



# **View and update Kerberos interfaces**

## REST API reference

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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-vsrm3-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                                                                                                                                                      |
|----------------------|---------------|-------|----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| encryption_types     | string        | query | False    | Filter by encryption_types                                                                                                                                       |
| enabled              | boolean       | query | False    | Filter by enabled                                                                                                                                                |
| 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                                                                                                                                   |
| svm.name             | string        | query | False    | Filter by svm.name                                                                                                                                               |
| svm.uuid             | string        | query | False    | Filter by svm.uuid                                                                                                                                               |
| machine_account      | string        | query | False    | Filter by machine_account <ul style="list-style-type: none"><li>• Introduced in: 9.12</li></ul>                                                                  |
| spn                  | string        | query | False    | Filter by spn                                                                                                                                                    |
| 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       |
|-------------|---------------------------------------------|-------------------|
| _links      | <a href="#">_links</a>                      |                   |
| num_records | integer                                     | Number of records |
| records     | array[ <a href="#">kerberos_interface</a> ] |                   |

## Example response

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

```
}  
]  
}
```

## Error

Status: Default, Error

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

\_links

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

ip

IP information

| Name    | Type   | Description          |
|---------|--------|----------------------|
| address | string | IPv4 or IPv6 address |

interface

Network interface

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

#### kerberos\_interface

| Name             | Type                      | Description                                                  |
|------------------|---------------------------|--------------------------------------------------------------|
| _links           | <a href="#">_links</a>    |                                                              |
| enabled          | boolean                   | Specifies if Kerberos is enabled.                            |
| encryption_types | array[string]             |                                                              |
| interface        | <a href="#">interface</a> | Network interface                                            |
| machine_account  | string                    | Specifies the machine account to create in Active Directory. |
| spn              | string                    | Service principal name. Valid in PATCH.                      |
| svm              | <a href="#">svm</a>       | 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[ <a href="#">error_arguments</a> ] | Message arguments |
| code      | string                                   | Error code        |

| Name    | Type   | Description                                 |
|---------|--------|---------------------------------------------|
| message | string | Error message                               |
| 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"> <li>• Introduced in: 9.7</li> </ul> |
| fields         | array[string] | query | False    | Specify the fields to return.                                                                 |

### Response

Status: 200, Ok

| Name             | Type                   | Description                       |
|------------------|------------------------|-----------------------------------|
| _links           | <a href="#">_links</a> |                                   |
| enabled          | boolean                | Specifies if Kerberos is enabled. |
| encryption_types | array[string]          |                                   |

| Name            | Type                      | Description                                                  |
|-----------------|---------------------------|--------------------------------------------------------------|
| interface       | <a href="#">interface</a> | Network interface                                            |
| machine_account | string                    | Specifies the machine account to create in Active Directory. |
| spn             | string                    | Service principal name. Valid in PATCH.                      |
| svm             | <a href="#">svm</a>       | SVM, applies only to SVM-scoped objects.                     |

## Example response

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

## Error

Status: Default, Error

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

ip

IP information

| Name    | Type   | Description          |
|---------|--------|----------------------|
| address | string | IPv4 or IPv6 address |

interface

Network interface

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

error\_arguments

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

returned\_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 Kerberos interface properties

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

**Introduced In:** 9.6

Updates the properties of a Kerberos interface.

### Optional property

- **force** - Specifies whether the server should ignore any error encountered while deleting the corresponding machine account on the KDC and also disables Kerberos on the LIF. This is applicable only when disabling Kerberos.

### 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"><li>• Introduced in: 9.7</li></ul> |

## Request Body

| Name                | Type                      | Description                                                                                                                                                         |
|---------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| enabled             | boolean                   | Specifies if Kerberos is enabled.                                                                                                                                   |
| encryption_types    | array[string]             |                                                                                                                                                                     |
| force               | boolean                   | Specifies whether the server should ignore any error encountered while deleting the corresponding machine account on the KDC and also disables Kerberos on the LIF. |
| interface           | <a href="#">interface</a> | Network interface                                                                                                                                                   |
| keytab_uri          | string                    | Load keytab from URI                                                                                                                                                |
| machine_account     | string                    | Specifies the machine account to create in Active Directory.                                                                                                        |
| organizational_unit | string                    | Organizational unit                                                                                                                                                 |
| password            | string                    | Account creation password                                                                                                                                           |
| spn                 | string                    | Service principal name. Valid in PATCH.                                                                                                                             |
| svm                 | <a href="#">svm</a>       | SVM, applies only to SVM-scoped objects.                                                                                                                            |
| user                | string                    | Account creation user name                                                                                                                                          |



## Example request

```
{
  "encryption_types": [
    "string"
  ],
  "interface": {
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "keytab_uri": "string",
  "machine_account": "string",
  "organizational_unit": "string",
  "password": "string",
  "spn": "string",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "user": "string"
}
```

## Response

Status: 200, Ok

## Error

Status: Default

### ONTAP Error Response codes

| Error codes | Description                                                                                                                    |
|-------------|--------------------------------------------------------------------------------------------------------------------------------|
| 4           | The entry doesn't exist                                                                                                        |
| 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. |

| Error codes | Description                                                                                                                                                                                                        |
|-------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 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>                                                                                                                         |
| 3276943     | Lookup of Kerberos realm failed. The entry doesn't exist.                                                                                                                                                          |
| 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. |
| 3277133     | The <i>machine_account</i> property can only be specified when the KDC vendor is Microsoft.                                                                                                                        |

## Definitions

## See Definitions

href

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

\_links

ip

IP information

interface

Network interface

| Name | Type               | Description                                                                                                                       |
|------|--------------------|-----------------------------------------------------------------------------------------------------------------------------------|
| ip   | <a href="#">ip</a> | 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.              |
| uuid | string | The unique identifier of the SVM. This field cannot be specified in a PATCH method. |

kerberos\_interface

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

| Name                | Type                      | Description                                                                                                                                                         |
|---------------------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| force               | boolean                   | Specifies whether the server should ignore any error encountered while deleting the corresponding machine account on the KDC and also disables Kerberos on the LIF. |
| interface           | <a href="#">interface</a> | Network interface                                                                                                                                                   |
| keytab_uri          | string                    | Load keytab from URI                                                                                                                                                |
| machine_account     | string                    | Specifies the machine account to create in Active Directory.                                                                                                        |
| organizational_unit | string                    | Organizational unit                                                                                                                                                 |
| password            | string                    | Account creation password                                                                                                                                           |
| spn                 | string                    | Service principal name. Valid in PATCH.                                                                                                                             |
| svm                 | <a href="#">svm</a>       | SVM, applies only to SVM-scoped objects.                                                                                                                            |
| user                | string                    | Account creation user name                                                                                                                                          |

#### error\_arguments

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

#### returned\_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. |

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