



# Manage NDMP session configurations

## REST API reference

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# Manage NDMP session configurations

## Manage NDMP session configurations

You can use this API to manage diagnostic information on NDMP sessions belonging to a specific SVM in the case of SVM-scope or to a specific node in the case of node-scope.

### Examples

Retrieves NDMP session details under node-scope:

```
GET "/api/protocols/ndmp/sessions/9b372ce7-3a4b-11e9-a7f8-0050568e3d73/2000"
```

Retrieves NDMP session details under SVM-scope:

```
GET "/api/protocols/ndmp/sessions/13bb2092-458b-11e9-9c06-0050568ea604/2000:4000"
```

Deletes NDMP session details under node-scope:

```
DELETE "/api/protocols/ndmp/sessions/9b372ce7-3a4b-11e9-a7f8-0050568e3d73/2000"
```

Deletes NDMP session details under SVM-scope:

```
DELETE "/api/protocols/ndmp/sessions/13bb2092-458b-11e9-9c06-0050568ea604/2000:4000"
```

## Retrieve NDMP sessions

GET /protocols/ndmp/sessions

**Introduced In:** 9.7

Retrieves a collection of NDMP sessions. In the case of SVM-scope, if this API is executed on a data IP, it displays the list of NDMP sessions under the specified SVM; otherwise it displays the list of NDMP sessions for all the SVMs under the cluster. In the case of node-scope, it displays the list of NDMP sessions for all nodes.

## Related ONTAP commands

- vserver services ndmp probe
- system services ndmp probe

## Learn more

- [DOC /protocols/ndmp/sessions](#)

## Parameters

| Name                    | Type    | In    | Required | Description   |
|-------------------------|---------|-------|----------|---|
| client_port             | integer | query | False    | Filter by client_port   |
| uuid                    | string  | query | False    | Filter by uuid <ul style="list-style-type: none"><li>• Introduced in: 9.9</li></ul> |
| data.connection.address | string  | query | False    | Filter by data.connection.address   |
| data.connection.port    | integer | query | False    | Filter by data.connection.port  |
| data.connection.type    | string  | query | False    | Filter by data.connection.type  |
| data.bytes_processed    | integer | query | False    | Filter by data.bytes_processed  |
| data.operation          | string  | query | False    | Filter by data.operation  |
| data.state              | string  | query | False    | Filter by data.state  |
| data.reason             | string  | query | False    | Filter by data.reason   |
| data_path               | string  | query | False    | Filter by data_path   |
| node.name               | string  | query | False    | Filter by node.name   |
| node.uuid               | string  | query | False    | Filter by node.uuid   |
| tape_mode               | string  | query | False    | Filter by tape_mode   |
| client_address          | string  | query | False    | Filter by client_address  |

| Name                     | Type    | In    | Required | Description                        |
|--------------------------|---------|-------|----------|------------------------------------|
| mover.reason             | string  | query | False    | Filter by mover.reason             |
| mover.state              | string  | query | False    | Filter by mover.state              |
| mover.mode               | string  | query | False    | Filter by mover.mode               |
| mover.connection.address | string  | query | False    | Filter by mover.connection.address |
| mover.connection.port    | integer | query | False    | Filter by mover.connection.port    |
| mover.connection.type    | string  | query | False    | Filter by mover.connection.type    |
| mover.bytes_moved        | integer | query | False    | Filter by mover.bytes_moved        |
| id                       | string  | query | False    | Filter by id                       |
| backup_engine            | string  | query | False    | Filter by backup_engine            |
| tape_device              | string  | query | False    | Filter by tape_device              |
| scsi.lun_id              | integer | query | False    | Filter by scsi.lun_id              |
| scsi.host_adapter        | integer | query | False    | Filter by scsi.host_adapter        |
| scsi.device_id           | string  | query | False    | Filter by scsi.device_id           |
| scsi.target_id           | integer | query | False    | Filter by scsi.target_id           |
| source_address           | string  | query | False    | Filter by source_address           |
| svm.name                 | string  | query | False    | Filter by svm.name                 |

| Name           | Type          | In    | Required | Description   |
|----------------|---------------|-------|----------|---|
| svm.uuid       | string        | query | False    | Filter by svm.uuid  |
| 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    | <p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> <li>Default value: 1</li> </ul>   |
| 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: 15</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> |             |

| Name        | Type                | Description        |
|-------------|---------------------|--------------------|
| num_records | integer             | Number of Records. |
| records     | array[ndmp_session] |                    |

## Example response

```
{  
  "_links": {  
    "next": {  
      "href": "/api/resourcelink"  
    },  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "num_records": 1,  
  "records": [  
    {  
      "_links": {  
        "self": {  
          "href": "/api/resourcelink"  
        }  
      },  
      "backup_engine": "string",  
      "client_address": "string",  
      "data": {  
        "bytes_processed": 5000,  
        "connection": {  
          "address": "string",  
          "port": 18600,  
          "type": "local"  
        },  
        "operation": "backup",  
        "reason": "aborted",  
        "state": "halted"  
      },  
      "data_path": "/vserver1/vol1",  
      "id": "string",  
      "mover": {  
        "bytes_moved": 645120,  
        "connection": {  
          "address": "string",  
          "port": 18600,  
          "type": "local"  
        },  
        "mode": "read",  
        "reason": "end_of_media",  
        "state": "connected"  
      },  
      "node": {  
        "bytes": 1000000000000000000,  
        "connection": {  
          "address": "string",  
          "port": 18600,  
          "type": "local"  
        },  
        "mode": "read",  
        "reason": "end_of_media",  
        "state": "connected"  
      }  
    }  
  ]  
}
```

```

    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "node1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "scsi": {
    "device_id": "string"
  },
  "source_address": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "tape_device": "nrst0a",
  "tape_mode": "write",
  "uuid": "string"
}
]
}

```

## Error

Status: Default

ONTAP Error Response codes

| Error code | Description                                      |
|------------|--|
| 68812805   | Failed to obtain the NDMP mode of the operation. |

| 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 |             |

ndmp\_connect

Indicates the NDMP connection attributes.

| Name    | Type    | Description                                 |
|---------|---------|---|
| address | string  | Indicates the NDMP data connection address. |
| port    | integer | Indicates the NDMP data connection port.    |
| type    | string  | The different NDMP connection types.        |

ndmp\_data

Information about the NDMP data server.

| Name            | Type         | Description                               |
|-----------------|--------------|---|
| bytes_processed | integer      | Indicates the NDMP data bytes processed.  |
| connection      | ndmp_connect | Indicates the NDMP connection attributes. |
| operation       | string       | Indicates the NDMP data server operation. |

| Name   | Type   | Description  |
|--------|--------|--|
| reason | string | If the NDMP mover or data server is in the paused or halted state, then this property provides additional information for the state. |
| state  | string | The various states of the NDMP state machine during a backup or restore workflow.  |

## ndmp\_mover

Information about the NDMP mover.

| Name        | Type                         | Description  |
|-------------|------------------------------|--|
| bytes_moved | integer                      | Indicates the NDMP mover bytes moved.  |
| connection  | <a href="#">ndmp_connect</a> | Indicates the NDMP connection attributes.  |
| mode        | string                       | The modes of a NDMP mover instance.  |
| reason      | string                       | If the NDMP mover or data server is in the paused or halted state, then this property provides additional information for the state. |
| state       | string                       | The various states of the NDMP state machine during a backup or restore workflow.  |

## node

| Name   | Type                   | Description |
|--------|------------------------|-------------|
| _links | <a href="#">_links</a> |             |
| name   | string                 |             |
| uuid   | string                 |             |

## ndmp\_scsi

Information about the NDMP SCSI server.

| Name         | Type    | Description                           |
|--------------|---------|---------------------------------------|
| device_id    | string  | Indicates the NDMP SCSI device ID.    |
| host_adapter | integer | Indicates the NDMP SCSI host adapter. |
| lun_id       | integer | Indicates the NDMP SCSI LUN ID.       |
| target_id    | integer | Indicates the NDMP SCSI target ID.    |

## 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. |

## ndmp\_session

| Name           | Type                      | Description                                |
|----------------|---------------------------|--|
| _links         | <a href="#">_links</a>    |  |
| backup_engine  | string                    | Indicates the NDMP backup engine.          |
| client_address | string                    | Indicates the NDMP client address.         |
| client_port    | integer                   | Indicates the NDMP client port.            |
| data           | <a href="#">ndmp_data</a> | Information about the NDMP data server.    |
| data_path      | string                    | Indicates the NDMP backup or restore path. |

| Name           | Type       | Description   |
|----------------|------------|---|
| id             | string     | NDMP session identifier.  |
| mover          | ndmp_mover | Information about the NDMP mover.   |
| node           | node       |   |
| scsi           | ndmp_scsi  | Information about the NDMP SCSI server.   |
| source_address | string     | Indicates the NDMP local address on which connection was established.                         |
| svm            | svm        | SVM, applies only to SVM-scoped objects.  |
| tape_device    | string     | Indicates the NDMP tape device.   |
| tape_mode      | string     | The modes of a NDMP mover instance.   |
| uuid           | string     | The NDMP node or SVM UUID based on whether NDMP is operating in node-scope or SVM-scope mode. |

#### 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     |

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

## Delete an NDMP session

DELETE /protocols/ndmp/sessions/{owner.uuid}/{session.id}

**Introduced In:** 9.7

Deletes a specific NDMP session.

### Related ONTAP commands

- vserver services ndmp kill
- system services ndmp kill

### Learn more

- [DOC /protocols/ndmp/sessions](#)

### Parameters

| Name       | Type   | In   | Required | Description        |
|------------|--------|------|----------|--------------------|
| owner.uuid | string | path | True     | NDMP node UUID     |
| session.id | string | path | True     | Session identifier |

### Response

Status: 200, Ok

### Error

Status: Default

ONTAP Error Response codes

| Error code | Description            |
|------------|------------------------|
| 68812802   | The UUID is not valid. |

| Error code | Description   |
|------------|---|
| 68812803   | Failed to get the SVM name from the specified SVM UUID.   |
| 68812804   | Failed to get the node name from the specified node UUID. |
| 68812805   | Failed to obtain the NDMP mode of operation.              |
| 68812806   | UUID and Session ID are required.                         |

| 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

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. |

## Retrieve NDMP session details

GET /protocols/ndmp/sessions/{owner.uuid}/{session.id}

**Introduced In:** 9.7

Retrieves the details of a specific NDMP session.

## Related ONTAP commands

- vserver services ndmp probe
- system services ndmp probe

## Learn more

- [DOC /protocols/ndmp/sessions](#)

## Parameters

| Name       | Type          | In    | Required | Description   |
|------------|---------------|-------|----------|---|
| owner.uuid | string        | path  | True     | The NDMP node or SVM UUID based on whether NDMP is operating in node-scope or SVM-scope mode. |
| session.id | string        | path  | True     | NDMP session identifier   |
| fields     | array[string] | query | False    | Specify the fields to return.   |

## Response

Status: 200, Ok

| Name           | Type                       | Description                                |
|----------------|----------------------------|--|
| _links         | <a href="#">_links</a>     |  |
| backup_engine  | string                     | Indicates the NDMP backup engine.          |
| client_address | string                     | Indicates the NDMP client address.         |
| client_port    | integer                    | Indicates the NDMP client port.            |
| data           | <a href="#">ndmp_data</a>  | Information about the NDMP data server.    |
| data_path      | string                     | Indicates the NDMP backup or restore path. |
| id             | string                     | NDMP session identifier.                   |
| mover          | <a href="#">ndmp_mover</a> | Information about the NDMP mover.          |
| node           | <a href="#">node</a>       |  |
| scsi           | <a href="#">ndmp_scsi</a>  | Information about the NDMP SCSI server.    |

| Name           | Type                | Description   |
|----------------|---------------------|---|
| source_address | string              | Indicates the NDMP local address on which connection was established.                         |
| svm            | <a href="#">svm</a> | SVM, applies only to SVM-scoped objects.  |
| tape_device    | string              | Indicates the NDMP tape device.   |
| tape_mode      | string              | The modes of a NDMP mover instance.   |
| uuid           | string              | The NDMP node or SVM UUID based on whether NDMP is operating in node-scope or SVM-scope mode. |

## Example response

```
{  
  "_links": {  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "backup_engine": "string",  
  "client_address": "string",  
  "data": {  
    "bytes_processed": 5000,  
    "connection": {  
      "address": "string",  
      "port": 18600,  
      "type": "local"  
    },  
    "operation": "backup",  
    "reason": "aborted",  
    "state": "halted"  
  },  
  "data_path": "/vserver1/voll",  
  "id": "string",  
  "mover": {  
    "bytes_moved": 645120,  
    "connection": {  
      "address": "string",  
      "port": 18600,  
      "type": "local"  
    },  
    "mode": "read",  
    "reason": "end_of_media",  
    "state": "connected"  
  },  
  "node": {  
    "_links": {  
      "self": {  
        "href": "/api/resourcelink"  
      }  
    },  
    "name": "node1",  
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"  
  },  
  "scsi": {  
    "device_id": "string"  
  },  
}
```

```

"source_address": "string",
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svml",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"tape_device": "nrst0a",
"tape_mode": "write",
"uuid": "string"
}

```

## Error

Status: Default

ONTAP Error Response codes

| Error code | Description            |
|------------|------------------------|
| 68812802   | The UUID is not valid. |

| 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 |             |

ndmp\_connect

Indicates the NDMP connection attributes.

| Name    | Type    | Description                                 |
|---------|---------|---|
| address | string  | Indicates the NDMP data connection address. |
| port    | integer | Indicates the NDMP data connection port.    |
| type    | string  | The different NDMP connection types.        |

ndmp\_data

Information about the NDMP data server.

| Name            | Type         | Description  |
|-----------------|--------------|--|
| bytes_processed | integer      | Indicates the NDMP data bytes processed.   |
| connection      | ndmp_connect | Indicates the NDMP connection attributes.  |
| operation       | string       | Indicates the NDMP data server operation.  |
| reason          | string       | If the NDMP mover or data server is in the paused or halted state, then this property provides additional information for the state. |

| Name  | Type   | Description   |
|-------|--------|---|
| state | string | The various states of the NDMP state machine during a backup or restore workflow. |

## ndmp\_mover

Information about the NDMP mover.

| Name        | Type                         | Description  |
|-------------|------------------------------|--|
| bytes_moved | integer                      | Indicates the NDMP mover bytes moved.  |
| connection  | <a href="#">ndmp_connect</a> | Indicates the NDMP connection attributes.  |
| mode        | string                       | The modes of a NDMP mover instance.  |
| reason      | string                       | If the NDMP mover or data server is in the paused or halted state, then this property provides additional information for the state. |
| state       | string                       | The various states of the NDMP state machine during a backup or restore workflow.  |

## node

| Name   | Type                   | Description |
|--------|------------------------|-------------|
| _links | <a href="#">_links</a> |             |
| name   | string                 |             |
| uuid   | string                 |             |

## ndmp\_scsi

Information about the NDMP SCSI server.

| Name      | Type   | Description                        |
|-----------|--------|------------------------------------|
| device_id | string | Indicates the NDMP SCSI device ID. |

| Name         | Type    | Description                           |
|--------------|---------|---------------------------------------|
| host_adapter | integer | Indicates the NDMP SCSI host adapter. |
| lun_id       | integer | Indicates the NDMP SCSI LUN ID.       |
| target_id    | integer | Indicates the NDMP SCSI target ID.    |

## 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. |

## 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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