



# Manage storage qtrees

## ONTAP 9.6 REST API reference

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# Table of Contents

- Manage storage qtrees ..... 1
  - Storage qtrees endpoint overview ..... 1
  - Retrieve qtrees ..... 9
  - Create a qtree in a FlexVol or FlexGroup volume ..... 16
  - Delete a qtree ..... 23
  - Retrieve qtree properties ..... 26
  - Update properties for a qtree ..... 32

# Manage storage qtrees

## Storage qtrees endpoint overview

### Overview

A qtree is a logically defined file system that can exist as a special subdirectory of the root directory within a FlexVol or a FlexGroup volume.

### Qtree APIs

The following APIs are used to create, retrieve, modify, and delete qtrees.

&ndash; POST /api/storage/qtrees

&ndash; GET /api/storage/qtrees

&ndash; GET /api/storage/qtrees/{volume-uuid}/{qtree-id}

&ndash; PATCH /api/storage/qtrees/{volume-uuid}/{qtree-id}

&ndash; DELETE /api/storage/qtrees/{volume-uuid}/{qtree-id}

### Examples

#### Creating a qtree inside a volume for an SVM

This API is used to create a qtree inside a volume for an SVM.

The following example shows how to create a qtree in a FlexVol with a given security style, UNIX permissions, and an export policy.

```
# The API:
POST /api/storage/qtrees

# The call:
curl -X POST 'https://<mgmt-ip>/api/storage/qtrees?return_records=true' -H
'accept: application/hal+json' -d @test_qtree_post.txt
test_qtree_post.txt (body):
{
  "svm": {
    "name": "svm1"
  },
  "volume": {
    "name": "fv"
  },
  "name": "qt1",
```

```

"security_style": "unix",
"unix_permissions": 744,
"export_policy": {
  "name": "default"
}
}
}

# The response:
{
  "num_records": 1,
  "records": [
    {
      "svm": {
        "name": "svml"
      },
      "volume": {
        "name": "fv"
      },
      "name": "qt1",
      "security_style": "unix",
      "unix_permissions": 744,
      "export_policy": {
        "name": "default"
      },
      "_links": {
        "self": {
          "href": "/api/storage/qtrees/?volume.name=fv&name=qt1"
        }
      }
    }
  ],
  "job": {
    "uuid": "84edef3c-4f6d-11e9-9a71-005056a7f717",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/84edef3c-4f6d-11e9-9a71-005056a7f717"
      }
    }
  }
}

```

## Retrieving qtrees

This API is used to retrieve qtrees.

The following example shows how to retrieve qtrees belonging to SVM *svm1* and volume *fv*. The `svm.name` and `volume.name` query parameters are used to find the required qtrees.

```
# The API:
GET /api/storage/qtrees

# The call:
curl -X GET "https://<mgmt-
ip>/api/storage/qtrees/?svm.name=svm1&volume.name=fv" -H 'accept:
application/hal+json'

# The response
{
  "records": [
    {
      "svm": {
        "uuid": "b68f961b-4cee-11e9-930a-005056a7f717",
        "name": "svm1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/b68f961b-4cee-11e9-930a-005056a7f717"
          }
        }
      },
      "volume": {
        "uuid": "cb20da45-4f6b-11e9-9a71-005056a7f717",
        "name": "fv",
        "_links": {
          "self": {
            "href": "/api/storage/volumes/cb20da45-4f6b-11e9-9a71-
005056a7f717"
          }
        }
      },
      "id": 0,
      "name": "",
      "_links": {
        "self": {
          "href": "/api/storage/qtrees/cb20da45-4f6b-11e9-9a71-
005056a7f717/0"
        }
      }
    }
  ]
}
```

```

"svm": {
  "uuid": "b68f961b-4cee-11e9-930a-005056a7f717",
  "name": "svm1",
  "_links": {
    "self": {
      "href": "/api/svm/svms/b68f961b-4cee-11e9-930a-005056a7f717"
    }
  }
},
"volume": {
  "uuid": "cb20da45-4f6b-11e9-9a71-005056a7f717",
  "name": "fv",
  "_links": {
    "self": {
      "href": "/api/storage/volumes/cb20da45-4f6b-11e9-9a71-
005056a7f717"
    }
  }
},
"id": 1,
"name": "qt1",
"_links": {
  "self": {
    "href": "/api/storage/qtrees/cb20da45-4f6b-11e9-9a71-
005056a7f717/1"
  }
}
},
{
  "svm": {
    "uuid": "b68f961b-4cee-11e9-930a-005056a7f717",
    "name": "svm1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/b68f961b-4cee-11e9-930a-005056a7f717"
      }
    }
  },
  "volume": {
    "uuid": "cb20da45-4f6b-11e9-9a71-005056a7f717",
    "name": "fv",
    "_links": {
      "self": {
        "href": "/api/storage/volumes/cb20da45-4f6b-11e9-9a71-
005056a7f717"
      }
    }
  }
}

```

```

    }
  },
  "id": 2,
  "name": "qt2",
  "_links": {
    "self": {
      "href": "/api/storage/qtrees/cb20da45-4f6b-11e9-9a71-005056a7f717/2"
    }
  }
},
"num_records": 3,
"_links": {
  "self": {
    "href": "/api/storage/qtrees/?svm.name=svml&volume.name=fv"
  }
}
}

```

### Retrieving properties of a specific qtree using a qtree identifier

This API is used to retrieve properties of a specific qtree using qtree.id.

The following example shows how to use the qtree identifier to retrieve all properties of the qtree using the fields query parameter.

```

# The API:
GET /api/storage/qtrees/{volume.uuid}/{id}

# The call:
curl -X GET 'https://<mgmt-ip>/api/storage/qtrees/cb20da45-4f6b-11e9-9a71-005056a7f717/2?fields=*' -H 'accept: application/hal+json'
{
  "svm": {
    "uuid": "b68f961b-4cee-11e9-930a-005056a7f717",
    "name": "svml",
    "_links": {
      "self": {
        "href": "/api/svm/svms/b68f961b-4cee-11e9-930a-005056a7f717"
      }
    }
  }
},

```

```

"volume": {
  "uuid": "cb20da45-4f6b-11e9-9a71-005056a7f717",
  "name": "fv",
  "_links": {
    "self": {
      "href": "/api/storage/volumes/cb20da45-4f6b-11e9-9a71-005056a7f717"
    }
  }
},
"id": 2,
"name": "qt2",
"security_style": "unix",
"unix_permissions": 744,
"export_policy": {
  "name": "default",
  "id": 12884901889,
  "_links": {
    "self": {
      "href": "/api/protocols/nfs/export-policies/12884901889"
    }
  }
},
"path": "/fv/qt2",
"_links": {
  "self": {
    "href": "/api/storage/qtrees/cb20da45-4f6b-11e9-9a71-005056a7f717/2"
  }
}
}

```

### Retrieving properties of a specific qtree using the qtree name

This API is used to retrieve properties of a specific qtree using qtree.name.

The following example shows how to retrieve all of the properties belonging to qtree qt2. The `svm.name` and `volume.name` query parameters are used here along with the qtree name.

```

# The API:
GET /api/storage/qtrees/

# The call:
curl -X GET 'https://<mgmt-

```



```
ip>/api/storage/qtrees/?svm.name=svm1&volume.name=fv&name=qt2&fields=*' -H
'accept: application/hal+json'
{
  "svm": {
    "uuid": "b68f961b-4cee-11e9-930a-005056a7f717",
    "name": "svm1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/b68f961b-4cee-11e9-930a-005056a7f717"
      }
    }
  },
  "volume": {
    "uuid": "cb20da45-4f6b-11e9-9a71-005056a7f717",
    "name": "fv",
    "_links": {
      "self": {
        "href": "/api/storage/volumes/cb20da45-4f6b-11e9-9a71-
005056a7f717"
      }
    }
  },
  "id": 2,
  "name": "qt2",
  "security_style": "unix",
  "unix_permissions": 744,
  "export_policy": {
    "name": "default",
    "id": 12884901889,
    "_links": {
      "self": {
        "href": "/api/protocols/nfs/export-policies/12884901889"
      }
    }
  },
  "_links": {
    "self": {
      "href": "/api/storage/qtrees/cb20da45-4f6b-11e9-9a71-005056a7f717/2"
    }
  }
}
```

## Updating a qtree

This API is used to update a qtree.

The following example shows how to update properties in a qtree.

```
# The API:
PATCH /api/storage/qtrees/{volume.uuid}/{id}

# The call:
curl -X PATCH 'https://<mgmt-ip>/api/storage/qtrees/cb20da45-4f6b-11e9-9a71-005056a7f717/2' -H 'accept: application/hal+json' -d '@test_qtree_patch.txt'
test_qtree_patch.txt (body):
{
  "security_style": "mixed",
  "unix_permissions": 777,
  "export_policy": {
    "id": "9",
    "name": "expl"
  }
}
```

## Renaming a qtree

This API is used to rename a qtree.

The following example below shows how to rename a qtree with a new name.

```
# The API:
PATCH /api/storage/qtrees/{volume.uuid}/{id}

# The call:
curl -X PATCH 'https://<mgmt-ip>/api/storage/qtrees/cb20da45-4f6b-11e9-9a71-005056a7f717/1' -H 'accept: application/hal+json' -d '{ "name": "new_qt1" }'
```

## Deleting a qtree inside a volume of an SVM

This API is used to delete a qtree inside a volume of an SVM.

The following example shows how to delete a qtree.

```
# The API:
DELETE /api/storage/qtrees/{volume.uuid}/{id}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/storage/qtrees/cb20da45-4f6b-11e9-9a71-005056a7f717/2" -H 'accept: application/hal+json'
```

## Retrieve qtrees

GET /storage/qtrees

Retrieves qtrees configured for all FlexVols or FlexGroup volumes.

Use the `fields` query parameter to retrieve all properties of the qtree. If the `fields` query parameter is not used, then GET returns the qtree name and qtree id only.

### Related ONTAP commands

- `qtree show`

### Learn more

- [DOC /storage/qtrees](#)

### Parameters

| Name               | Type    | In    | Required | Description                  |
|--------------------|---------|-------|----------|------------------------------|
| export_policy.name | string  | query | False    | Filter by export_policy.name |
| export_policy.id   | integer | query | False    | Filter by export_policy.id   |
| name               | string  | query | False    | Filter by name               |
| security_style     | string  | query | False    | Filter by security_style     |
| volume.name        | string  | query | False    | Filter by volume.name        |

| Name             | Type          | In    | Required | Description  |
|------------------|---------------|-------|----------|--|
| volume.uuid      | string        | query | False    | Filter by volume.uuid  |
| svm.uuid         | string        | query | False    | Filter by svm.uuid   |
| svm.name         | string        | query | False    | Filter by svm.name   |
| path             | string        | query | False    | Filter by path   |
| unix_permissions | integer       | query | False    | Filter by unix_permissions   |
| id               | integer       | query | False    | Filter by id   |
| fields           | array[string] | query | False    | Specify the fields to return.  |
| max_records      | integer       | query | False    | Limit the number of records returned.  |
| return_records   | boolean       | query | False    | The default is true for GET calls. When set to false, only the number of records is returned.  |
| return_timeout   | integer       | query | False    | The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached. |
| order_by         | array[string] | query | False    | Order results by specified fields and optional [asc  |

## Response

Status: 200, Ok

| Name        | Type                           | Description       |
|-------------|--------------------------------|-------------------|
| _links      | <a href="#">_links</a>         |                   |
| num_records | integer                        | Number of records |
| records     | array[ <a href="#">qtree</a> ] |                   |

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "export_policy": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "id": 100,
        "name": "default"
      },
      "id": 1,
      "name": "string",
      "path": "/volume3/qtreen1",
      "security_style": "string",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "unix_permissions": 493,
      "volume": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        }
      }
    }
  ]
}
```

```
    },
    "name": "volume1",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
]
```

## Error

Status: Default, Error

| Name  | Type  | Description |
|-------|-------|-------------|
| error | error |             |

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

| Name | Type   | Description |
|------|--------|-------------|
| href | string |             |

\_links

| Name | Type                 | Description |
|------|----------------------|-------------|
| next | <a href="#">href</a> |             |
| self | <a href="#">href</a> |             |

\_links

| Name | Type                 | Description |
|------|----------------------|-------------|
| self | <a href="#">href</a> |             |

export\_policy

Export Policy

| Name   | Type                   | Description |
|--------|------------------------|-------------|
| _links | <a href="#">_links</a> |             |
| id     | integer                |             |
| name   | string                 |             |

svm

Required in POST

| Name   | Type                   | Description                       |
|--------|------------------------|-----------------------------------|
| _links | <a href="#">_links</a> |                                   |
| name   | string                 | The name of the SVM.              |
| uuid   | string                 | The unique identifier of the SVM. |

volume

Required in POST

| Name   | Type                   | Description |
|--------|------------------------|-------------|
| _links | <a href="#">_links</a> |             |



| 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"> <li>example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> </ul> |

## qtree

A qtree is a directory at the top level of a volume to which a custom export policy (for fine-grained access control) and a quota rule can be applied, if required.

| Name             | Type                          | Description   |
|------------------|-------------------------------|---|
| _links           | <a href="#">_links</a>        |   |
| export_policy    | <a href="#">export_policy</a> | Export Policy   |
| id               | integer                       | The identifier for the qtree, unique within the qtree's volume.   |
| name             | string                        | The name of the qtree. Required in POST; optional in PATCH.   |
| path             | string                        | Client visible path to the qtree. This field is not available if the volume does not have a junction-path configured. Not valid in POST or PATCH. |
| security_style   | string                        | Security style. Valid in POST or PATCH.   |
| svm              | <a href="#">svm</a>           | Required in POST  |
| unix_permissions | integer                       | The UNIX permissions for the qtree. Valid in POST or PATCH.   |
| volume           | <a href="#">volume</a>        | Required in POST  |

## error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

error

| Name      | Type                                     | Description                                 |
|-----------|--|---|
| arguments | array[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

## Create a qtree in a FlexVol or FlexGroup volume

POST /storage/qtrees

Creates a qtree in a FlexVol or a FlexGroup volume.

After a qtree is created, the new qtree is assigned an identifier. This identifier is obtained using a qtree GET request. This identifier is used in the API path for the qtree PATCH and DELETE operations.

### Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create the qtree.
- `volume.uuid` or `volume.name` - Existing volume in which to create the qtree.
- `name` - Name for the qtree.

### Recommended optional properties

If not specified in POST, the values are inherited from the volume.

- `security_style` - Security style for the qtree.
- `unix_permissions` - UNIX permissions for the qtree.
- `export_policy.name` or `export_policy.id` - Export policy of the SVM for the qtree.

### Related ONTAP commands

- `qtree create`

## Learn more

- [DOC /storage/qtrees](#)

## Request Body

| Name             | Type                          | Description   |
|------------------|-------------------------------|---|
| _links           | <a href="#">_links</a>        |   |
| export_policy    | <a href="#">export_policy</a> | Export Policy   |
| id               | integer                       | The identifier for the qtree, unique within the qtree's volume.   |
| name             | string                        | The name of the qtree. Required in POST; optional in PATCH.   |
| path             | string                        | Client visible path to the qtree. This field is not available if the volume does not have a junction-path configured. Not valid in POST or PATCH. |
| security_style   | string                        | Security style. Valid in POST or PATCH.   |
| svm              | <a href="#">svm</a>           | Required in POST  |
| unix_permissions | integer                       | The UNIX permissions for the qtree. Valid in POST or PATCH.   |
| volume           | <a href="#">volume</a>        | Required in POST  |

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "export_policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "id": 100,
    "name": "default"
  },
  "id": 1,
  "name": "string",
  "path": "/volume3/qtreen1",
  "security_style": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "unix_permissions": 493,
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volumel",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

## Response

Status: 202, Accepted

| Name | Type     | Description |
|------|----------|-------------|
| job  | job_link |             |

### Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description   |
|------------|---|
| 2621462    | The specified SVM does not exist.   |
| 917927     | The specified volume was not found.   |
| 2621706    | The specified <code>svm.uuid</code> and <code>svm.name</code> do not refer to the same SVM.     |
| 918236     | The specified <code>volume.uuid</code> and <code>volume.name</code> refer to different volumes. |
| 2621707    | No SVM was specified. Either <code>svm.name</code> or <code>svm.uuid</code> must be supplied.   |
| 918232     | Either <code>volume.name</code> or <code>volume.uuid</code> must be provided.                   |
| 5242953    | Qtree name must be provided.  |
| 5242952    | Export Policy ID specified is invalid.  |

| Error Code | Description   |
|------------|---|
| 5242951    | Export Policy supplied does not belong to the specified Export Policy ID. |
| 5242886    | Failed to create qtree.   |

| Name  | Type  | Description |
|-------|-------|-------------|
| error | error |             |

### Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

### Definitions

## See Definitions

href

| Name | Type   | Description |
|------|--------|-------------|
| href | string |             |

\_links

| Name | Type                 | Description |
|------|----------------------|-------------|
| self | <a href="#">href</a> |             |

export\_policy

Export Policy

| Name   | Type                   | Description |
|--------|------------------------|-------------|
| _links | <a href="#">_links</a> |             |
| id     | integer                |             |
| name   | string                 |             |

svm

Required in POST

| Name   | Type                   | Description                       |
|--------|------------------------|-----------------------------------|
| _links | <a href="#">_links</a> |                                   |
| name   | string                 | The name of the SVM.              |
| uuid   | string                 | The unique identifier of the SVM. |

volume

Required in POST

| Name   | Type                   | Description             |
|--------|------------------------|-------------------------|
| _links | <a href="#">_links</a> |                         |
| name   | string                 | The name of the volume. |

| Name | Type   | Description   |
|------|--------|---|
| 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"> <li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> </ul> |

### qtree

A qtree is a directory at the top level of a volume to which a custom export policy (for fine-grained access control) and a quota rule can be applied, if required.

| Name             | Type                          | Description   |
|------------------|-------------------------------|---|
| _links           | <a href="#">_links</a>        |   |
| export_policy    | <a href="#">export_policy</a> | Export Policy   |
| id               | integer                       | The identifier for the qtree, unique within the qtree's volume.   |
| name             | string                        | The name of the qtree. Required in POST; optional in PATCH.   |
| path             | string                        | Client visible path to the qtree. This field is not available if the volume does not have a junction-path configured. Not valid in POST or PATCH. |
| security_style   | string                        | Security style. Valid in POST or PATCH.   |
| svm              | <a href="#">svm</a>           | Required in POST  |
| unix_permissions | integer                       | The UNIX permissions for the qtree. Valid in POST or PATCH.   |
| volume           | <a href="#">volume</a>        | Required in POST  |

### job\_link

| Name   | Type                   | Description |
|--------|------------------------|-------------|
| _links | <a href="#">_links</a> |             |



| 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[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

## Delete a qtree

```
DELETE /storage/qtrees/{volume.uuid}/{id}
```

Deletes a qtree.

### Related ONTAP commands

- `qtree delete`

### Learn more

- [DOC /storage/qtrees](#)

### Parameters

| Name        | Type   | In   | Required | Description |
|-------------|--------|------|----------|-------------|
| volume.uuid | string | path | True     |             |
| id          | string | path | True     |             |

## Response

Status: 202, Accepted

| Name | Type     | Description |
|------|----------|-------------|
| job  | job_link |             |

## Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description   |
|------------|---|
| 918235     | A volume with UUID was not found.                     |
| 5242955    | The UUID of the volume is required.                   |
| 5242957    | Failed to delete qtree with ID in volume and vserver. |

| Name  | Type  | Description |
|-------|-------|-------------|
| error | error |             |

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

| Name | Type   | Description |
|------|--------|-------------|
| href | string |             |

\_links

| Name | Type                 | Description |
|------|----------------------|-------------|
| self | <a href="#">href</a> |             |

job\_link

| Name   | Type                   | Description   |
|--------|------------------------|---|
| _links | <a href="#">_links</a> |   |
| 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[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

## Retrieve qtree properties

GET /storage/qtrees/{volume.uuid}/{id}

Retrieves properties for a specific qtree identified by the `volume.uuid` and the `id` in the api path.

## Related ONTAP commands

- `qtree show`

## Learn more

- [DOC /storage/qtrees](#)

## Parameters

| Name                     | Type          | In    | Required | Description                   |
|--------------------------|---------------|-------|----------|-------------------------------|
| <code>volume.uuid</code> | string        | path  | True     | Volume UUID                   |
| <code>id</code>          | string        | path  | True     | Qtree ID                      |
| <code>fields</code>      | array[string] | query | False    | Specify the fields to return. |

## Response

Status: 200, Ok

| Name                        | Type                          | Description   |
|-----------------------------|-------------------------------|---|
| <code>_links</code>         | <a href="#">_links</a>        |   |
| <code>export_policy</code>  | <a href="#">export_policy</a> | Export Policy   |
| <code>id</code>             | integer                       | The identifier for the qtree, unique within the qtree's volume.   |
| <code>name</code>           | string                        | The name of the qtree. Required in POST; optional in PATCH.   |
| <code>path</code>           | string                        | Client visible path to the qtree. This field is not available if the volume does not have a junction-path configured. Not valid in POST or PATCH. |
| <code>security_style</code> | string                        | Security style. Valid in POST or PATCH.   |
| <code>svm</code>            | <a href="#">svm</a>           | Required in POST  |

| Name             | Type    | Description   |
|------------------|---------|---|
| unix_permissions | integer | The UNIX permissions for the qtree. Valid in POST or PATCH. |
| volume           | volume  | Required in POST  |

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "export_policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "id": 100,
    "name": "default"
  },
  "id": 1,
  "name": "string",
  "path": "/volume3/qtreen1",
  "security_style": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "unix_permissions": 493,
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volumel",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description                       |
|------------|-----------------------------------|
| 918235     | A volume with UUID was not found. |
| 5242956    | Failed to obtain qtree with ID.   |

| Name  | Type                  | Description |
|-------|-----------------------|-------------|
| error | <a href="#">error</a> |             |

### Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions



## See Definitions

href

| Name | Type   | Description |
|------|--------|-------------|
| href | string |             |

\_links

| Name | Type                 | Description |
|------|----------------------|-------------|
| self | <a href="#">href</a> |             |

export\_policy

Export Policy

| Name   | Type                   | Description |
|--------|------------------------|-------------|
| _links | <a href="#">_links</a> |             |
| id     | integer                |             |
| name   | string                 |             |

svm

Required in POST

| Name   | Type                   | Description                       |
|--------|------------------------|-----------------------------------|
| _links | <a href="#">_links</a> |                                   |
| name   | string                 | The name of the SVM.              |
| uuid   | string                 | The unique identifier of the SVM. |

volume

Required in POST

| Name   | Type                   | Description             |
|--------|------------------------|-------------------------|
| _links | <a href="#">_links</a> |                         |
| name   | string                 | The name of the volume. |

| Name | Type   | Description   |
|------|--------|---|
| 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"> <li>example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> </ul> |

#### error\_arguments

| Name    | Type   | Description      |
|---------|--------|------------------|
| code    | string | Argument code    |
| message | string | Message argument |

#### error

| Name      | Type                                     | Description                                 |
|-----------|--|---|
| arguments | array[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

## Update properties for a qtree

```
PATCH /storage/qtrees/{volume.uuid}/{id}
```

Updates properties for a specific qtree.

### Related ONTAP commands

- `qtree modify`
- `qtree rename`

### Learn more

- [DOC /storage/qtrees](#)

## Parameters

| Name        | Type   | In   | Required | Description |
|-------------|--------|------|----------|-------------|
| volume.uuid | string | path | True     | Volume UUID |
| id          | string | path | True     | Qtree ID    |

## Request Body

| Name             | Type                          | Description   |
|------------------|-------------------------------|---|
| _links           | <a href="#">_links</a>        |   |
| export_policy    | <a href="#">export_policy</a> | Export Policy   |
| id               | integer                       | The identifier for the qtree, unique within the qtree's volume.   |
| name             | string                        | The name of the qtree. Required in POST; optional in PATCH.   |
| path             | string                        | Client visible path to the qtree. This field is not available if the volume does not have a junction-path configured. Not valid in POST or PATCH. |
| security_style   | string                        | Security style. Valid in POST or PATCH.   |
| svm              | <a href="#">svm</a>           | Required in POST  |
| unix_permissions | integer                       | The UNIX permissions for the qtree. Valid in POST or PATCH.   |
| volume           | <a href="#">volume</a>        | Required in POST  |

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "export_policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "id": 100,
    "name": "default"
  },
  "id": 1,
  "name": "string",
  "path": "/volume3/qtreen1",
  "security_style": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "unix_permissions": 493,
  "volume": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "volumel",
    "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
  }
}
```

## Response

Status: 202, Accepted

| Name | Type                     | Description |
|------|--------------------------|-------------|
| job  | <a href="#">job_link</a> |             |

### Example response

```
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
```

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description   |
|------------|---|
| 918235     | A volume with UUID was not found.   |
| 5242951    | Export policy supplied does not belong to the specified export policy ID. |
| 5242955    | The UUID of the volume is required.                                       |
| 5242956    | Failed to obtain qtree with ID.   |
| 5242958    | Failed to rename qtree in volume in SVM with ID.                          |
| 5242959    | Successfully renamed qtree but modify failed.                             |

| Name  | Type                  | Description |
|-------|-----------------------|-------------|
| error | <a href="#">error</a> |             |

## Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

## Definitions

## See Definitions

href

| Name | Type   | Description |
|------|--------|-------------|
| href | string |             |

\_links

| Name | Type                 | Description |
|------|----------------------|-------------|
| self | <a href="#">href</a> |             |

export\_policy

Export Policy

| Name   | Type                   | Description |
|--------|------------------------|-------------|
| _links | <a href="#">_links</a> |             |
| id     | integer                |             |
| name   | string                 |             |

svm

Required in POST

| Name   | Type                   | Description                       |
|--------|------------------------|-----------------------------------|
| _links | <a href="#">_links</a> |                                   |
| name   | string                 | The name of the SVM.              |
| uuid   | string                 | The unique identifier of the SVM. |

volume

Required in POST

| Name   | Type                   | Description             |
|--------|------------------------|-------------------------|
| _links | <a href="#">_links</a> |                         |
| name   | string                 | The name of the volume. |

| Name | Type   | Description   |
|------|--------|---|
| 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"> <li>example: 028baa66-41bd-11e9-81d5-00a0986138f7</li> </ul> |

### qtree

A qtree is a directory at the top level of a volume to which a custom export policy (for fine-grained access control) and a quota rule can be applied, if required.

| Name             | Type                          | Description   |
|------------------|-------------------------------|---|
| _links           | <a href="#">_links</a>        |   |
| export_policy    | <a href="#">export_policy</a> | Export Policy   |
| id               | integer                       | The identifier for the qtree, unique within the qtree's volume.   |
| name             | string                        | The name of the qtree. Required in POST; optional in PATCH.   |
| path             | string                        | Client visible path to the qtree. This field is not available if the volume does not have a junction-path configured. Not valid in POST or PATCH. |
| security_style   | string                        | Security style. Valid in POST or PATCH.   |
| svm              | <a href="#">svm</a>           | Required in POST  |
| unix_permissions | integer                       | The UNIX permissions for the qtree. Valid in POST or PATCH.   |
| volume           | <a href="#">volume</a>        | Required in POST  |

### job\_link

| Name   | Type                   | Description |
|--------|------------------------|-------------|
| _links | <a href="#">_links</a> |             |



| 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[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

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