



Manage NFS over TLS interface configuration details

REST API reference

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Manage NFS over TLS interface configuration details

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Examples

Retrieving the NFS over TLS interface configuration details

```
# The API:
GET /api/protocols/nfs/tls/interfaces

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/nfs/tls/interfaces"
```

Updating the NFS over TLS interface configuration

```
# The API:
PATCH /api/protocols/nfs/tls/interfaces/{interface.uuid}

# The call:
curl -d "@test_patch_nfs_tls_interface.txt" -X PATCH "https://<mgmt-ip>/api/protocols/nfs/tls/interfaces/e62936de-7342-11e8-9eb4-0050568be2b7"
test_patch_nfs_tls_interface.txt (body) :
{
  "enabled" : "true"
}
```

Retrieve NFS over TLS interface configurations

```
GET /protocols/nfs/tls/interfaces
```

Introduced In: 9.15

Retrieves NFS over TLS interfaces.

Related ONTAP commands

- `vserver nfs tls interface show`

Learn more

- [DOC /protocols/nfs/tls/interfaces](#)

Parameters

Name	Type	In	Required	Description
certificate.name	string	query	False	Filter by certificate.name
certificate.uuid	string	query	False	Filter by certificate.uuid
svm.name	string	query	False	Filter by svm.name
svm.uuid	string	query	False	Filter by svm.uuid
interface.uuid	string	query	False	Filter by interface.uuid
interface.name	string	query	False	Filter by interface.name
interface.ip.address	string	query	False	Filter by interface.ip.address
enabled	boolean	query	False	Filter by enabled
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. • Default value: 1

Name	Type	In	Required	Description
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. • Default value: 15 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
num_records	integer	Number of records.
records	array[nfs_tls_interface]	

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "certificate": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "string",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "interface": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "ip": {
          "address": "10.10.10.7"
        },
        "name": "lif1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        }
      }
    },
  ],
}
```

```
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_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	href	
self	href	

_links

Name	Type	Description
self	href	

certificate

Specifies the certificate that is used for creating NFS over TLS connections.

Name	Type	Description
_links	_links	
name	string	Certificate name
uuid	string	Certificate UUID

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address

interface

Network interface.

Name	Type	Description
_links	_links	
ip	ip	IP information

Name	Type	Description
name	string	The name of the interface. If only the name is provided, the SVM scope must be provided by the object this object is embedded in.
uuid	string	The UUID that uniquely identifies the interface.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

nfs_tls_interface

Name	Type	Description
_links	_links	
certificate	certificate	Specifies the certificate that is used for creating NFS over TLS connections.
enabled	boolean	Indicates whether NFS over TLS is enabled.
interface	interface	Network interface.
svm	svm	SVM, applies only to SVM-scoped objects.

error_arguments

Name	Type	Description
code	string	Argument code

Name	Type	Description
message	string	Message argument

returned_error

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

Retrieve an NFS over TLS interface configuration

GET /protocols/nfs/tls/interfaces/{interface.uuid}

Introduced In: 9.15

Retrieves an NFS over TLS interface.

Related ONTAP commands

- `vserver nfs tls interface show`

Learn more

- [DOC /protocols/nfs/tls/interfaces](#)

Parameters

Name	Type	In	Required	Description
interface.uuid	string	path	True	Network interface UUID.
fields	array[string]	query	False	Specify the fields to return.

Response

Status: 200, Ok

Name	Type	Description
_links	_links	
certificate	certificate	Specifies the certificate that is used for creating NFS over TLS connections.
enabled	boolean	Indicates whether NFS over TLS is enabled.
interface	interface	Network interface.
svm	svm	SVM, applies only to SVM-scoped objects.

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "string",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "interface": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7"
    },
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Error

Status: Default

ONTAP Error Response codes

Error codes	Description
262197	The value provided is invalid for field "fields".

Name	Type	Description
error	returned_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	href	

certificate

Specifies the certificate that is used for creating NFS over TLS connections.

Name	Type	Description
_links	_links	
name	string	Certificate name
uuid	string	Certificate UUID

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address

interface

Network interface.

Name	Type	Description
_links	_links	
ip	ip	IP information
name	string	The name of the interface. If only the name is provided, the SVM scope must be provided by the object this object is embedded in.
uuid	string	The UUID that uniquely identifies the interface.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	_links	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

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

Update the properties of an NFS over TLS interface

PATCH /protocols/nfs/tls/interfaces/{interface.uuid}

Introduced In: 9.15

Updates the properties of an NFS over TLS interface.

Optional query parameter

- `skip-san-validation` - Specifies whether the server should ignore validating the certificate for Subject

Alternate Name.

Related ONTAP commands

- `vserver nfs tls interface modify`
- `vserver nfs tls interface enable`
- `vserver nfs tls interface disable`

Learn more

- [DOC /protocols/nfs/tls/interfaces](#)

Parameters

Name	Type	In	Required	Description
interface.uuid	string	path	True	Network interface UUID.
skip_san_validation	boolean	query	False	Indicates whether Subject Alternate Name (SAN) validation has to be skipped. • Introduced in: 9.17

Request Body

Name	Type	Description
certificate	certificate	Specifies the certificate that is used for creating NFS over TLS connections.
enabled	boolean	Indicates whether NFS over TLS is enabled.
interface	interface	Network interface.
svm	svm	SVM, applies only to SVM-scoped objects.

Example request

```
{
  "certificate": {
    "name": "string",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "interface": {
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response codes

Error codes	Description
2	The value provided is an invalid value for field "interface.uuid".
4	The entry doesn't exist
3277204	TLS already enabled/disabled on this LIF.
3277205	Cannot enable TLS because no certificate was provided.
3277206	The "enabled" is a required field.
3277210	The FQDN of the LIF IP address and the common name present in the certificate do not match. Update the certificate so that the common name and LIF FQDN match and retry the operation.

Error codes	Description
3277217	Failed to enable TLS on LIF on vserver because the certificate does not have LIF as subject alternate name.
92405900	Certificate not found for the SVM.
92406020	Only certificates of type 'server' are supported on the SVM.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

certificate

Specifies the certificate that is used for creating NFS over TLS connections.

Name	Type	Description
name	string	Certificate name
uuid	string	Certificate UUID

ip

IP information

interface

Network interface.

Name	Type	Description
ip	ip	IP information
name	string	The name of the interface. If only the name is provided, the SVM scope must be provided by the object this object is embedded in.
uuid	string	The UUID that uniquely identifies the interface.

svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
name	string	The name of the SVM. This field cannot be specified in a PATCH method.

Name	Type	Description
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

nfs_tls_interface

Name	Type	Description
certificate	certificate	Specifies the certificate that is used for creating NFS over TLS connections.
enabled	boolean	Indicates whether NFS over TLS is enabled.
interface	interface	Network interface.
svm	svm	SVM, applies only to SVM-scoped objects.

error_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned_error

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

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