



View and update Kerberos interfaces

ONTAP 9.8 REST API reference

NetApp
August 29, 2024

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View and update Kerberos interfaces

Protocols NFS Kerberos interfaces endpoint overview

Examples

Retrieving the Kerberos interface configuration details

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

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

Updating the Kerberos interface configuration

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

# The call:
curl -d "@test_patch_kerb_interface.txt" -X PATCH "https://<mgmt-ip>/api/protocols/nfs/kerberos/interfaces/e62936de-7342-11e8-9eb4-0050568be2b7"
test_patch_kerb_interface.txt (body):
{
  "enabled" : "true",
  "spn": "nfs/datalif1-vsimg3-d1.sim.netapp.com@NFS-NSR-W01.RTP.NETAPP.COM",
  "user" : "administrator",
  "password" : "Hello123!"
}
```

Retrieve Kerberos interfaces

```
GET /protocols/nfs/kerberos/interfaces
```

Introduced In: 9.6

Retrieves Kerberos interfaces.

Related ONTAP commands

- `vserver nfs kerberos interface show`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|----------------------|---------------|-------|----------|---|
| svm.uuid | string | query | False | Filter by svm.uuid |
| svm.name | string | query | False | Filter by svm.name |
| encryption_types | string | query | False | Filter by encryption_types |
| spn | string | query | False | Filter by spn |
| enabled | boolean | query | False | Filter by enabled |
| interface.name | string | query | False | Filter by interface.name |
| interface.uuid | string | query | False | Filter by interface.uuid |
| interface.ip.address | string | query | False | Filter by interface.ip.address |
| 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[kerberos_interface] | |

Example response

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

```
    "user": "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 | href | |
| self | href | |

_links

| Name | Type | Description |
|------|----------------------|-------------|
| self | href | |

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. |
| uuid | string | The UUID that uniquely identifies the interface. |

svm

| Name | Type | Description |
|--------|------------------------|----------------------|
| _links | _links | |
| name | string | The name of the SVM. |

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

kerberos_interface

| Name | Type | Description |
|---------------------|---------------------------|---|
| _links | _links | |
| enabled | boolean | Specifies if Kerberos is enabled. |
| encryption_types | array[string] | |
| interface | interface | Network interface |
| keytab_uri | string | Load keytab from URI |
| organizational_unit | string | Organizational unit |
| password | string | Account creation password |
| spn | string | Service principal name. Valid in PATCH. |
| svm | svm | |
| user | string | Account creation user name |

error_arguments

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

error

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

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

Retrieve a Kerberos interface

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

Introduced In: 9.6

Retrieves a Kerberos interface.

Related ONTAP commands

- `vserver nfs kerberos interface show`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|---|
| interface.uuid | string | path | True | Network interface UUID <ul style="list-style-type: none"> • Introduced in: 9.7 |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|------------------------|---------------------------|-----------------------------------|
| _links | _links | |
| enabled | boolean | Specifies if Kerberos is enabled. |
| encryption_types | array[string] | |
| interface | interface | Network interface |

| Name | Type | Description |
|---------------------|---------------------|---|
| keytab_uri | string | Load keytab from URI |
| organizational_unit | string | Organizational unit |
| password | string | Account creation password |
| spn | string | Service principal name. Valid in PATCH. |
| svm | svm | |
| user | string | Account creation user name |

Example response

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

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. |
| uuid | string | The UUID that uniquely identifies the interface. |

svm

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

Update Kerberos interface properties

PATCH `/protocols/nfs/kerberos/interfaces/{interface.uuid}`

Introduced In: 9.6

Updates the properties of a Kerberos interface.

Related ONTAP commands

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

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|---|
| interface.uuid | string | path | True | Network interface UUID <ul style="list-style-type: none"> • Introduced in: 9.7 |

Request Body

| Name | Type | Description |
|---------------------|---------------------------|---|
| _links | _links | |
| enabled | boolean | Specifies if Kerberos is enabled. |
| encryption_types | array[string] | |
| interface | interface | Network interface |
| keytab_uri | string | Load keytab from URI |
| organizational_unit | string | Organizational unit |
| password | string | Account creation password |
| spn | string | Service principal name. Valid in PATCH. |
| svm | svm | |
| user | string | Account creation user name |

Example request

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

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response codes

| Error codes | Description |
|-------------|--|
| 1966082 | LIF could not be found in database. Contact technical support for assistance. |
| 3276801 | Failed to bind service principal name on LIF. |
| 3276809 | Failed to disable NFS Kerberos on LIF. |
| 3276832 | Failed to insert Kerberos attributes to database. |
| 3276842 | Internal error. Failed to import Kerberos keytab file into the management databases. Contact technical support for assistance. |
| 3276861 | Kerberos is already enabled/disabled on this LIF. |
| 3276862 | Kerberos service principal name is required. |
| 3276889 | Failed to enable NFS Kerberos on LIF. |
| 3276937 | Failed to lookup the Vserver for the virtual interface. |
| 3276941 | Kerberos is a required field. |
| 3276942 | Service principal name is invalid. It must of the format:"nfs/<LIF-FQDN>@REALM"/<LIF-FQDN> |
| 3276944 | Internal error. Reason: Failed to initialize the Kerberos context |
| 3276945 | Internal error. Reason: Failed to parse the service principal name |
| 3276951 | Warning: Skipping unsupported encryption type for service principal name |
| 3276952 | "organizational_unit" option cannot be used for "Other" vendor. |
| 3276965 | Account sharing across Vservers is not allowed. Use a different service principal name unique within the first 15 characters. |
| 3277019 | Cannot specify -force when enabling Kerberos. |
| 3277020 | Modifying the NFS Kerberos configuration for a LIF that is not configured for NFS is not supported. |
| 3277043 | Keytab import failed due to missing keys. Keys for encryption types are required for Vserver but found no matching keys for service principal name. Generate the keytab file with all required keys and try again. |

| 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 | href | |

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. |
| uuid | string | The UUID that uniquely identifies the interface. |

svm

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

kerberos_interface

| Name | Type | Description |
|---------------------|---------------------------|---|
| _links | _links | |
| enabled | boolean | Specifies if Kerberos is enabled. |
| encryption_types | array[string] | |
| interface | interface | Network interface |
| keytab_uri | string | Load keytab from URI |
| organizational_unit | string | Organizational unit |
| password | string | Account creation password |
| spn | string | Service principal name. Valid in PATCH. |
| svm | svm | |
| user | string | Account creation user name |

error_arguments

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

error

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

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