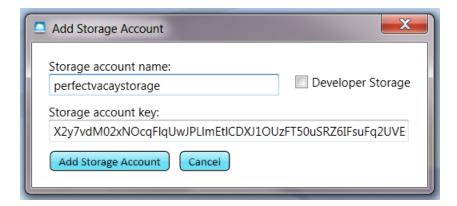
To start developer storage, select *Program Files > Windows Azure SDK > Developer Storage* from the Start Menu. Or, start an Azure application running out of Visual Studio.

# ADDING A STORAGE ACCOUNT

Click the Add Account button, which displays the dialog shown below.



For a cloud storage account, enter the account name and storage account key, then click Add Storage Account.

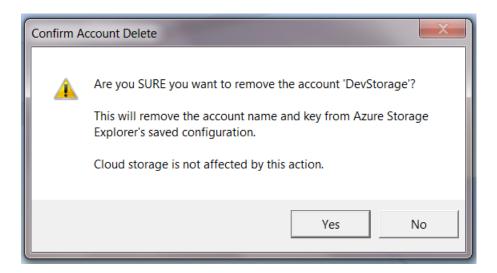


For a local Developer Storage account, just check the Developer Storage checkbox. There is no need to enter an account name or key.



#### REMOVING A STORAGE ACCOUNT

To remove a storage account, select it from the combo box then click the Remove Account button. If you confirm the delete the storage account will be removed from your configuration.

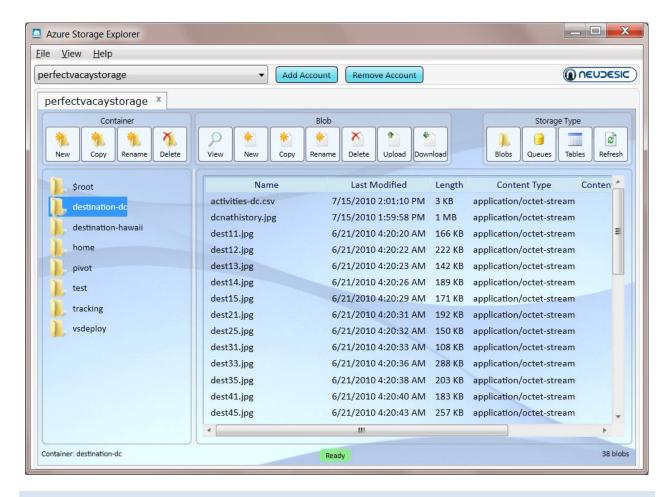


# **STORAGE ACCOUNT TABS**

When you select a storage account, a tab opens up for working with it. If you have multiple tabs open, you can move between them either by clicking on a tab or by selecting from the combo box.

A storage account tab contains:

- A toolbar (top) for selecting the kind of storage to view and performing operations.
- A folder pane (left) that shows blob containers, queues, or tables.
- An item pane (right) that lists blobs, messages, or entities for the selected item in the left pane.
- A status bar (bottom) which shows the selected container (left), status (center), and item count and size (right)

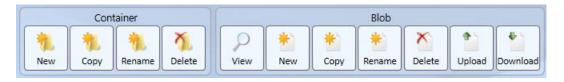


# SELECT STORAGE TO VIEW

The right-most Storage Type toolbar allows you to change your view to see views of blobs, queues or tables or to refresh the current view.

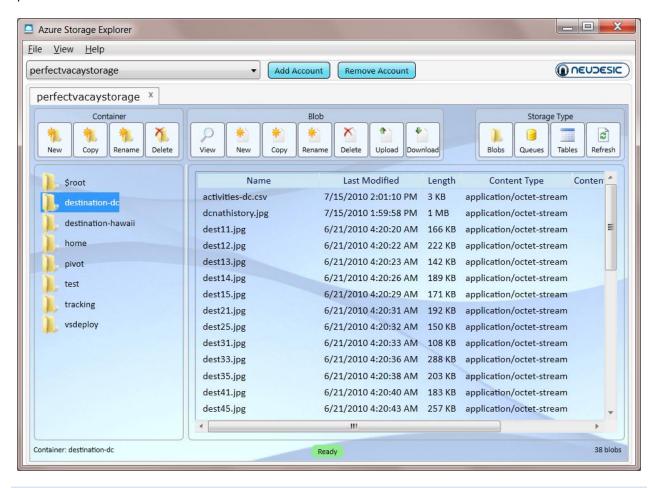


In the Blobs view, shown earlier, the left pane lists containers and the right pane lists blobs in the selected container. The Container toolbar has action buttons for containers and the Blob toolbar has action buttons for blobs.



# **WORKING WITH BLOBS**

To view blobs, open a storage account tab (blobs are the default view) or click the Blobs button on the Storage Type toolbar at top right. The left pane will list blob containers. Selecting a container will list its blobs in the right pane.



# **CONTAINER ACTIONS**

The Container toolbar allows you to take actions on containers.



The container actions are:

- New Container
- Copy Container
- Rename Container
- Delete Container

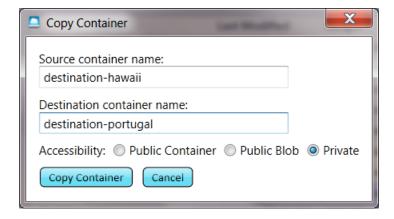
#### CREATING A NEW CONTAINER

To create a new container, click the New button in the Container toolbar. Enter a name for the container and select a level of access. Public container means the blobs are accessible as public Internet URLs as well as enumeration of the container itself. Public blob means the blobs are accessible as public Internet URLs. Private means no public Internet accessibility. Click Create Container to create a new, empty container.



#### **COPYING A CONTAINER**

To copy the selected container, click the Copy button in the Container toolbar. Enter a destination container name and if desired change the level of access. Click Copy Container to create a new container and make a copy of all blobs in the source container in the new container.



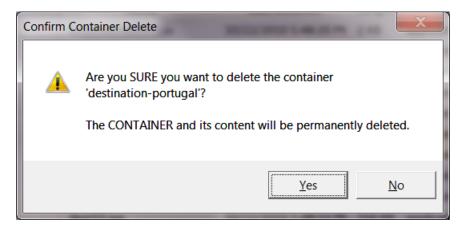
# RENAMING A CONTAINER

To rename the selected container, click the Rename button in the Container toolbar. Enter a replacement container name and if desired change the level of access. Click Rename Container to copy the container and delete the original.



# **DELETING A CONTAINER**

To delete the selected container, click the Delete button in the Container toolbar. If you confirm delete the container and all blobs it contains will be permanently deleted.



#### **BLOB ACTIONS**

The Blob toolbar allows you to take actions on blobs.



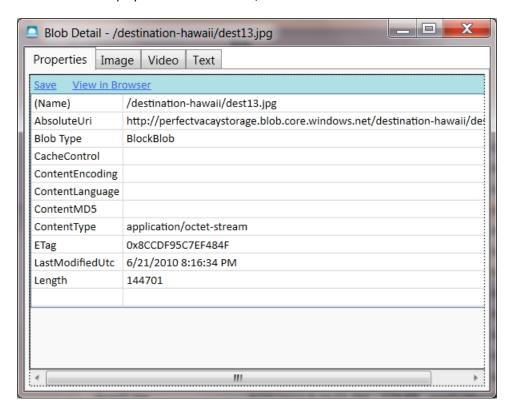
The blob actions are:

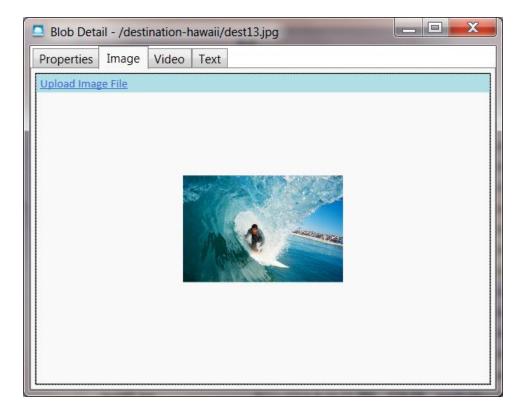
- View Blob
- New Blob
- Copy Blob
- Rename Blob
- Delete Blob
- Upload Blobs
- Download Blobs

# VIEWING A BLOB

To view a blob, either double-click it, or select it and click the View button on the Blob toolbar. A blob detail dialog appears. The detail dialog has the following tabs:

- Properties allows you to view properties. Some properties, such as ContentType, are modifiable.
- Image displays the blob content as an image
- View displays blob content as a video
- Text displays blob content as text, and allows the text to be edited and saved





Close the blob detail dialog when finished via the close box at top right.

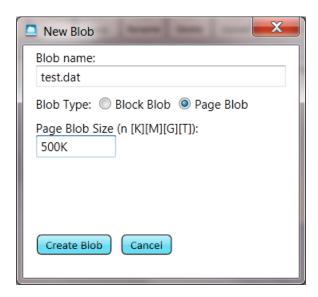
# CREATING A NEW BLOB

To create a new blob, click the New button in the Blob toolbar. Enter a name for the blob and choose a blob type, Block Blob (sequential access) or Page Blob (random access, pre-allocated size).

For a block blob, you may specify initial text content for the blob if desired.



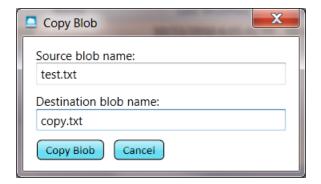
For a Page Blob, enter a size for the blob which must be a multiple of 512 bytes. You may use the suffixes K, M, G, or T in entering the size to indicate kilobytes, megabytes, gigabytes, or terabytes.



Click Create Blob to create the blob. If successful, the new blob will now appear in the right pane.

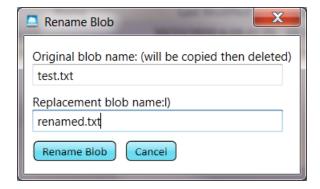
# **COPYING A BLOB**

To copy the selected blob, click the Copy button in the Blob toolbar. Enter a destination blob name. Click Copy Blob to create a new blob with the same content as the original.



# **RENAMING A BLOB**

To rename the selected blob, click the Rename button in the Blob toolbar. Enter a replacement blob name. Click Rename Blob to make copy of the blob and then delete the original.



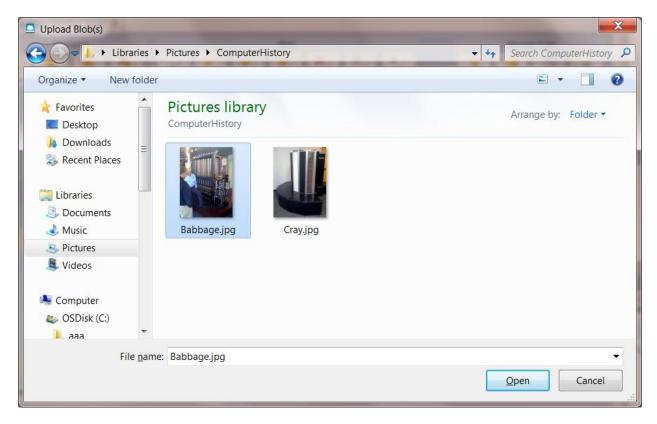
# **DELETING A BLOB**

To delete one or more blobs, select the blob(s) to be deleted then click the Delete button in the Blob toolbar. If you confirm the delete, the selected blobs will be permanently deleted.



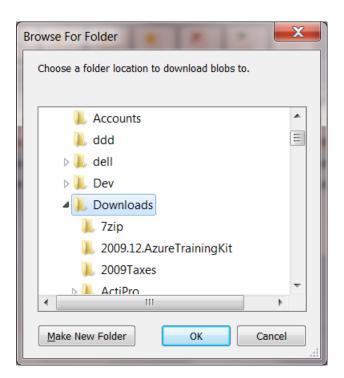
# **UPLOADING BLOBS**

To upload one or more local disk files to blob storage, click the Upload button in the Blob toolbar. Browse to the folder you want to upload from and select one or more files. Click Open to upload. The files will be uploaded to blob storage and will appear in the right pane once uploading is complete.



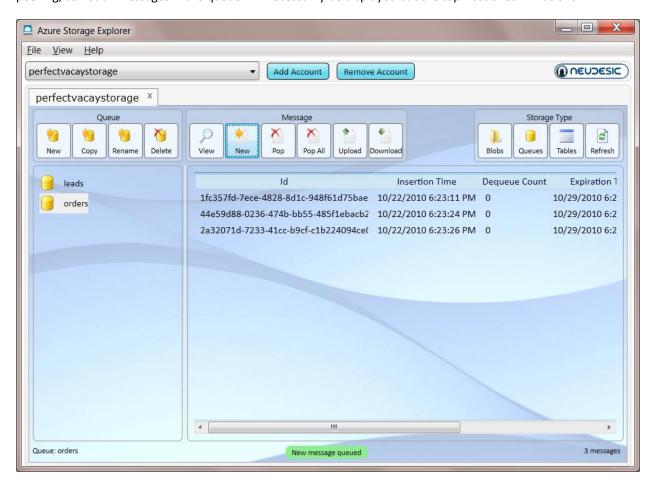
#### **DOWNLOADING BLOBS**

To download one or more blobs to local disk files, select the blob(s) to download and click the Download button on the Blob toolbar. A folder browse dialog will open. Browse to the desired folder for download and click Ok to start the download.



# **WORKING WITH QUEUES**

To view queues, open a storage account tab and click the Queues button on the Storage Type toolbar at top right. The left pane will list queues. Selecting a queue will list its messages in the right pane. The messages come from peeking, so not all messages in the queue will necessarily be displayed but the topmost ones will be shown.



# QUEUE ACTIONS

The Queue toolbar allows you to take actions on queues.

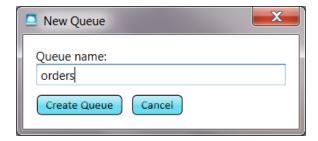


The queue actions are:

- New Queue
- Copy Queue
- Rename Queue
- Delete Queue

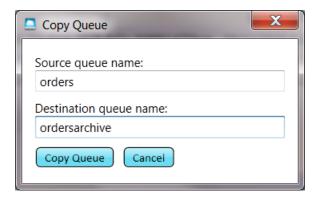
# CREATING A NEW QUEUE

To create a new queue, click the New button in the Queue toolbar. Enter a name for the queue which must be lower-case. Click Create Queue to create a new, empty queue.



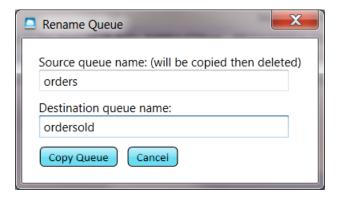
# **COPYING A QUEUE**

To copy the selected queue, click the Copy button in the Queue toolbar. Enter a destination queue. Click Copy Queue to create a new queue and make a copy of all messages in the source queue in the new queue.

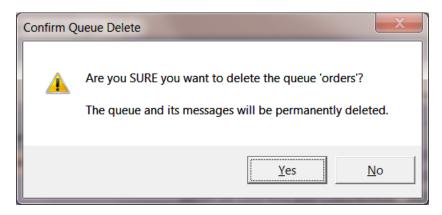


# RENAMING A QUEUE

To rename the selected queue, click the Rename button in the Queue toolbar. Enter a replacement queue name. Click Rename Queue to copy the queue and delete the original.



To delete the selected queue, click the Delete button in the Queue toolbar. If you confirm delete the queue and all messages it contains will be permanently deleted.



# **MESSAGE ACTIONS**

The Message toolbar allows you to take actions on queue messages.



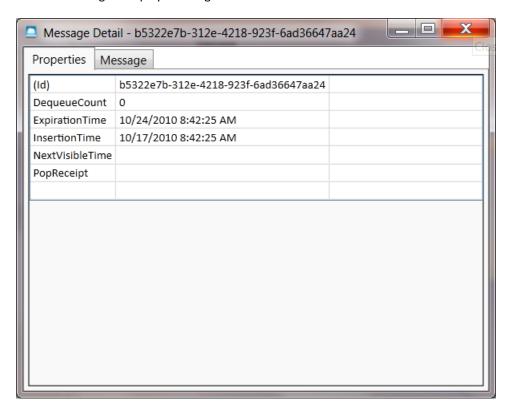
The message actions are:

- View Message
- New Message
- Pop Message
- Pop All Messages
- Upload Messages
- Download Messages

# **VIEWING A MESSAGE**

To view a message, either double-click it, or select it and click the View button on the Message toolbar. A message detail dialog appears. The detail dialog has the following tabs:

- Properties allows you to view properties. Some of these properties, such as ContentType, are modifiable.
- Message displays message content as text



Close the message detail dialog when finished via the close box at top right.

# CREATING A NEW MESSAGE

To create a new message, click the New button in the Message toolbar. Enter content for the message. Click Create Message to create the message, which will appear in the right pane once created.

```
Message content:

Order>

AccountId>1015</AccountId>
Items>

Item qty="1" sku="91024" />

Item qty="5" sku="94024" />

Items>

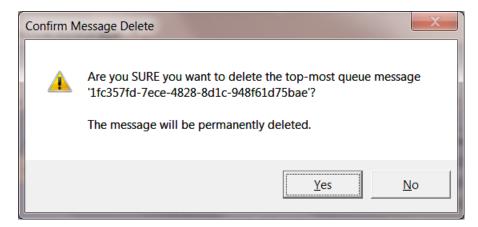
Order>

Create Message

Cancel
```

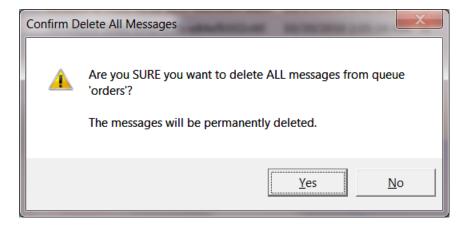
# POPPING A MESSAGE

To pop the top message off of the queue (deleting it), click the Pop button in the Message toolbar. If you confirm delete the top message will be deleted from the queue.



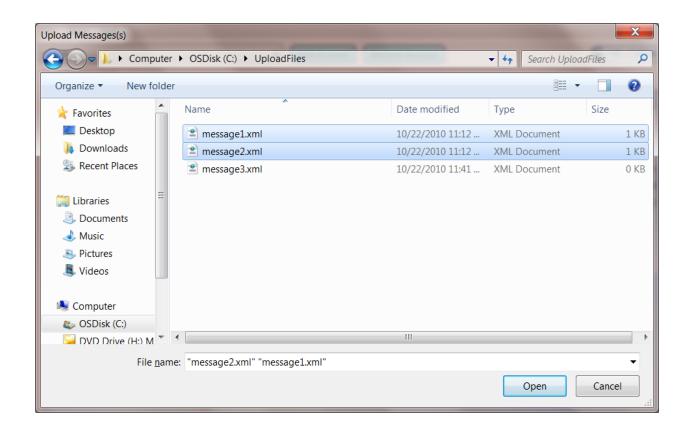
# POPPING ALL MESSAGES

To pop all messages (emptying the queue), click the Pop All button in the Message toolbar. If you confirm delete all messages will be deleted from the queue.



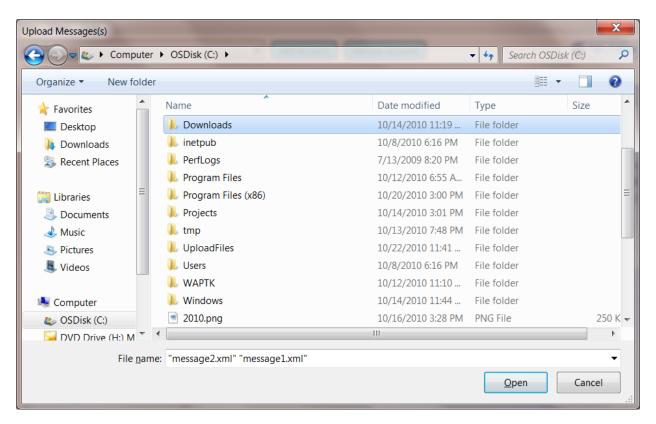
# **UPLOADING MESSAGES**

To upload one or more local disk files as queue messages, click the Upload button in the Message toolbar. Browse to the folder you want to upload from and select one or more files. Click Open to upload. The files will be uploaded to queue storage and will appear in the right pane once uploading is complete.



# DOWNLOADING MESSAGES

To download one or more messages to local disk files, select the message(s) to download and click the Download button on the Message toolbar. A folder browse dialog will open. Browse to the desired folder for download and click Ok to start the download.



# **WORKING WITH TABLES**

To view tables, open a storage account tab and click the Tables button on the Storage Type toolbar at top right. The left pane will list tables. Selecting a table will allow you to query entities which will be displayed in the right pane.



# TABLE ACTIONS

The Table toolbar allows you to take actions on tables.

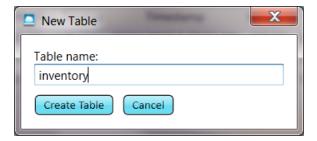


The table actions are:

- New Table
- Copy Table
- Rename Table
- Delete Table

# CREATING A NEW TABLE

To create a new table, click the New button in the Table toolbar. Enter a name for the table. Click Create Table to create a new, empty table.



# **COPYING A TABLE**

To copy the selected table, click the Copy button in the Table toolbar. Enter a destination table name. Click Copy Table to create a new table and make a copy of all entities in the source table in the new table.

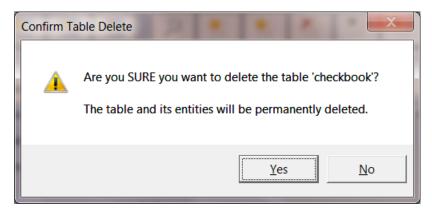


# **RENAMING A TABLE**

To rename the selected table, click the Rename button in the Table toolbar. Enter a replacement table name. Click Rename Table to copy the table and delete the original.



To delete the selected table, click the Delete button in the Table toolbar. If you confirm delete the table and all entities it contains will be permanently deleted.



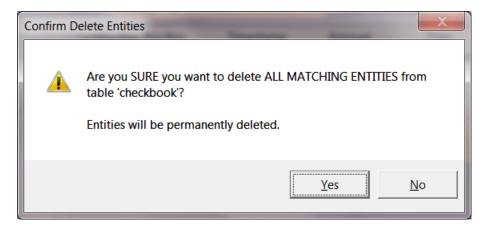
# QUERYING ENTITIES

The right pane allows you to enter a LINQ query and query for entities. A blank query will query for all entities. Click the Query button to perform the query and list matching entities. The *Max rows to return* field allows you to control the number of entities returned.



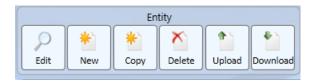
# **DELETING ENTITIES**

To delete matching entities rather than querying for them, click the Delete button to the right of the Query button. All entities matching the query will be permanently deleted.



# **ENTITY ACTIONS**

The Entity toolbar allows you to take actions on table entities.



The entity actions are:

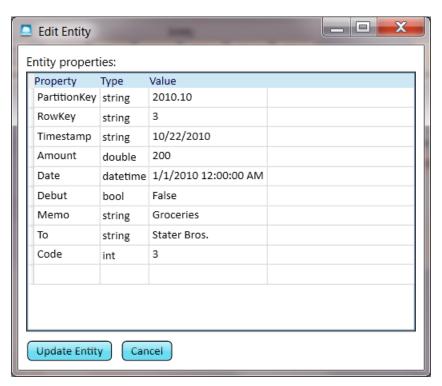
- Edit Entity
- New Entity
- Copy Entity
- Delete Entity
- Upload Entities
- Download Entities

# **EDITING AN ENTITY**

To view or edit an entity, either double-click it, or select it and click the Edit button on the Entity toolbar. An entity detail dialog appears showing the entity's properties.

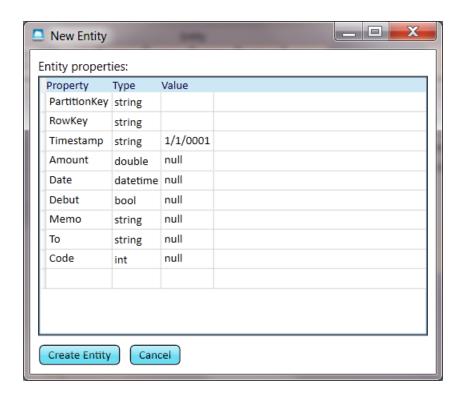
The entity properties (name, data type, value) may be edited, and you may add or remove properties. To enter a null value, enter "null".

Clicking Update Entity will update the record. RowKey is a required field. If the update changers the PartitionKey or RowKey, an add record / delete operation will be performed rather than an update record operation.



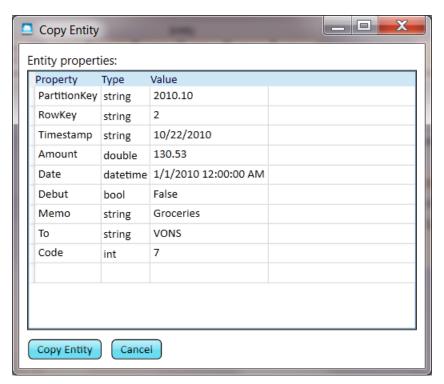
# CREATING A NEW ENTITY

To create a new entity, click the New button in the Entity toolbar. Schema (columns names/types) detected from the last query will be pre-loaded but you are free to make changes a desired. Edit the properties as described above under *Editing an Entity*. RowKey is a required field. Click Create Entity to create the new entity. The last query will refresh.



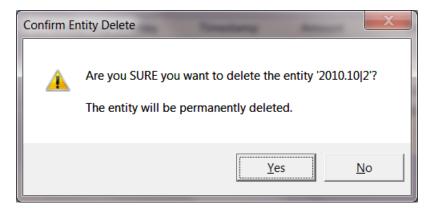
# **COPYING AN ENTITY**

To copy the selected entity, click the Copy button in the Entity toolbar. Make desired alterations to the properties. Note you must change the PartitionKey and/or RowKey. Click Copy Entity to create a new entity.



# **DELETING AN ENTITY**

To delete one or more entities, select the entities(s) to be deleted then click the Delete button in the Entity toolbar. If you confirm the delete, the selected entities will be permanently deleted.



# **UPLOADING ENTITIES**

To upload entities from a Command-Separated Values file (CSV, editable with Excel), click the Upload button in the Entity toolbar. Browse to the CSV file you want to upload. Click Open to upload. The CSV contents will be uploaded. The first row of the CSV file should contain column names; subsequent rows are data.



#### **DOWNLOADING ENTITIES**

To download one or more entities to Comma-Separated Values (CSV) file on local disk, select the blob(s) to download and click the Download button on the Entities toolbar. If you confirm the download, a file save dialog will open. Choose a folder location and filename for the CSV file to be created and click Ok. All entities from the currently selected table will be downloaded to a local CSV file. The first row of the CSV file will contain column names; subsequent rows will contain data.

