



Manage storage file clones

REST API reference

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Manage storage file clones

Create a clone of the file

POST /storage/file/clone

Introduced In: 9.6

Creates a clone of the file.

Parameters

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none">• Default value: 1• Max value: 120• Min value: 0

Name	Type	In	Required	Description
return_records	boolean	query	False	<p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> • Default value:

Request Body

Name	Type	Description
autodelete	boolean	Mark clone file for auto deletion.
destination_path	string	Relative path of the clone/destination file in the volume.
is_backup	boolean	Mark clone file for backup.
overwrite_destination	boolean	Destination file gets overwritten.
range	array[string]	List of block ranges for sub-file cloning in the format "source-file-block-number:destination-file-block-number:block-count"
source_path	string	Relative path of the source file in the volume.
volume	volume	

Example request

```
{  
  "destination_path": "dest_file1, dir1/dest_file2",  
  "range": [  
    "10:10:5",  
    "20:20:10"  
  ],  
  "source_path": "src_file1, dir1/src_file2,  
./snapshot/snap1/src_file3",  
  "volume": {  
    "name": "volume1",  
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"  
  }  
}
```

Response

Status: 202, Accepted

Name	Type	Description
job	job_link	

Example response

```
{  
  "job": {  
    "uuid": "string"  
  }  
}
```

Error

Status: Default, Error

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

volume

Name	Type	Description
name	string	The name of the volume.
uuid	string	Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">example: 028baa66-41bd-11e9-81d5-00a0986138f7Introduced in: 9.6

file_clone

File clone

Name	Type	Description
autodelete	boolean	Mark clone file for auto deletion.
destination_path	string	Relative path of the clone/destination file in the volume.
is_backup	boolean	Mark clone file for backup.
overwrite_destination	boolean	Destination file gets overwritten.
range	array[string]	List of block ranges for sub-file cloning in the format "source-file-block-number:destination-file-block-number:block-count"
source_path	string	Relative path of the source file in the volume.

Name	Type	Description
volume	volume	

job_link

Name	Type	Description
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

Start a file copy operation

POST /storage/file/copy

Introduced In: 9.8

Starts a file copy operation.

Required properties

- files_to_copy - List of files with the destination they are to be copied to.

Default property values

- `cutover_time - 10`
- `hold_quiescence - false`
- `max_throughput - 0`
- `reference_cutover_time - 10`

Related ONTAP commands

- `volume file copy start`

Examples

Copying two files

The POST request is used to copy file(s).

```
# The API:  
/api/storage/file/copy  
  
# The call:  
curl -X POST  "https://<mgmt-ip>/api/storage/file/copy" -H "accept:  
application/hal+json" -d  
'{"files_to_copy": [{"source": {"volume": {"name": "vol_a"}, "svm": {"name": "vs0"}, "path": "d1/src_f1"}, "destination": {"volume": {"name": "vol_a"}, "svm": {"name": "vs0"}, "path": "d1/dst_f1"}},  
 {"source": {"volume": {"name": "vol_a"}, "svm": {"name": "vs0"}, "path": "d1/src_f2"}, "destination": {"volume": {"name": "vol_a"}, "svm": {"name": "vs0"}, "path": "d1/dst_f2"}}}]'  
  
# The response:  
{  
  "job": {  
    "uuid": "b89bc5dd-94a3-11e8-a7a3-0050568edf84",  
    "_links": {  
      "self": {  
        "href": "/api/cluster/jobs/b89bc5dd-94a3-11e8-a7a3-0050568edf84"  
      }  
    }  
  }  
}
```

Parameters

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.</p> <ul style="list-style-type: none"> • Default value: 1 • Max value: 120 • Min value: 0
return_records	boolean	query	False	<p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none"> • Default value:

Request Body

Name	Type	Description
cutover_time	integer	The maximum amount of time (in seconds) that the source can be quiesced before a destination file must be made available for read-write traffic.

Name	Type	Description
files_to_copy	array[files_to_copy]	A list of source files along with the destinations they are copied to. If the terminal path component of the destination is a directory, then the source file's basename is replicated in that directory.
hold_quiescence	boolean	Specifies whether the source file should be held quiescent for the duration of the copy operation.
max_throughput	integer	The maximum amount of data (in bytes) that can be transferred per second in support of this operation.
reference_cutover_time	integer	The maximum amount of time (in seconds) that the source reference file can be quiesced before the corresponding destination file must be made available for read-write traffic.
reference_file	reference_file	

Example request

```
{  
  "cutover_time": "10",  
  "files_to_copy": [  
    {  
      "destination": {  
        "path": "string",  
        "svm": {  
          "name": "svm1",  
          "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
        },  
        "volume": {  
          "name": "volume1",  
          "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"  
        }  
      },  
      "source": {  
        "path": "string",  
        "svm": {  
          "name": "svm1",  
          "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
        },  
        "volume": {  
          "name": "volume1",  
          "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"  
        }  
      }  
    }  
  ],  
  "reference_cutover_time": "10",  
  "reference_file": {  
    "path": "string",  
    "volume": {  
      "name": "volume1",  
      "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"  
    }  
  }  
}
```

Response

Status: 202, Accepted

Name	Type	Description
job	job_link	

Example response

```
{
  "job": {
    "uuid": "string"
  }
}
```

Error

Status: Default

ONTAP Error Response Codes

Error Code	Description
7012352	File locations are inconsistent. All files must be on the same volume.
7012353	Exceeded the file operations supported number of files.
7012354	Unable to pair the number of source files to destination files.
7012357	Cannot start a file operation until all cluster nodes support the file operations capability.
7012358	The specified source path is invalid.
7012359	The specified destination path is invalid.
7012360	The SVMs are not in an intracluster peering relationship.
7012361	The SVMs peering relationship does not include application "file-copy".
7012362	The SVMs are not yet in a peered state yet.
7012363	Cannot copy files. All file operations must be managed by the destination SVM's administrator.
7012365	Copying a file between clusters is not supported.
7012367	A reference path may only be specified if multiple source paths are specified.

Error Code	Description
7012368	The reference path must have a matching source path.
7012371	The reference cutover time exceeds the maximum allowable time.
7012374	Source volume and destination volume have different home clusters.
7012376	Operation not allowed on a volume that is part of a SnapMirror Synchronous relationship.
7012377	Cannot start a file copy operation on the volume because an active volume conversion is in progress.
196608143	Cannot start operation. The volume is undergoing a secure purge operation.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

Name	Type	Description
name	string	The name of the SVM.
uuid	string	The unique identifier of the SVM.

volume

Name	Type	Description
name	string	The name of the volume.
uuid	string	Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none">example: 028baa66-41bd-11e9-81d5-00a0986138f7Introduced in: 9.6

file_reference

Name	Type	Description
path	string	Path of the file or directory.
svm	svm	
volume	volume	

files_to_copy

Name	Type	Description
destination	file_reference	
source	file_reference	

reference_file

Name	Type	Description
path	string	The source reference file. If a reference file is specified, data for other files being copied will be transferred as a difference from the reference file. This can save bandwidth and destination storage if the specified source files share blocks. If provided, this input must match one of the source file paths. This input need not be provided if only one source file is specified.
volume	volume	

file_copy

File copy

Name	Type	Description
cutover_time	integer	The maximum amount of time (in seconds) that the source can be quiesced before a destination file must be made available for read-write traffic.
files_to_copy	array[files_to_copy]	A list of source files along with the destinations they are copied to. If the terminal path component of the destination is a directory, then the source file's basename is replicated in that directory.
hold_quiescence	boolean	Specifies whether the source file should be held quiescent for the duration of the copy operation.
max_throughput	integer	The maximum amount of data (in bytes) that can be transferred per second in support of this operation.

Name	Type	Description
reference_cutover_time	integer	The maximum amount of time (in seconds) that the source reference file can be quiesced before the corresponding destination file must be made available for read-write traffic.
reference_file	reference_file	

job_link

Name	Type	Description
uuid	string	The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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