



Manage NFS over TLS interface configuration details

ONTAP 9.15.1 REST API reference

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Manage NFS over TLS interface configuration details

Protocols NFS tls interfaces endpoint overview

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 |
| enabled | boolean | query | False | Filter by enabled |
| 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.ip.address | string | query | False | Filter by interface.ip.address |
| interface.name | string | query | False | Filter by interface.name |
| 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">• Default value: 1 |

| 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"> • Default value: 1 • 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"
        }
      },
      "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"
      }
    },
    "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 |
|------|----------------------|-------------|
| 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.

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. |

Request Body

| 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 request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "certificate": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "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"
  }
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response codes

| Error codes | Description |
|-------------|--|
| 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. |

| 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. |

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 |
| message | string | Message argument |

returned_error

| Name | Type | Description |
|-----------|--|-------------------|
| arguments | array[error_arguments] | Message arguments |
| code | string | Error code |

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

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