

# DuraCloud REST API

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## Notes

Each of the methods below has specific security requirements. See [DuraCloud Security](#) for more information  
Examples calling the API defined below with the Unix utility "curl" can be found [here](#)

## DuraStore

Purpose: DuraStore is the application through which DuraCloud manages storage. The DuraStore REST API provides access to storage by mediating the underlying storage provider APIs to allow access to multiple cloud storage options through a single API.

## Store REST Methods

### Get Stores

- Purpose: Provides a listing of available storage providers accounts (without credentials)
- Request: **GET** `https://host:port/durastore/stores`
- Parameters: None
- Response Code: 200 (on success)
- Response Body: XML similar to:

```
<storageProviderAccounts>
  <storageAcct isPrimary='1'>
    <id>1</id>
    <storageProviderType>AMAZON_S3</storageProviderType>
  </storageAcct>
  <storageAcct isPrimary="0">
    <id>2</id>
    <storageProviderType>RACKSPACE</storageProviderType>
  </storageAcct>
</storageProviderAccounts>
```

- Note: The value of the isPrimary attribute is 1 for true and 0 for false

## Space REST Methods

### Get Spaces

- Purpose: Provides a listing of all of the spaces that a customer has created
- Request: **GET** `https://host:port/durastore/spaces ? (storeID)`
- Response Code: 200 (on success)
- Response Body: XML similar to:

```
<spaces>
  <space id="space1" />
  <space id="space2" />
</spaces>
```

### Get Space

- Purpose: Provides a listing of the contents of a space along with space properties
- Request: **GET** `https://host:port/durastore/spaceID ? (storeID) (prefix) (maxResults) (marker)`
  - storeID (optional) - ID of the content storage provider to query (default is primary store)
  - prefix (optional) - Only retrieve content ids with this prefix (default is all content ids)
  - maxResults (optional) - The maximum number of content IDs to return in the list (default is 1000)  
**note:** the maximum allowable value for maxResults is 1000. Any larger value will be reduced to 1000.
  - marker (optional) - The content ID marking the last item in the previous set (default is the first set of ids)
- Response Code:
  - 200 (on success)
  - 404 (if the the given space does not exist)
- Response Body: XML similar to:

```
<space id="space1">
  <item>Image 1</item>
  <item>Image 2</item>
</space>
```

- Response Headers: All available space properties, example:

```
x-dura-meta-space-count: 65
x-dura-meta-space-created: 2016-04-14T01:40:47
```

### Get Space Properties

- Purpose: Provides all space properties
- Request: **HEAD** `https://host:port/durastore/spaceID ? (storeID)`
- Response Code:
  - 200 (on success)
  - 404 (if the the given space does not exist)
- Response Headers: Same as for Get space (above)

## Create Space

- Purpose: Creates a new space
- Request: **PUT** `https://host:port/durastore/spaceID ? (storeID)`
- Response Code:
  - 201 (on success)
  - 400 (if the space ID is invalid)
- Response Headers: Location of the new space (i.e. the URL used to create the space), example:

```
Location: https://myhost:8080/durastore/space1
```

## Delete Space

- Purpose: Deletes a space
- Request: **DELETE** `https://host:port/durastore/spaceID ? (storeID)`
- Response Code:
  - 200 (on success)
  - 404 (if the the given space does not exist)
- Response Body: "Space \$spaceID deleted successfully" (on success)

## Get Space ACLs

- Purpose: Provides all space ACLs, with values of 'r' (read) and 'w' (read/write)
- Request: **HEAD** `https://host:port/durastore/acl/spaceID ? (storeID)`
- Response Code:
  - 200 (on success)
  - 404 (if the the given space does not exist)
- Response Headers: All available space ACLs, example:

```
x-dura-meta-acl-user0: WRITE
x-dura-meta-acl-user1: WRITE
x-dura-meta-acl-group-curators: READ
```

## Set Space ACLs

- Purpose: Updates the ACLs associated with a space
- Request: **POST** `https://host:port/durastore/acl/spaceID ? (storeID)`
- Request Headers: For 'user' ACLs the header prefix must be 'x-dura-meta-acl-' and for 'groups' the header prefix must be 'x-dura-meta-acl-group-'. Allowable values for ACL headers are: 'READ' and 'WRITE'.  
Example:

```
x-dura-meta-acl-user0: WRITE
x-dura-meta-acl-user1: WRITE
x-dura-meta-acl-group-curators: READ
```

- Response Code:
  - 200 (on success)
  - 404 (if the the given space does not exist)
- Response Body: "Space \$spaceID ACLs updated successfully" (on success)

## Content REST Methods

### Get Content

- Purpose: Retrieves a piece of content along with its properties
- Request: **GET** `https://host:port/durastore/spaceID/contentID ? (storeID) (attachment)`
  - if attachment param value is true, a Content-Disposition header is included with the response
- Request Headers: [Range of bytes to retrieve](#) from the file (optional)

```
Range:bytes=byte_range
```

- Value of Range header must begin with "bytes=" followed by the byte range
- Only 1 byte range is supported per request, all ranges specified beyond the first are discarded
- Examples of valid Range header values:
  - bytes=0-499 (retrieves the first 500 bytes from a file)
  - bytes=500-999 (retrieves the second 500 bytes from a file)
  - bytes=1000- (retrieves all bytes starting with 1000 to the end of the file)
- Response Code:
  - 200 (on success, for a complete file)
  - 206 (on success, for a range-limited set of bytes in the file)
  - 400 (on invalid request, such as if a Range header includes an invalid value)
- Response Body: The content stream
- Response Headers: All available content properties, example:

```
Content-Type: text/plain
Content-Length: 5732
Content-MD5: 3456709234785097473839202
ETag: 3456709234785097473839202
x-dura-meta-content-name: Testing Content
x-dura-meta-content-owner: JSmith
```

## Get Content Properties

- Purpose: Retrieves the properties of a piece of content without the content itself
- Request: **HEAD** `https://host:port/durastore/spaceID/contentID ? (storeID)`
- Response Code: 200 (on success)
- Response Headers: Same as Get content (above)

## Store Content

- Purpose: Adds a piece of content to the store
- Request: **PUT** `https://host:port/durastore/spaceID/contentID ? (storeID)`
- Request Body: Content to be added
- Request Headers: Properties about the content, example:

```
Content-Type: text/plain
Content-MD5: 4cd56e137a93alaccb43c5d32f4afffb
x-dura-meta-content-name: Testing Content
x-dura-meta-content-owner: JSmith
```

- Response Code:
  - 201 (on success)
  - 400 (if the content ID is invalid)
  - 404 (if the the given space does not exist)
  - 409 (if the provided checksum did not match the stored content checksum)
  - 500 (on error)
- Response Headers:
  - MD5 checksum of stored content
  - ETag of stored content
  - Location of the new content (i.e. the URL used to create the content), example:

```
Content-MD5: 4cd56e137a93alaccb43c5d32f4afffb
ETag: 4cd56e137a93alaccb43c5d32f4afffb
Location: https://myhost:8080/durastore/space1/content1
```

- Usage Notes

- When the optional Content-MD5 header is included, the final checksum of the stored file is compared against the MD5 value included in the header to ensure that the file was stored correctly. If the header is not included, an MD5 checksum is computed as the file is transferred to storage, and that value is used in the final comparison.
- All properties to be set must be included as a request header with the prefix "x-dura-meta-". **Any header using the "x-dura-meta-" prefix will be stored as a content property, with a few exceptions, which are used for specific other purposes:**
  - Headers used as part of the Copy Content request

```
x-dura-meta-copy-source
x-dura-meta-copy-source-store
```

- Headers used to provide details about a space (these cannot be set)

```
x-dura-meta-space-count
x-dura-meta-space-created
```

- Headers used as part of the Set Space ACLs call (the \* is replaced by the user or group name)

```
x-dura-meta-acl-*
x-dura-meta-acl-group-*
```

- Headers used internal to DuraCloud

```
x-dura-meta-content-mimetype (set Content-Type header instead)
x-dura-meta-content-size (automatically written as Content-Length header)
x-dura-meta-content-checksum (automatically written as Content-MD5 header)
x-dura-meta-content-modified (automatically written as Last-Modified header)
```

- Headers used by the DuraCloud SyncTool to automatically capture file details

```
x-dura-meta-creator
x-dura-meta-content-file-created
x-dura-meta-content-file-modified
x-dura-meta-content-file-last-accessed
x-dura-meta-content-file-path
```

- Use only US-ASCII characters for property names and values
- There is a 2 KB total size limit on all content properties (this includes both auto-generated and user contributed properties.)
- The "x-dura-meta-" prefix is case-sensitive (make sure your clients do not automatically change case.)

## Copy Content

- Purpose: Copies a piece of content from a source space to a destination space within a given store
- Request: **PUT** `https://host:port/durastore/spaceID/contentID ? (storeID)`
- Request Body: must not exist
- Request Headers: Copy source, example:

```
x-dura-meta-copy-source: space-id/content-id
```

- Optional Request Headers: Copy source store, example:

```
x-dura-meta-copy-source-store: storeId
```

- Response Code: 201 (on success)
- Response Headers:
  - MD5 checksum of stored content
  - ETag of stored content
  - Location of the new content (i.e. the URL used to create the content), example:

```
Content-MD5: 4cd56e137a93alaccb43c5d32f4afffb
ETag: 4cd56e137a93alaccb43c5d32f4afffb
Location: https://myhost:8080/durastore/space1/content1
```

- Usage Notes
  - The properties associated with the source content item are copied to the destination content item.
  - The source and destination spaces may be the same.
  - Including the optional header indicates that the copy action should retrieve the source file from a space in the specified storage provider. This allows for copying a file from one storage provider to another.

## Set Content Properties

- Purpose: Updates the properties associated with a piece of content. **Note:** You must include ALL properties you would like associated with the given content item in this call. Any properties that exist before this call but are not included in the call itself will be removed. This is to allow for both adding and removing properties.
- Request: **POST** `https://host:port/durastore/spaceID/contentID ? (storeID)`
- Request Headers: Same as Store content (above)
- Response Code: 200 (on success)
- Response Body: "Content \$contentID updated successfully"

## Delete Content

- Purpose: Removes a piece of content from the store
- Request: **DELETE** `https://host:port/durastore/spaceID/contentID ? (storeID)`
- Response Code: 200 (on success)
- Response Body: "Content \$contentID deleted successfully"

## Audit Log REST Methods

### Get Audit Log

- Purpose: Returns the latest audit for a given store and space
- Request: **GET** `https://host:port/durastore/audit/{spaceId} ? (storeID)`
  - spaceID - ID of the space for which the audit log will be retrieved
  - storeID (optional) - ID of the content storage provider to query (default is primary store)
- Response Code: 200 (on success), 404 if audit logs were not found.
- Response Body: TSV in chronological order with the following fields.

ACCOUNT	STORE_ID	SPACE_ID	CONTENT_ID	CONTENT_MD5
CONTENT_SIZE	CONTENT_MIMETYPE	CONTENT_PROPERTIES	SPACE_ACLS	
SOURCE_SPACE_ID	SOURCE_CONTENT_ID	TIMESTAMP	ACTION	USERNAME
mysubdomain	51	myspace	image-01.jpg	
b1978f9fc4fe9448e05b83bbe6b98109		81214	image/jpeg	{"content-mimetype" : "image
/jpeg"}	{}	2014-09-10T15:54:42.042	ADD_CONTENT	root

## Manifest REST Methods

### Get Manifest

- Purpose: Returns the manifest for a given space and storeId
- Request: **GET** `https://host:port/durastore/manifest/{spaceId} ? (storeId) (format)`
  - spaceId - ID of the space for which the manifest will be retrieved
  - storeId (optional) - ID of the content storage provider to query (default is primary store)
  - format (optional) - TSV or BAGIT (default is TSV)
- Response Code: 200 (on success), 404 if manifest was not found.
- Response Body: TSV in chronological order with the following fields.

#### TSV results

space-id	content-id	MD5
auditlogs	localhost/51/auditlogs/localhost_51_auditlogs-2014-09-10-15-56-07.tsv	6992f8e57dafb17335f766aa2acf5942
auditlogs	localhost/51/photos/localhost_51_photos-2014-09-10-15-55-01.tsv	820e786633fb495db447dc5d5cf0b2bd

### Generate Manifest

- Purpose: Asynchronously generates a gzipped manifest for a given space and storeId. This approach may be preferable if you wish to obtain a manifest for a larger space. We recommend considering this option for spaces that are larger than 100K items.
- Request: **POST** `https://host:port/durastore/manifest/{spaceId} ? (storeId) (format)`
  - spaceId - ID of the space for which the manifest will be generated
  - storeId (optional) - ID of the content storage provider to query (default is primary store)
  - format (optional) - TSV or BAGIT (default is TSV)
- Response Code: 202 (on success), 404 if manifest was not found.
- Response Body: We are processing your manifest generation request. To retrieve your file, please poll the URI in the Location header of this response
- Response Headers:

#### TSV results

Location: <URI-of-generated-manifest>

## Storage Report REST Methods

### Get Storage Reports by Space

- Purpose: Returns storage report summaries for a space. Report values are averaged based on the grouping interval (if groupBy=month, all data points within each month are averaged to provide an aggregate result).
- Request: **GET** `https://host:port/durastore/report/space/{spaceId} ? (storeId) (start) (end) (groupBy)`
  - spaceID - ID of the space for which the storage report will be retrieved
  - storeID (optional) - ID of the content storage provider to query (default is primary store)
  - start (optional) - Timestamp in epoch milliseconds which defines the starting point for results. Any data points which are prior to this value are not included.
  - end (optional) - Timestamp in epoch milliseconds which defines the end point for results. Any data points which are after this value are not included.
    - usage note: To ensure that all expected data points are included, set the end timestamp to the very end of the final interval (e.g. 23:59:59 on the last day of the week/month)
  - groupBy (optional) - Grouping interval which allows for averaged results for days, weeks, and months. Valid values are: "day", "week", and "month" (default is day)
- Response Code: 200 (on success)
- Response Body: JSON array of storage report details

#### JSON results

```
[
  {
    "timestamp":1312588800000,"accountId":"<account-id>","spaceId":"<space-id>","storeId":"<store-id>","byteCount":1000,"objectCount":10},
    {
      "timestamp":1315008000000,"accountId":"<account-id>","spaceId":"<space-id>","storeId":"<store-id>","byteCount":1000,"objectCount":10},
      {
        "timestamp":1315526400000,"accountId":"<account-id>","spaceId":"<space-id>","storeId":"<store-id>","byteCount":1000,"objectCount":10}
    ]
```

### Get Storage Reports by Store

- Purpose: Returns storage report summaries for all content in a storage provider. Report values are averaged based on the grouping interval (if groupBy=month, all data points within each month are averaged to provide an aggregate result).
- Request: **GET** `https://host:port/durastore/report/store ? (storeId) (start) (end) (groupBy)`
  - storeID (optional) - ID of the content storage provider to query (default is primary store)
  - start (optional) - Timestamp in epoch milliseconds which defines the starting point for results. Any data points which are prior to this value are not included.
  - end (optional) - Timestamp in epoch milliseconds which defines the end point for results. Any data points which are after this value are not included.
    - usage note: To ensure that all expected data points are included, set the end timestamp to the very end of the final interval (e.g. 23:59:59 on the last day of the week/month)
  - groupBy (optional) - Grouping interval which allows for averaged results for days, weeks, and months. Valid values are: "day", "week", and "month" (default is day)
- Response Code: 200 (on success)
- Response Body: JSON array of storage report details

#### JSON results

```
[
  {
    "timestamp":1312588800000,"accountId":"<account-id>","storeId":"<store-id>","byteCount":1000,"objectCount":10},
    {
      "timestamp":1315008000000,"accountId":"<account-id>","storeId":"<store-id>","byteCount":1000,"objectCount":10},
      {
        "timestamp":1315526400000,"accountId":"<account-id>","storeId":"<store-id>","byteCount":1000,"objectCount":10}
    ]
```

### Get Storage Reports for all Spaces in a Store (in a single day)



- Purpose: Returns storage report summaries for all spaces in a storage provider on a single day.
- Request: **GET** `https://host:port/durastore/report/store/{date} ? (storeID)`
  - date - Timestamp in epoch milliseconds which specifies the requested day
  - storeID (optional) - ID of the content storage provider to query (default is primary store)
- Response Code: 200 (on success)
- Response Body: JSON array of storage report details

#### JSON results

```
[
  { "timestamp":1312588800000,"accountId":"<account-id>","spaceId":"<space-id-1>","storeId":"<store-id>","byteCount":1000,"objectCount":10},
  { "timestamp":1315008000000,"accountId":"<account-id>","spaceId":"<space-id-2>","storeId":"<store-id>","byteCount":1000,"objectCount":10},
  { "timestamp":1315526400000,"accountId":"<account-id>","spaceId":"<space-id-3>","storeId":"<store-id>","byteCount":1000,"objectCount":10}
]
```

## Bit Integrity REST Methods

### Get Bit Integrity Report

- Purpose: Retrieves the latest bit integrity report for a given space and store
- Request: **GET** `https://host:port/durastore/bit-integrity/{spaceId} ? (storeID)`
  - Optional parameter 'storeID': if not set, primary storage provider is used.
- Response Code: 200 (on success), 404 if space doesn't exist, 204 if no report is available for that space.
- Response Headers:
  - Bit-Integrity-Report-Completion-Date: yyyy-MM-ddTHH:mm:ss
  - Bit-Integrity-Report-Result: (SUCCESS or FAILURE)
- Response Body: TSV with the following fields.

#### TSV results

date-checked	account	store-id	store-type	space-id	content-id
result	content-checksum	provider-checksum	manifest-checksum		details

### Get Bit Integrity Report Properties

- Purpose: Retrieves details about the latest bit integrity report for a given space and store, but not the report itself
- Request: **HEAD** `https://host:port/durastore/bit-integrity/{spaceId} ? (storeID)`
  - Optional parameter 'storeID': if not set, primary storage provider is used.
- Response Code: 200 (on success), 404 if space doesn't exist, 204 if no report is available for that space.
- Response Headers: same as for Get Bit Integrity Report (above)

## Auxiliary REST Methods

### Get Streaming Cookies

- Purpose: To be used in conjunction with secure HLS streaming in order to allow for setting access cookies on the user's browser. This endpoint is not called directly but is accessed by using the streaming distribution domain as a proxy, thus allowing cookies associated with that domain to be set. The response headers set the cookies. The body of the response is an HTML document which redirects the user. Expected to be used in combination with the get-signed-cookies-url S3 Task.
- Request: **GET** `https://host:port/durastore/aux/cookies ? (token)`
  - token - Token generated when cookie data is stored
- Response Code: 200 (on success), 404 if the specified token does not exist
- Response Headers: 3 Set-Cookie headers (CloudFront-Policy, CloudFront-Signature, CloudFront-Key-Pair-Id)

## Task REST Methods

Tasks are used to perform storage provider actions which cannot be performed in a generic manner across multiple providers.

### Get Tasks

- Purpose: Provides a listing of all of the supported tasks for a given provider. Note that if no storeID parameter is included, the task listing is provided for the primary storage provider.
- Request: **GET** [https://host:port/durastore/task ? \(storeID\)](https://host:port/durastore/task ? (storeID))
- Response Code: 200 (on success)
- Response Body: XML similar to:

```
<list>
  <string>task1</string>
  <string>task2</string>
</list>
```

## Perform Task

- Purpose: Performs a particular task. Note that most tasks can be performed by only one storage provider type.
- Request: **POST** [https://host:port/durastore/task/taskName ? \(storeID\)](https://host:port/durastore/task/taskName ? (storeID))
- Request Body: Parameters for task. Each task will expect parameters in a specific format, see task listing for more details.
- Response Code: 200 (on success)
- Response Body: Response value for task, format varies by task.

## Tasks

### Amazon S3 Storage Provider

#### HTTP Live Streaming support

taskName	Name	Description	Request Body	Response Body
enable-hls	Enable HLS Streaming task	<p>Enables HTTP Live Streaming (HLS) for all files within a DuraCloud space through the use of Amazon's Cloudfront streaming capability. This task may take up to 15 minutes to complete.</p> <p>When this call completes, two new properties will have been added to the set of properties for the specified space:</p> <ul style="list-style-type: none"> <li>• hls-streaming-host - this is the HLS host value, which can be used to generate URLs for streaming</li> <li>• hls-streaming-type - will either be OPEN or SECURE, depending on the value of the secure parameter provided when streaming was enabled</li> </ul>	<pre>{   "spaceId"   : " ",   "secure" :   " ",    "allowedOrigins" : [ " ", " " ] }</pre> <p>spaceId - Name of the space for which streaming is to be enabled</p> <p>secure - true or false, should streaming be secured</p> <p>allowedOrigins - A list of allowed origins which limits the domains that may access the content in a streamed space under the CORS security model (optional, default is "https://")</p>	<pre>{   "result" : " ",   "streamingHost" : " " }</pre> <p>result - Text indicating the results of the task</p> <p>streamingHost - The host name of the streaming endpoint</p>
disable-hls	Disable HLS Streaming task	<p>Disables streaming by removing the ability for Cloudfront to access files within a space. This does not remove the streaming distribution, only disables its use, so enabling streaming on the same space again can be performed much more quickly. Some content in the space may continue to be available for streaming up to 24 hours after streaming has been disabled.</p>	<pre>{   "spaceId"   : " " }</pre> <p>spaceId - Name of the space for which streaming is to be disabled</p>	<pre>{   "result" : " " }</pre> <p>result - Text indicating the results of the task</p>
delete-hls	Delete HLS Streaming task	<p>Removes a streaming distribution created by the enable-streaming task. This task should be performed after performing the disable-streaming task. This task may take up to 15 minutes to complete, after which no content in the space will be available for streaming.</p> <p>This task can be used to transition a space where streaming has been enabled from Open to Secure or Secure to Open.</p>	<pre>{   "spaceId"   : " " }</pre> <p>spaceId - Name of the space for which streaming is to be deleted</p>	<pre>{   "result" : " " }</pre> <p>result - Text indicating the results of the task</p>

get-url-hls	Get URL for HLS task	Retrieves a URL for a media file that is streamed through CloudFront via HLS	<pre>{   "spaceId"   : " ",    "contentId"   : " ", }</pre> <p>spaceId - Name of the space in which the streamed content is stored</p> <p>contentId - Name of the content item to be streamed</p>	<pre>{   "streamUrl" : " " }</pre> <p>streamUrl - The URL to be used for streaming the requested content</p>
get-signed-cookies-url	Get Signed Cookies URL task	Generates a set of cookies to be set on the end-user's browser which will provide access to streams in a space with secure streaming enabled. Parameters provide ways to further limit access to streaming content. Rather than returning the cookies, this call stores them and returns a URL through which the cookies can be retrieved and set.	<pre>{   "spaceId"   : " ",    "minutesToExpire" : " ",    "ipAddress"   : " ",    "redirectUrl"   : " " }</pre> <p>spaceId - Name of the space in which the streamed content is stored</p> <p>minutesToExpire - Number of minutes until the generated cookies expires and streams can no longer be played (optional, default is 480)</p> <p>ipAddress - IP address range where requests to stream must originate, in CIDR notation (e.g. 1.2.3.4/32) (optional)</p> <p>redirectUrl - The URL the user should be redirected to after visiting the signed cookies URL</p>	<pre>{   "signedCookiesUrl" : " " }</pre> <p>signedCookiesUrl - A URL to which the end user can be sent in order for signed cookies to be set in their browser</p> <p>Note: On the subsequent call to the signedCookiesUrl, if CORS headers (Access-Control-Allow-Origin and Access-Control-Allow-Credentials) are required in the response (such as to support an XMLHttpRequest call), make sure that an Origin header is supplied on the GET to the signedCookiesUrl. The Origin header should provide the URL that is required in the Access-Control-Allow-Origin response, as the response value will mirror the request.</p>

Storage Policy support

taskName	Name	Description	Request Body	Response Body
set-storage-policy	Set Storage Policy	Sets the S3 bucket lifecycle policies associated with a given space. This task is restricted to DuraCloud service administrators.	<pre>{   "spaceId" : "",   "storageClass" : "",   "daysToTransition" : 0 }</pre> <p>spaceId - Name of the space for which the storage policy should be set</p> <p>storageClass - One of "STANDARD_IA", "REDUCED_REDUNDANCY", or "GLACIER"</p> <p>daysToTransition - Number of days content should remain at standard storage before being transitioned to the new storage class</p>	<pre>{   "result" : "" }</pre> <p>result - Text indicating the results of the task</p>
noop	Test task	Provides a simple way to test the calling of tasks	None	"Success"

### Amazon Glacier Storage Provider

taskName	Name	Description	Request Body	Response Body
restore-content	Restore Content task	Provides the capability to request that specific content items stored in Glacier be retrieved. Content items which are retrieved are made available 3-5 hours after this request is made, and remains available for 2 weeks.	Name of the space and the content item in the form: spaceID/contentID	Text indicating that a restore action has been initiated (or that a restore is already in progress, in the case of duplicate requests.)

### Snapshot Storage Provider

taskName	Name	Description	Request Body	Response Body
get-snapshots-totals	Get Snapshots Totals task	Retrieves the total count, size and files of snapshots.		<pre>{   "totalCount": 1,   "totalSize": 1000,   "totalFiles": 100 }</pre>
create-snapshot	Create Snapshot task	Creates a snapshot by collecting details of the snapshot and passing the request down to a bridge application which makes a copy of the contents of the space.	<pre>{   "spaceId" : "",   "description" : "",   "userEmail" : "" }</pre>	<pre>{   "snapshotId" : "",   "status" : "" }</pre>

get-snapshot	Get Snapshot task	Retrieves the status and details of a snapshot action	<pre>{   "snapshotId" : "" }</pre>	<pre>{   "snapshotId" : "",   "snapshotDate" : "",   "status" : "",   "sourceHost" : "",   "sourceSpaceId" : "",   "sourceStoreId" : "",   "description" : "",   "contentItemCount" : "",   "totalSizeInBytes" : "",   "alternativeIds" : [ "", "" ] }</pre>
cleanup-snapshot	Clean Up Snapshot task	Handles the removal of content items in a space after a snapshot has taken place	<pre>{   "spaceId" : "" }</pre>	<pre>{   "contentExpirationDays" : "" }</pre>
complete-snapshot	Complete Snapshot task	Completes the snapshot process	<pre>{   "spaceId" : "" }</pre>	<pre>{   "result" : "" }</pre>

complete-cancel-snapshot	Complete the cancellation of a snapshot	Handles the removal of any space properties, .collection-snapshot.properties file, and snapshot related user permissions. It should be called by the bridge after it has finished its cancellation process.	<pre>{   "spaceId" : "" }</pre>	<pre>{   "result" : "text description of result" }</pre>
restart-snapshot	Restart Snapshot task	Restarts the snapshot process if a failure occurred while transferring from DuraCloud to the bridge.	<pre>{   "snapshotId" : "" }</pre>	<pre>{   "snapshotId" : "",   "status" : "" }</pre>
get-snapshots	Get List of Snapshot task	Retrieves a listing of all snapshots which have been created	None	<pre>{   "snapshots" : [     {       "snapshotId" : "",       "description" : "",       "status" : ""     },     ...   ] }</pre>
get-snapshot-contents	Get List of Snapshot Contents task	Retrieves a listing of the contents of a particular snapshot	<pre>{   "snapshotId" : "",   "pageNumber" : 0,   "pageSize" : 1000,   "prefix" : "" }</pre>	<pre>{   "totalCount" : 0,   "contentItems" : [     {       "contentId" : "",       "contentProperties" : {         "" : ""       }     }   ] }</pre>

get-snapshot-history	Get Snapshot History task	Retrieves a listing of events which have occurred in the history of a particular snapshot	<pre>{   "snapshotId" : "",   "pageNumber" : 0,   "pageSize" : 0 }</pre>	<pre>{   "totalCount" : 0,   "historyItems" : [     {       "history" : "",       "historyDate" : 0     }   ] }</pre>
request-restore-snapshot	Request a snapshot restore	Sends a restore request to an duracloud admin level user. This call can be made by user with access to the snapshot in question. Action on the part of the admin receiving the request is required to initiate a restore. The value of the user email address parameter will be used for notification purposes once the restore begins.	<pre>{   "snapshotId" : "",   "userEmail" : "" }</pre>	<pre>{   "description" : "" }</pre>
restore-snapshot	Restore Snapshot task	Initiates the restoration of a snapshot to a DuraCloud space. This call requires admin access.	<pre>{   "snapshotId" : "",   "userEmail" : "" }</pre>	<pre>{   "spaceId" : "",   "restoreId" : "",   "status" : "" }</pre>
complete-restore	Complete Restore task	Completes the restoration action by setting up an expiration policy for restored content	<pre>{   "spaceId" : "",   "daysToExpire" : 1 }</pre>	<pre>{   "result" : "" }</pre>

get-restore	Get Snapshot Restore task	Retrieves the status and details of a restore action. Note that you must specify either the snapshotId or the restoreId, but not both. Specifying the snapshotId will return the most recent restoration matching that snapshotId. Specifying the restoreId you will get back the restoration matching that ID (as you would expect).	<pre>{   "snapshotId" : "",   "restoreId" : "" }</pre>	<pre>{   "restoreId" : "",   "snapshotId" : "",   "status" : "",   "startDate" : "",   "endDate" : "",   "statusText" : "",   "destinationHost" : "",   "destinationPort" : "",   "destinationStoreId" : "",   "destinationSpaceId" : "" }</pre>
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