



## **View and update Kerberos interfaces**

### **ONTAP 9.14.1 REST API reference**

NetApp  
June 13, 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-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
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
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
enabled	boolean	query	False	Filter by enabled
encryption_types	string	query	False	Filter by encryption_types
spn	string	query	False	Filter by spn
machine_account	string	query	False	Filter by machine_account <ul style="list-style-type: none"><li>• Introduced in: 9.12</li></ul>
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"
      ],
      "interface": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "ip": {
          "address": "10.10.10.7"
        },
        "name": "lif1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "keytab_uri": "string",
      "machine_account": "string",
      "organizational_unit": "string",
      "password": "string",
      "spn": "string",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svml",

```

```
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "user": "string"
}
]
```

## 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]	
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
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]	
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 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",
  "machine_account": "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	<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
_links	<a href="#">_links</a>	
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

```
{
  "_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",
  "machine_account": "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	<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.

#### kerberos\_interface

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

#### 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.

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