



# Manage NFS export policies

## ONTAP 9.8 REST API reference

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# Table of Contents

- Manage NFS export policies ..... 1
  - Protocols NFS export-policies endpoint overview ..... 1
  - Retrieve export policies ..... 6
  - Create an export policy ..... 14
  - Delete an export policy ..... 25
  - Retrieve an export policy ..... 27
  - Update export policy properties ..... 33
  - Retrieve export policy rules ..... 38
  - Create an export policy rule ..... 45
  - Delete an export policy rule ..... 54
  - Retrieve an export policy rule ..... 56
  - Update the properties of an export policy rule ..... 61
  - Retrieve export policy rule clients ..... 68
  - Create an export policy rule client ..... 74
  - Delete an export policy client ..... 79

# Manage NFS export policies

## Protocols NFS export-policies endpoint overview

### Export Policies

#### 1) Retrieve the export policy details

---

```
# The API:  
GET /api/protocols/nfs/export-policies  
  
# The call:  
curl -X GET "https://<mgmt-ip>/api/protocols/nfs/export-policies"
```

---

#### 2) Create an export policy for an SVM

---

```
# The API:
POST /api/protocols/nfs/export-policies

# The call:
curl -d "@test_post_policy_single_rule.txt" -X POST "https://<mgmt-
ip>/api/protocols/nfs/export-policies"
test_post_policy_single_rule.txt (body):
{
  "name": "P1",
  "rules": [
    {
      "clients": [
        {
          "match": "host1"
        }
      ],
      "ro_rule": [
        "krb5"
      ],
      "rw_rule": [
        "ntlm"
      ],
      "anonymous_user": "anon1"
    },
    {
      "clients": [
        {
          "match": "host2"
        }
      ],
      "ro_rule": [
        "sys"
      ],
      "rw_rule": [
        "ntlm"
      ],
      "superuser": [
        "any"
      ]
    }
  ]
}
```

### 3) Update an export policy for an SVM

```
# The API:
PATCH /api/protocols/nfs/export-policies/{policy.id}

# The call:
curl -d "@test_patch_policy.txt" -X PATCH "https://<mgmt-
ip>/api/protocols/nfs/export-policies/8589934594"
test_patch_policy.txt (body):
{
  "name": "S1",
  "rules": [
    {
      "clients": [
        {
          "match": "host4"
        }
      ],
      "ro_rule": [
        "krb5"
      ],
      "rw_rule": [
        "ntlm"
      ]
    }
  ]
}
```

### 4) Delete an export policy for an SVM

```
# The API:
DELETE /api/protocols/nfs/export-policies/{policy.id}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/nfs/export-
policies/8589934594"
```

## Export Rules

### 1) Retrieve the export policy rule details for an export policy

---

```
# The API:
GET /api/protocols/nfs/export-policies/{policy.id}/rules

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/nfs/export-policies/8589934595/rules"
```

### 2) Create an export policy rule for an export policy

---

```
# The API:
POST /api/protocols/nfs/export-policies/{policy.id}/rules

# The call:
curl -d "@test_patch_export_rule.txt" -X POST "https://<mgmt-ip>/api/protocols/nfs/export-policies/8589934595/rules"
test_patch_export_rule.txt (body) :
{
  "clients": [
    {
      "match": "host2"
    }
  ],
  "ro_rule": [
    "sys"
  ],
  "rw_rule": [
    "ntlm"
  ]
}
```

### 3) Update an export policy rule for an export policy

---

```
# The API:
PATCH /api/protocols/nfs/export-policies/{policy.id}/rules/{index}

# The call:
curl -d "@test_patch_export_rule.txt" -X PATCH "https://<mgmt-
ip>/api/protocols/nfs/export-policies/8589934595/rules/5?new_index=10"
test_patch_export_rule.txt (body) :
{
  "clients": [
    {
      "match": "host4"
    }
  ],
  "ro_rule": [
    "sys"
  ],
  "rw_rule": [
    "krb5"
  ]
}
```

---

#### 4) Delete an export policy rule for an export policy

---

```
# The API:
DELETE /api/protocols/nfs/export-policies/{policy.id}/rules/{index}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/nfs/export-
policies/8589934595/rules/15"
```

---

## Export Clients

### 1) Retrieve the export client matches of an export policy rule

---

```
# The API:
GET /api/protocols/nfs/export-policies/{policy.id}/rules/{index}/clients

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/nfs/export-
policies/8589934593/rules/2/clients"
```

---

## 2) Add an export client match to an export policy rule

---

```
# The API:
POST /api/protocols/nfs/export-policies/{policy.id}/rules/{index}/clients

# The call:
curl -d "@add_client_match.txt" -X POST "https://<mgmt-
ip>/api/protocols/nfs/export-policies/8589934593/rules/1/clients"
add_client_match.txt (body):
{
"match" : "host4"
}
```

---

## 3) Delete an export client match from an export policy rule

---

```
# The API:
DELETE /api/protocols/nfs/export-
policies/{policy.id}/rules/{index}/clients/{match}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/nfs/export-
policies/8589934593/rules/1/clients/host1,host2"
```

---

## Retrieve export policies

```
GET /protocols/nfs/export-policies
```

**Introduced In:** 9.6

---



Retrieves export policies.

## Related ONTAP commands

- `vserver export-policy show`
- `vserver export-policy rule show`

## Learn more

- [DOC /protocols/nfs/export-policies](#)

## Parameters

Name	Type	In	Required	Description
id	integer	query	False	Filter by id
name	string	query	False	Filter by name
rules.anonymous_user	string	query	False	Filter by rules.anonymous_user
rules.index	integer	query	False	Filter by rules.index
rules.clients.match	string	query	False	Filter by rules.clients.match
rules.rw_rule	string	query	False	Filter by rules.rw_rule
rules.protocols	string	query	False	Filter by rules.protocols
rules.superuser	string	query	False	Filter by rules.superuser
rules.ro_rule	string	query	False	Filter by rules.ro_rule
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
fields	array[string]	query	False	Specify the fields to return.

Name	Type	In	Required	Description
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. <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>
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. <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
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	The number of export policy records
records	array[ <a href="#">export_policy</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "id": 0,
      "name": "string",
      "rules": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "anonymous_user": "string",
          "clients": [
            {
              "match": "0.0.0.0/0"
            }
          ],
          "index": 0,
          "protocols": [
            "string"
          ],
          "ro_rule": [
            "string"
          ],
          "rw_rule": [
            "string"
          ],
          "superuser": [
            "string"
          ]
        }
      ]
    }
  ]
}
```

```

    }
  ],
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-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\_client

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"> <li>• As a hostname; for instance, host1</li> <li>• As an IPv4 address; for instance, 10.1.12.24</li> <li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li> <li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li> <li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li> <li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li> <li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li> <li>• As a domain name preceded by the . character; for instance, .example.com</li> </ul>

#### export\_rule

Name	Type	Description
_links	<a href="#">_links</a>	
anonymous_user	string	User ID To Which Anonymous Users Are Mapped.
clients	array[ <a href="#">export_client</a> ]	Array of client matches
index	integer	Index of the rule within the export policy.
protocols	array[string]	

Name	Type	Description
ro_rule	array[string]	Authentication flavors that the read-only access rule governs
rw_rule	array[string]	Authentication flavors that the read/write access rule governs
superuser	array[string]	Authentication flavors that the superuser security type governs

svm

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

export\_policy

Name	Type	Description
_links	<a href="#">_links</a>	
id	integer	Export Policy ID
name	string	Export Policy Name
rules	array[ <a href="#">export_rule</a> ]	Rules of the Export Policy.
svm	<a href="#">svm</a>	

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

Name	Type	Description
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create an export policy

POST `/protocols/nfs/export-policies`

**Introduced In:** 9.6

Creates an export policy. An SVM can have any number of export policies to define rules for which clients can access data exported by the SVM. A policy with no rules prohibits access.

### Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create an export policy.
- `name` - Name of the export policy.

### Recommended optional properties

- `rules` - Rule(s) of an export policy. Used to create the export rule and populate the export policy with export rules in a single request.

### Related ONTAP commands

- `vserver export-policy create`
- `vserver export-policy rule create`

### Learn more

- [DOC /protocols/nfs/export-policies](#)

### Parameters

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



## Request Body

Name	Type	Description
_links	<a href="#">_links</a>	
id	integer	Export Policy ID
name	string	Export Policy Name
rules	array[ <a href="#">export_rule</a> ]	Rules of the Export Policy.
svm	<a href="#">svm</a>	

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": 0,
  "name": "string",
  "rules": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "anonymous_user": "string",
      "clients": [
        {
          "match": "0.0.0.0/0"
        }
      ],
      "index": 0,
      "protocols": [
        "string"
      ],
      "ro_rule": [
        "string"
      ],
      "rw_rule": [
        "string"
      ],
      "superuser": [
        "string"
      ]
    }
  ],
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

```
}  
}
```

## Response

Status: 201, Created

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
num_records	integer	The number of export policy records
records	array[ <a href="#">export_policy</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "id": 0,
      "name": "string",
      "rules": [
        {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "anonymous_user": "string",
          "clients": [
            {
              "match": "0.0.0.0/0"
            }
          ],
          "index": 0,
          "protocols": [
            "string"
          ],
          "ro_rule": [
            "string"
          ],
          "rw_rule": [
            "string"
          ],
          "superuser": [
            "string"
          ]
        }
      ]
    }
  ]
}
```

```

    }
  ],
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
]
}

```

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
1703952	Invalid ruleset name provided. No spaces allowed in a ruleset name
1703954	Export policy does not exist
1704049	Invalid clientmatch: clientmatch lists require an effective cluster version of Data ONTAP 9.0 or later. Upgrade all nodes to Data ONTAP 9.0 or above to use features that operate on lists of clientmatch strings in export-policy rules
1704055	Export policies are only supported for data Vservers
3277000	Upgrade all nodes to Data ONTAP 9.0.0 or above to use krb5p as a security flavor in export-policy rules
3277083	User ID is not valid. Enter a value for User ID from 0 to 4294967295

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\_client

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"><li>• As a hostname; for instance, host1</li><li>• As an IPv4 address; for instance, 10.1.12.24</li><li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li><li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li><li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li><li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li><li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li><li>• As a domain name preceded by the . character; for instance, .example.com</li></ul>

## export\_rule

Name	Type	Description
_links	<a href="#">_links</a>	
anonymous_user	string	User ID To Which Anonymous Users Are Mapped.
clients	array[ <a href="#">export_client</a> ]	Array of client matches
index	integer	Index of the rule within the export policy.
protocols	array[string]	
ro_rule	array[string]	Authentication flavors that the read-only access rule governs
rw_rule	array[string]	Authentication flavors that the read/write access rule governs
superuser	array[string]	Authentication flavors that the superuser security type governs

## svm

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

## export\_policy

Name	Type	Description
_links	<a href="#">_links</a>	
id	integer	Export Policy ID
name	string	Export Policy Name
rules	array[ <a href="#">export_rule</a> ]	Rules of the Export Policy.
svm	<a href="#">svm</a>	

## export\_client



Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"> <li>• As a hostname; for instance, host1</li> <li>• As an IPv4 address; for instance, 10.1.12.24</li> <li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li> <li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li> <li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li> <li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li> <li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li> <li>• As a domain name preceded by the . character; for instance, .example.com</li> </ul>

#### \_links

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

export\_client

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"> <li>• As a hostname; for instance, host1</li> <li>• As an IPv4 address; for instance, 10.1.12.24</li> <li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li> <li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li> <li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li> <li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li> <li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li> <li>• As a domain name preceded by the . character; for instance, .example.com</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

Name	Type	Description
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Delete an export policy

DELETE /protocols/nfs/export-policies/{id}

Introduced In: 9.6

Deletes an export policy.

### Related ONTAP commands

- `vserver export-policy delete`

### Learn more

- [DOC /protocols/nfs/export-policies](#)

### Parameters

Name	Type	In	Required	Description
id	integer	path	True	Export Policy ID

### Response

Status: 200, Ok

### Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
1703944	Failed to delete rule

Error Code	Description
1703945	Ruleset is in use by a volume. It cannot be deleted until all volumes that refer to it are first deleted
1703946	Cannot determine if the ruleset is in use by a volume. It cannot be deleted until all volumes that refer to it are first deleted
1703947	Cannot delete default ruleset. This ruleset will be deleted when the owning Vserver is deleted
1703952	Invalid ruleset name provided. No spaces are allowed in a ruleset name
1703953	This ruleset is in use by a qtree export policy. It cannot be deleted until all qtree policies that refer to it are first deleted

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

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 an export policy

GET /protocols/nfs/export-policies/{id}

**Introduced In:** 9.6

Retrieves an export policy.

### Related ONTAP commands

- `vserver export-policy show`
- `vserver export-policy rule show`

### Learn more

- [DOC /protocols/nfs/export-policies](#)

### Parameters

Name	Type	In	Required	Description
id	integer	path	True	Export Policy ID

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
id	integer	Export Policy ID
name	string	Export Policy Name
rules	array[ <a href="#">export_rule</a> ]	Rules of the Export Policy.
svm	<a href="#">svm</a>	

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": 0,
  "name": "string",
  "rules": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "anonymous_user": "string",
      "clients": [
        {
          "match": "0.0.0.0/0"
        }
      ],
      "index": 0,
      "protocols": [
        "string"
      ],
      "ro_rule": [
        "string"
      ],
      "rw_rule": [
        "string"
      ],
      "superuser": [
        "string"
      ]
    }
  ],
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-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
self	<a href="#">href</a>	

export\_client

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"><li>• As a hostname; for instance, host1</li><li>• As an IPv4 address; for instance, 10.1.12.24</li><li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li><li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li><li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li><li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li><li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li><li>• As a domain name preceded by the . character; for instance, .example.com</li></ul>

## export\_rule

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
anonymous_user	string	User ID To Which Anonymous Users Are Mapped.
clients	array[ <a href="#">export_client</a> ]	Array of client matches
index	integer	Index of the rule within the export policy.
protocols	array[string]	
ro_rule	array[string]	Authentication flavors that the read-only access rule governs
rw_rule	array[string]	Authentication flavors that the read/write access rule governs
superuser	array[string]	Authentication flavors that the superuser security type governs

## svm

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

## 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

Name	Type	Description
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Update export policy properties

PATCH /protocols/nfs/export-policies/{id}

**Introduced In:** 9.6

Updates the properties of an export policy to change an export policy name or replace all export policy rules.

### Related ONTAP commands

- `vserver export-policy rename`
- `vserver export-policy rule delete`
- `vserver export-policy rule create`

### Learn more

- [DOC /protocols/nfs/export-policies](#)

### Parameters

Name	Type	In	Required	Description
id	integer	path	True	Export Policy ID

### Request Body

Name	Type	Description
_links	<a href="#">_links</a>	
id	integer	Export Policy ID
name	string	Export Policy Name
rules	array[ <a href="#">export_rule</a> ]	Rules of the Export Policy.
svm	<a href="#">svm</a>	

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "id": 0,
  "name": "string",
  "rules": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "anonymous_user": "string",
      "clients": [
        {
          "match": "0.0.0.0/0"
        }
      ],
      "index": 0,
      "protocols": [
        "string"
      ],
      "ro_rule": [
        "string"
      ],
      "rw_rule": [
        "string"
      ],
      "superuser": [
        "string"
      ]
    }
  ],
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

```
}  
}
```

## Response

Status: 200, Ok

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
1703950	Failed to rename ruleset
1703952	Invalid ruleset name provided. No spaces are allowed in a ruleset name

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\_client

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"><li>• As a hostname; for instance, host1</li><li>• As an IPv4 address; for instance, 10.1.12.24</li><li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li><li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li><li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li><li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li><li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li><li>• As a domain name preceded by the . character; for instance, .example.com</li></ul>

## export\_rule

Name	Type	Description
_links	<a href="#">_links</a>	
anonymous_user	string	User ID To Which Anonymous Users Are Mapped.
clients	array[ <a href="#">export_client</a> ]	Array of client matches
index	integer	Index of the rule within the export policy.
protocols	array[string]	
ro_rule	array[string]	Authentication flavors that the read-only access rule governs
rw_rule	array[string]	Authentication flavors that the read/write access rule governs
superuser	array[string]	Authentication flavors that the superuser security type governs

## svm

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

## export\_policy

Name	Type	Description
_links	<a href="#">_links</a>	
id	integer	Export Policy ID
name	string	Export Policy Name
rules	array[ <a href="#">export_rule</a> ]	Rules of the Export Policy.
svm	<a href="#">svm</a>	

## 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 export policy rules

GET /protocols/nfs/export-policies/{policy.id}/rules

Introduced In: 9.6

Retrieves export policy rules.

### Related ONTAP commands

- `vserver export-policy rule show`

### Learn more

- [DOC /protocols/nfs/export-policies](#)

### Parameters

Name	Type	In	Required	Description
policy.id	integer	path	True	Export Policy ID
anonymous_user	string	query	False	Filter by anonymous_user
index	integer	query	False	Filter by index



Name	Type	In	Required	Description
clients.match	string	query	False	Filter by clients.match
rw_rule	string	query	False	Filter by rw_rule
protocols	string	query	False	Filter by protocols
superuser	string	query	False	Filter by superuser
ro_rule	string	query	False	Filter by ro_rule
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. <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>
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. <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
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 Export Rule records
records	array[ <a href="#">export_rule</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "anonymous_user": "string",
      "clients": [
        {
          "match": "0.0.0.0/0"
        }
      ],
      "index": 0,
      "protocols": [
        "string"
      ],
      "ro_rule": [
        "string"
      ],
      "rw_rule": [
        "string"
      ],
      "superuser": [
        "string"
      ]
    }
  ]
}
```

## 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\_client

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"> <li>• As a hostname; for instance, host1</li> <li>• As an IPv4 address; for instance, 10.1.12.24</li> <li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li> <li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li> <li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li> <li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li> <li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li> <li>• As a domain name preceded by the . character; for instance, .example.com</li> </ul>

#### export\_rule

Name	Type	Description
_links	<a href="#">_links</a>	
anonymous_user	string	User ID To Which Anonymous Users Are Mapped.
clients	array[ <a href="#">export_client</a> ]	Array of client matches
index	integer	Index of the rule within the export policy.
protocols	array[string]	

Name	Type	Description
ro_rule	array[string]	Authentication flavors that the read-only access rule governs
rw_rule	array[string]	Authentication flavors that the read/write access rule governs
superuser	array[string]	Authentication flavors that the superuser security type governs

#### 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 an export policy rule

POST /protocols/nfs/export-policies/{policy.id}/rules

**Introduced In:** 9.6

Creates an export policy rule.

### Required properties

- `policy.id` - Existing export policy for which to create an export rule.
- `clients.match` - List of clients (hostnames, ipaddresses, netgroups, domains) to which the export rule applies.
- `ro_rule` - Used to specify the security type for read-only access to volumes that use the export rule.

- `rw_rule` - Used to specify the security type for read-write access to volumes that use the export rule.

## Default property values

If not specified in POST, the following default property values are assigned:

- `protocols` - *any*
- `anonymous_user` - *none*
- `superuser` - *any*

## Related ONTAP commands

- `vserver export-policy rule create`

## Learn more

- [DOC /protocols/nfs/export-policies](#)

## Parameters

Name	Type	In	Required	Description
<code>policy.id</code>	integer	path	True	Export Policy ID
<code>return_records</code>	boolean	query	False	The default is false. If set to true, the records are returned.  • Default value:

## Request Body

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	
<code>anonymous_user</code>	string	User ID To Which Anonymous Users Are Mapped.
<code>clients</code>	array[ <a href="#">export_client</a> ]	Array of client matches
<code>index</code>	integer	Index of the rule within the export policy.
<code>protocols</code>	array[string]	
<code>ro_rule</code>	array[string]	Authentication flavors that the read-only access rule governs



Name	Type	Description
rw_rule	array[string]	Authentication flavors that the read/write access rule governs
superuser	array[string]	Authentication flavors that the superuser security type governs

### Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "anonymous_user": "string",
  "clients": [
    {
      "match": "0.0.0.0/0"
    }
  ],
  "index": 0,
  "protocols": [
    "string"
  ],
  "ro_rule": [
    "string"
  ],
  "rw_rule": [
    "string"
  ],
  "superuser": [
    "string"
  ]
}
```

### Response

Status: 201, Created

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of Export Rule records
records	array[ <a href="#">export_rule</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "anonymous_user": "string",
      "clients": [
        {
          "match": "0.0.0.0/0"
        }
      ],
      "index": 0,
      "protocols": [
        "string"
      ],
      "ro_rule": [
        "string"
      ],
      "rw_rule": [
        "string"
      ],
      "superuser": [
        "string"
      ]
    }
  ]
}
```

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
1703954	Export policy does not exist
1704036	Invalid clientmatch: missing domain name
1704037	Invalid clientmatch: missing network name
1704038	Invalid clientmatch: missing netgroup name
1704039	Invalid clientmatch
1704040	Invalid clientmatch: address bytes masked out by netmask are non-zero
1704041	Invalid clientmatch: address bytes masked to zero by netmask
1704042	Invalid clientmatch: too many bits in netmask
1704043	Invalid clientmatch: invalid netmask
1704044	Invalid clientmatch: invalid characters in host name
1704045	Invalid clientmatch: invalid characters in domain name
1704050	Invalid clientmatch: clientmatch list contains a duplicate string. Duplicate strings in a clientmatch list are not supported
1704051	Warning: Not adding any new strings to the clientmatch field for ruleindex. All of the match strings are already in the clientmatch list
1704064	Clientmatch host name too long
1704065	Clientmatch domain name too long
3277000	Upgrade all nodes to Data ONTAP 9.0.0 or above to use krb5p as a security flavor in export-policy rules
3277083	User ID is not valid. Enter a value for User ID from 0 to 4294967295

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\_client

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"><li>• As a hostname; for instance, host1</li><li>• As an IPv4 address; for instance, 10.1.12.24</li><li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li><li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li><li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li><li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li><li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li><li>• As a domain name preceded by the . character; for instance, .example.com</li></ul>

## export\_rule

Name	Type	Description
_links	<a href="#">_links</a>	
anonymous_user	string	User ID To Which Anonymous Users Are Mapped.
clients	array[ <a href="#">export_client</a> ]	Array of client matches
index	integer	Index of the rule within the export policy.
protocols	array[string]	
ro_rule	array[string]	Authentication flavors that the read-only access rule governs
rw_rule	array[string]	Authentication flavors that the read/write access rule governs
superuser	array[string]	Authentication flavors that the superuser security type governs

## \_links

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

## 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

Name	Type	Description
target	string	The target parameter that caused the error.

## Delete an export policy rule

DELETE /protocols/nfs/export-policies/{policy.id}/rules/{index}

**Introduced In:** 9.6

Deletes an export policy rule.

### Related ONTAP commands

- `vserver export-policy rule delete`

### Learn more

- [DOC /protocols/nfs/export-policies](#)

### Parameters

Name	Type	In	Required	Description
policy.id	integer	path	True	Export Policy ID
index	integer	path	True	Export Rule Index

### Response

Status: 200, Ok

### Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
1703945	Ruleset is in use by a volume. It cannot be deleted until all volumes that refer to it are first deleted



Error Code	Description
1703946	Cannot determine if the ruleset is in use by a volume. It cannot be deleted until all volumes that refer to it are first deleted
1703954	Export policy does not exist

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

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 an export policy rule

GET /protocols/nfs/export-policies/{policy.id}/rules/{index}

**Introduced In:** 9.6

Retrieves an export policy rule

### Related ONTAP commands

- `vserver export-policy rule show`

### Learn more

- [DOC /protocols/nfs/export-policies](#)

### Parameters

Name	Type	In	Required	Description
policy.id	integer	path	True	Export Policy ID
index	integer	path	True	Export Rule Index

Name	Type	In	Required	Description
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
anonymous_user	string	User ID To Which Anonymous Users Are Mapped.
clients	array[ <a href="#">export_client</a> ]	Array of client matches
index	integer	Index of the rule within the export policy.
protocols	array[string]	
ro_rule	array[string]	Authentication flavors that the read-only access rule governs
rw_rule	array[string]	Authentication flavors that the read/write access rule governs
superuser	array[string]	Authentication flavors that the superuser security type governs

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "anonymous_user": "string",
  "clients": [
    {
      "match": "0.0.0.0/0"
    }
  ],
  "index": 0,
  "protocols": [
    "string"
  ],
  "ro_rule": [
    "string"
  ],
  "rw_rule": [
    "string"
  ],
  "superuser": [
    "string"
  ]
}
```

## 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
self	<a href="#">href</a>	

export\_client

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"><li>• As a hostname; for instance, host1</li><li>• As an IPv4 address; for instance, 10.1.12.24</li><li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li><li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li><li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li><li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li><li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li><li>• As a domain name preceded by the . character; for instance, .example.com</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 the properties of an export policy rule

PATCH /protocols/nfs/export-policies/{policy.id}/rules/{index}

**Introduced In:** 9.6

Updates the properties of an export policy rule to change an export policy rule's index or fields.

### Related ONTAP commands

- `vserver export-policy rule modify`
- `vserver export-policy rule setindex`

### Learn more

- [DOC /protocols/nfs/export-policies](#)

### Parameters

Name	Type	In	Required	Description
policy.id	integer	path	True	Export Policy ID
index	integer	path	True	Export Rule Index

Name	Type	In	Required	Description
new_index	integer	query	False	New Export Rule Index

## Request Body

Name	Type	Description
_links	<a href="#">_links</a>	
anonymous_user	string	User ID To Which Anonymous Users Are Mapped.
clients	array[ <a href="#">export_client</a> ]	Array of client matches
index	integer	Index of the rule within the export policy.
protocols	array[string]	
ro_rule	array[string]	Authentication flavors that the read-only access rule governs
rw_rule	array[string]	Authentication flavors that the read/write access rule governs
superuser	array[string]	Authentication flavors that the superuser security type governs



## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "anonymous_user": "string",
  "clients": [
    {
      "match": "0.0.0.0/0"
    }
  ],
  "index": 0,
  "protocols": [
    "string"
  ],
  "ro_rule": [
    "string"
  ],
  "rw_rule": [
    "string"
  ],
  "superuser": [
    "string"
  ]
}
```

## Response

Status: 200, Ok

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
1703954	Export policy does not exist

Error Code	Description
1704036	Invalid clientmatch: missing domain name
1704037	Invalid clientmatch: missing network name
1704038	Invalid clientmatch: missing netgroup name
1704039	Invalid clientmatch
1704040	Invalid clientmatch: address bytes masked out by netmask are non-zero
1704041	Invalid clientmatch: address bytes masked to zero by netmask
1704042	Invalid clientmatch: too many bits in netmask
1704043	Invalid clientmatch: invalid netmask
1704044	Invalid clientmatch: invalid characters in host name
1704045	Invalid clientmatch: invalid characters in domain name
1704050	Invalid clientmatch: clientmatch list contains a duplicate string. Duplicate strings in a clientmatch list are not supported
1704051	Warning: Not adding any new strings to the clientmatch field for ruleindex. All of the match strings are already in the clientmatch list
1704064	Clientmatch host name too long
1704065	Clientmatch domain name too long
3277000	Upgrade all nodes to Data ONTAP 9.0.0 or above to use krb5p as a security flavor in export-policy rules
3277083	User ID is not valid. Enter a value for User ID from 0 to 4294967295

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\_client

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"><li>• As a hostname; for instance, host1</li><li>• As an IPv4 address; for instance, 10.1.12.24</li><li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li><li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li><li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li><li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li><li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li><li>• As a domain name preceded by the . character; for instance, .example.com</li></ul>

## export\_rule

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
anonymous_user	string	User ID To Which Anonymous Users Are Mapped.
clients	array[ <a href="#">export_client</a> ]	Array of client matches
index	integer	Index of the rule within the export policy.
protocols	array[string]	
ro_rule	array[string]	Authentication flavors that the read-only access rule governs
rw_rule	array[string]	Authentication flavors that the read/write access rule governs
superuser	array[string]	Authentication flavors that the superuser security type governs

## 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 export policy rule clients

GET /protocols/nfs/export-policies/{policy.id}/rules/{index}/clients

**Introduced In:** 9.6

Retrieves export policy rule clients.

## Learn more

- [DOC /protocols/nfs/export-policies](#)

## Parameters

Name	Type	In	Required	Description
policy.id	integer	path	True	Export Policy ID
index	integer	path	True	Export Rule Index
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. <ul style="list-style-type: none"><li>• Default value: 1</li></ul>

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>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.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
num_records	integer	Number of export rule client records
records	array[ <a href="#">export_client</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "match": "0.0.0.0/0"
    }
  ]
}
```

## 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>	

export\_client

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"> <li>• As a hostname; for instance, host1</li> <li>• As an IPv4 address; for instance, 10.1.12.24</li> <li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li> <li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li> <li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li> <li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li> <li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li> <li>• As a domain name preceded by the . character; for instance, .example.com</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

Name	Type	Description
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Create an export policy rule client

POST /protocols/nfs/export-policies/{policy.id}/rules/{index}/clients

**Introduced In:** 9.6

Creates an export policy rule client

### Required properties

- `policy.id` - Existing export policy that contains export policy rules for the client being added.
- `index` - Existing export policy rule for which to create an export client.
- `match` - Base name for the export policy client.

### Related ONTAP commands

- `vserver export-policy rule add-clientmatches`

### Learn more

- [DOC /protocols/nfs/export-policies](#)

### Parameters

Name	Type	In	Required	Description
policy.id	integer	path	True	Export Policy ID
index	integer	path	True	Export Rule Index
return_records	boolean	query	False	The default is false. If set to true, the records are returned. <ul style="list-style-type: none"> <li>• Default value:</li> </ul>

## Request Body

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"><li>• As a hostname; for instance, host1</li><li>• As an IPv4 address; for instance, 10.1.12.24</li><li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li><li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li><li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li><li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li><li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li><li>• As a domain name preceded by the . character; for instance, .example.com</li></ul>

### Example request

```
{  
  "match": "0.0.0.0/0"  
}
```

### Response

```
Status: 201, Created
```

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of export rule client records
records	array[ <a href="#">export_client</a> ]	

### Example response

```

{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "match": "0.0.0.0/0"
    }
  ]
}

```

### Error

Status: Default

#### ONTAP Error Response Codes

Error Code	Description
1703954	Export policy does not exist
1704036	Invalid clientmatch: missing domain name
1704037	Invalid clientmatch: missing network name
1704038	Invalid clientmatch: missing netgroup name
1704039	Invalid clientmatch
1704040	Invalid clientmatch: address bytes masked out by netmask are non-zero

Error Code	Description
1704041	Invalid clientmatch: address bytes masked to zero by netmask
1704042	Invalid clientmatch: too many bits in netmask
1704043	Invalid clientmatch: invalid netmask
1704044	Invalid clientmatch: invalid characters in host name
1704045	Invalid clientmatch: invalid characters in domain name
1704050	Invalid clientmatch: the clientmatch list contains a duplicate string. Duplicate strings in a clientmatch list are not supported
1704051	Warning: Not adding any new strings to the clientmatch field for ruleindex. All of the match strings are already in the clientmatch list
1704064	Clientmatch host name too long
1704065	Clientmatch domain name too long

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

export\_client

Name	Type	Description
match	string	<p>Client Match Hostname, IP Address, Netgroup, or Domain. You can specify the match as a string value in any of the following formats:</p> <ul style="list-style-type: none"><li>• As a hostname; for instance, host1</li><li>• As an IPv4 address; for instance, 10.1.12.24</li><li>• As an IPv6 address; for instance, fd20:8b1e:b255:4071::100:1</li><li>• As an IPv4 address with a subnet mask expressed as a number of bits; for instance, 10.1.12.0/24</li><li>• As an IPv6 address with a subnet mask expressed as a number of bits; for instance, fd20:8b1e:b255:4071::/64</li><li>• As an IPv4 address with a network mask; for instance, 10.1.16.0/255.255.255.0</li><li>• As a netgroup, with the netgroup name preceded by the @ character; for instance, @eng</li><li>• As a domain name preceded by the . character; for instance, .example.com</li></ul>

href

Name	Type	Description
href	string	

\_links

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



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

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 an export policy client

DELETE /protocols/nfs/export-policies/{policy.id}/rules/{index}/clients/{match}

Introduced In: 9.6

Deletes an export policy client

### Related ONTAP commands

- `vserver export-policy rule remove-clientmatches`

### Learn more

- [DOC /protocols/nfs/export-policies](#)

### Parameters

Name	Type	In	Required	Description
policy.id	integer	path	True	Export Policy ID

Name	Type	In	Required	Description
index	integer	path	True	Export Rule Index
match	string	path	True	Export Client Match

## Response

Status: 200, Ok

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
1703954	Export policy does not exist
1704036	Invalid clientmatch: missing domain name
1704037	Invalid clientmatch: missing network name
1704038	Invalid clientmatch: missing netgroup name
1704039	Invalid clientmatch
1704040	Invalid clientmatch: address bytes masked out by netmask are non-zero
1704041	Invalid clientmatch: address bytes masked to zero by netmask
1704042	Invalid clientmatch: too many bits in netmask
1704043	Invalid clientmatch: invalid netmask
1704044	Invalid clientmatch: invalid characters in host name
1704045	Invalid clientmatch: invalid characters in domain name
1704050	Invalid clientmatch: the clientmatch list contains a duplicate string. Duplicate strings in a clientmatch list are not supported
1704052	Warning: Not removing any strings from the clientmatch field for ruleindex. None of the match strings were found in the clientmatch list
1704064	Clientmatch host name too long
1704065	Clientmatch domain name too long

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

#### 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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