



# **Manage NVMe subsystem maps**

## REST API reference

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# Manage NVMe subsystem maps

## Protocols NVMe subsystem-maps endpoint overview

### Overview

An NVMe subsystem map is an association of an NVMe namespace with an NVMe subsystem. When an NVMe namespace is mapped to an NVMe subsystem, the NVMe subsystem's hosts are granted access to the NVMe namespace. The relationship between an NVMe subsystem and an NVMe namespace is one subsystem to many namespaces.

The NVMe subsystem map REST API allows you to create, delete and discover NVMe subsystem maps.

### Examples

#### Creating an NVMe subsystem map

```
# The API:
POST /api/protocols/nvme/subsystem-maps

# The call:
curl -X POST 'https://<mgmt-ip>/api/protocols/nvme/subsystem-maps' -H
'Accept: application/hal+json' -d '{ "svm": { "name": "svm1" },
"subsystem": { "name": "subsystem1" }, "namespace": { "name":
"/vol/vol1/namespace1" } }'
```

#### Retrieving all of the NVMe subsystem maps

```
# The API:
GET /api/protocols/nvme/subsystem-maps

# The call:
curl -X GET 'https://<mgmt-ip>/api/protocols/nvme/subsystem-maps' -H
'Accept: application/hal+json'

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "0e91b214-fe40-11e8-91a0-005056a79967",
        "name": "svm1",
        "_links": {
          "self": {
```

```

        "href": "/api/svm/svms/0e91b214-fe40-11e8-91a0-005056a79967"
    }
}
},
"subsystem": {
    "uuid": "580a6b1e-fe43-11e8-91a0-005056a79967",
    "name": "subsystem1",
    "_links": {
        "self": {
            "href": "/api/protocols/nvme/subsystems/580a6b1e-fe43-11e8-91a0-005056a79967"
        }
    }
},
"namespace": {
    "uuid": "3ccdedc6-2519-4206-bc1f-b0f4adab6f89",
    "name": "/vol/vol1/namespace1",
    "_links": {
        "self": {
            "href": "/api/storage/namespaces/3ccdedc6-2519-4206-bc1f-b0f4adab6f89"
        }
    }
},
"_links": {
    "self": {
        "href": "/api/protocols/nvme/subsystem-maps/580a6b1e-fe43-11e8-91a0-005056a79967/3ccdedc6-2519-4206-bc1f-b0f4adab6f89"
    }
}
},
"num_records": 1,
"_links": {
    "self": {
        "href": "/api/protocols/nvme/subsystem-maps"
    }
}
}
}

```

## Retrieving a specific NVMe subsystem map

The NVMe subsystem map is identified by the UUID of the NVMe subsystem followed by the UUID of the NVMe namespace.

```

# The API:
GET /api/protocols/nvme/subsystem-maps/{subsystem.uuid}/{namespace.uuid}

# The call:
curl -X GET 'https://<mgmt-ip>/api/protocols/nvme/subsystem-maps/580a6b1e-
fe43-11e8-91a0-005056a79967/3ccdedc6-2519-4206-bc1f-b0f4adab6f89' -H
'Accept: application/hal+json'

# The response:
{
  "svm": {
    "uuid": "0e91b214-fe40-11e8-91a0-005056a79967",
    "name": "svm1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/0e91b214-fe40-11e8-91a0-005056a79967"
      }
    }
  },
  "subsystem": {
    "uuid": "580a6b1e-fe43-11e8-91a0-005056a79967",
    "name": "subsystem1",
    "_links": {
      "self": {
        "href": "/api/protocols/nvme/subsystems/580a6b1e-fe43-11e8-91a0-
005056a79967"
      }
    }
  },
  "namespace": {
    "uuid": "3ccdedc6-2519-4206-bc1f-b0f4adab6f89",
    "name": "/vol/vol1/namespacel",
    "node": {
      "name": "node1",
      "uuid": "012b4508-67d6-4788-8c2d-801f254ce976",
      "_links": {
        "self": {
          "href": "/api/cluster/nodes/012b4508-67d6-4788-8c2d-801f254ce976"
        }
      }
    }
  },
  "_links": {
    "self": {
      "href": "/api/storage/namespaces/3ccdedc6-2519-4206-bc1f-
b0f4adab6f89"
    }
  }
}

```

```

    }
  },
  "nsid": "00000001h",
  "_links": {
    "self": {
      "href": "/api/protocols/nvme/subsystem-maps/580a6b1e-fe43-11e8-91a0-005056a79967/3ccdedc6-2519-4206-bc1f-b0f4adab6f89"
    }
  }
}
}

```

### Deleting an NVMe subsystem map

```

# The API:
DELETE /api/protocols/nvme/subsystem-
maps/{subsystem.uuid}/{namespace.uuid}

# The call:
curl -X DELETE 'https://<mgmt-ip>/api/protocols/nvme/subsystem-
maps/580a6b1e-fe43-11e8-91a0-005056a79967/3ccdedc6-2519-4206-bc1f-
b0f4adab6f89' -H 'Accept: application/hal+json'

```

## Retrieve NVMe subsystem maps

GET /protocols/nvme/subsystem-maps

**Introduced In:** 9.6

Retrieves NVMe subsystem maps.

### Expensive properties

There is an added computational cost to retrieving values for these properties. They are not included by default in GET results and must be explicitly requested using the `fields` query parameter. See [Requesting specific fields](#) to learn more.

- `anagrpId`

### Related ONTAP commands

- `vserver nvme subsystem map show`

### Learn more

- [DOC /protocols/nvme/subsystem-maps](#)

## Parameters

| Name                | Type          | In    | Required | Description                                                                                                                                                        |
|---------------------|---------------|-------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| svm.name            | string        | query | False    | Filter by svm.name                                                                                                                                                 |
| svm.uuid            | string        | query | False    | Filter by svm.uuid                                                                                                                                                 |
| subsystem.name      | string        | query | False    | Filter by subsystem.name <ul style="list-style-type: none"> <li>• maxLength: 64</li> <li>• minLength: 1</li> </ul>                                                 |
| subsystem.uuid      | string        | query | False    | Filter by subsystem.uuid                                                                                                                                           |
| nsid                | string        | query | False    | Filter by nsid                                                                                                                                                     |
| namespace.uuid      | string        | query | False    | Filter by namespace.uuid                                                                                                                                           |
| namespace.node.uuid | string        | query | False    | Filter by namespace.node.uuid                                                                                                                                      |
| namespace.node.name | string        | query | False    | Filter by namespace.node.name                                                                                                                                      |
| namespace.name      | string        | query | False    | Filter by namespace.name                                                                                                                                           |
| anagrpId            | string        | query | False    | Filter by anagrpId                                                                                                                                                 |
| 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                                     | The number of records in the response. |
| records     | array[ <a href="#">nvme_subsystem_map</a> ] |                                        |

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "anagrp_id": "00103050h",
      "namespace": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "/vol/vol1/namespace1",
        "node": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "node1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        },
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "nsid": "00000001h",
      "subsystem": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "subsystem1",
```

```

        "uuid": "1cd8a442-86d1-11e0-aec-123478563412"
      },
      "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> |             |

node

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

namespace

The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both.

| Name   | Type                   | Description                                                                                                                                                                                                                                                                                                            |
|--------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _links | <a href="#">_links</a> |                                                                                                                                                                                                                                                                                                                        |
| name   | string                 | <p>The name of the NVMe namespace. Valid in POST. An NVMe namespace is located within a volume. Optionally, it can be located within a qtree in a volume.</p> <p>NVMe namespace names are paths of the form <code>"/vol/&lt;volume&gt;[/&lt;qtree&gt;]/&lt;namespace&gt;"</code> where the qtree name is optional.</p> |
| node   | <a href="#">node</a>   |                                                                                                                                                                                                                                                                                                                        |

| Name | Type   | Description                                                 |
|------|--------|-------------------------------------------------------------|
| uuid | string | The unique identifier of the NVMe namespace. Valid in POST. |

#### subsystem

The NVMe subsystem to which the NVMe namespace is mapped. Required in POST by supplying either `subsystem.uuid`, `subsystem.name` or both.

| Name                   | Type                   | Description                                  |
|------------------------|------------------------|----------------------------------------------|
| <a href="#">_links</a> | <a href="#">_links</a> |                                              |
| name                   | string                 | The name of the NVMe subsystem.              |
| uuid                   | string                 | The unique identifier of the NVMe subsystem. |

#### svm

SVM, applies only to SVM-scoped objects.

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

#### nvme\_subsystem\_map

An NVMe subsystem map is an association of an NVMe namespace with an NVMe subsystem. When an NVMe namespace is mapped to an NVMe subsystem, the NVMe subsystem's hosts are granted access to the NVMe namespace. The relationship between an NVMe subsystem and an NVMe namespace is one subsystem to many namespaces.

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

| Name      | Type                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| anagrpId  | string                    | <p>The Asymmetric Namespace Access Group ID (ANAGRPID) of the NVMe namespace.</p> <p>The format for an ANAGRPID is 8 hexadecimal digits (zero-filled) followed by a lower case "h".</p> <p>There is an added computational cost to retrieving this property's value. It is not populated for a GET request unless it is explicitly requested using the <code>fields</code> query parameter. See <a href="#">Requesting specific fields</a> to learn more.</p> |
| namespace | <a href="#">namespace</a> | The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both.                                                                                                                                                                                                                                                                                                                                       |
| nsid      | string                    | <p>The NVMe namespace identifier. This is an identifier used by an NVMe controller to provide access to the NVMe namespace.</p> <p>The format for an NVMe namespace identifier is 8 hexadecimal digits (zero-filled) followed by a lower case "h".</p>                                                                                                                                                                                                        |
| subsystem | <a href="#">subsystem</a> | The NVMe subsystem to which the NVMe namespace is mapped. Required in POST by supplying either <code>subsystem.uuid</code> , <code>subsystem.name</code> or both.                                                                                                                                                                                                                                                                                             |
| 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                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

## Create an NVMe subsystem map

POST `/protocols/nvme/subsystem-maps`

**Introduced In:** 9.6

Creates an NVMe subsystem map.

### Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create the NVMe subsystem map.
- `namespace.uuid` or `namespace.name` - Existing NVMe namespace to map to the specified NVme subsystem.
- `subsystem.uuid` or `subsystem.name` - Existing NVMe subsystem to map to the specified NVMe namespace.

### Related ONTAP commands

- `vserver nvme subsystem map add`

### Learn more

- [DOC /protocols/nvme/subsystem-maps](#)

### Parameters

| Name           | Type    | In    | Required | Description                                                                                                                      |
|----------------|---------|-------|----------|----------------------------------------------------------------------------------------------------------------------------------|
| return_records | boolean | query | False    | The default is false. If set to true, the records are returned. <ul style="list-style-type: none"><li>• Default value:</li></ul> |

## Request Body

| Name      | Type                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| anagrpId  | string                    | <p>The Asymmetric Namespace Access Group ID (ANAGRPID) of the NVMe namespace.</p> <p>The format for an ANAGRPID is 8 hexadecimal digits (zero-filled) followed by a lower case "h".</p> <p>There is an added computational cost to retrieving this property's value. It is not populated for a GET request unless it is explicitly requested using the <code>fields</code> query parameter. See <a href="#">Requesting specific fields</a> to learn more.</p> |
| namespace | <a href="#">namespace</a> | <p>The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both.</p>                                                                                                                                                                                                                                                                                                                                |
| nsid      | string                    | <p>The NVMe namespace identifier. This is an identifier used by an NVMe controller to provide access to the NVMe namespace.</p> <p>The format for an NVMe namespace identifier is 8 hexadecimal digits (zero-filled) followed by a lower case "h".</p>                                                                                                                                                                                                        |
| subsystem | <a href="#">subsystem</a> | <p>The NVMe subsystem to which the NVMe namespace is mapped. Required in POST by supplying either <code>subsystem.uuid</code>, <code>subsystem.name</code> or both.</p>                                                                                                                                                                                                                                                                                       |
| svm       | <a href="#">svm</a>       | <p>SVM, applies only to SVM-scoped objects.</p>                                                                                                                                                                                                                                                                                                                                                                                                               |

## Example request

```
{
  "anagrpId": "00103050h",
  "namespace": {
    "name": "/vol/vol1/namespace1",
    "node": {
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "nsid": "00000001h",
  "subsystem": {
    "name": "subsystem1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

## Response

Status: 201, Created

| Name        | Type                      | Description                            |
|-------------|---------------------------|----------------------------------------|
| num_records | integer                   | The number of records in the response. |
| records     | array[nvme_subsystem_map] |                                        |

## Example response

```
{
  "num_records": 1,
  "records": [
    {
      "anagrp_id": "00103050h",
      "namespace": {
        "name": "/vol/vol1/namespace1",
        "node": {
          "name": "node1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        },
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "nsid": "00000001h",
      "subsystem": {
        "name": "subsystem1",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "svm": {
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

## Headers

| Name     | Description                               | Type   |
|----------|-------------------------------------------|--------|
| Location | Useful for tracking the resource location | string |

## Error

Status: Default

## ONTAP Error Response Codes

| Error Code | Description                              |
|------------|------------------------------------------|
| 5374127    | The specified namespace name is invalid. |

| Error Code | Description                                                                                                       |
|------------|-------------------------------------------------------------------------------------------------------------------|
| 5376461    | The specified namespace name is invalid.                                                                          |
| 5376462    | The specified namespace name is too long.                                                                         |
| 72089731   | The specified NVMe namespace does not exist.                                                                      |
| 72089790   | The supplied NVMe namespace is already mapped to the supplied NVMe subsystem.                                     |
| 72089793   | An NVMe namespace in a snapshot cannot be mapped.                                                                 |
| 72089799   | The NVMe namespace is the destination of an ongoing restore operation and is inaccessible for I/O and management. |
| 72089902   | A node does not have an NVMe interface configured.                                                                |
| 72089903   | Multiple nodes do not have an NVMe interface configured.                                                          |
| 72089904   | The aggregate must be given back to its home node prior to mapping the NVMe namespace it contains.                |
| 72090001   | The NVMe subsystem specified by <code>subsystem.uuid</code> was not found.                                        |
| 72090005   | The specified <code>namespace.uuid</code> and <code>namespace.name</code> refer to different NVMe namespaces.     |
| 72090006   | The NVMe namespace specified by <code>namespace.uuid</code> was not found.                                        |
| 72090007   | The NVMe namespace specified by <code>namespace.name</code> was not found.                                        |
| 72090020   | The specified <code>subsystem.uuid</code> and <code>subsystem.name</code> refer to different NVMe subsystems.     |
| 72090021   | The NVMe subsystem specified by <code>subsystem.name</code> was not found.                                        |

Also see the table of common errors in the [Response body](#) overview section of this documentation.

## Definitions

## See Definitions

href

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

\_links

node

| Name | Type   | Description |
|------|--------|-------------|
| name | string |             |
| uuid | string |             |

namespace

The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both.

| Name | Type                 | Description                                                                                                                                                                                                                                                                                                            |
|------|----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| name | string               | <p>The name of the NVMe namespace. Valid in POST. An NVMe namespace is located within a volume. Optionally, it can be located within a qtree in a volume.</p> <p>NVMe namespace names are paths of the form <code>"/vol/&lt;volume&gt;[/&lt;qtree&gt;]/&lt;namespace&gt;"</code> where the qtree name is optional.</p> |
| node | <a href="#">node</a> |                                                                                                                                                                                                                                                                                                                        |
| uuid | string               | The unique identifier of the NVMe namespace. Valid in POST.                                                                                                                                                                                                                                                            |

subsystem

The NVMe subsystem to which the NVMe namespace is mapped. Required in POST by supplying either `subsystem.uuid`, `subsystem.name` or both.

| Name | Type   | Description                     |
|------|--------|---------------------------------|
| name | string | The name of the NVMe subsystem. |

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

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. |

nvme\_subsystem\_map

An NVMe subsystem map is an association of an NVMe namespace with an NVMe subsystem. When an NVMe namespace is mapped to an NVMe subsystem, the NVMe subsystem's hosts are granted access to the NVMe namespace. The relationship between an NVMe subsystem and an NVMe namespace is one subsystem to many namespaces.

| Name      | Type                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| anagrpId  | string                    | <p>The Asymmetric Namespace Access Group ID (ANAGRPID) of the NVMe namespace.</p> <p>The format for an ANAGRPID is 8 hexadecimal digits (zero-filled) followed by a lower case "h".</p> <p>There is an added computational cost to retrieving this property's value. It is not populated for a GET request unless it is explicitly requested using the <code>fields</code> query parameter. See <a href="#">Requesting specific fields</a> to learn more.</p> |
| namespace | <a href="#">namespace</a> | The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both.                                                                                                                                                                                                                                                                                                                                       |

| Name      | Type                      | Description                                                                                                                                                                                                                                     |
|-----------|---------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| nsid      | string                    | The NVMe namespace identifier. This is an identifier used by an NVMe controller to provide access to the NVMe namespace.<br><br>The format for an NVMe namespace identifier is 8 hexadecimal digits (zero-filled) followed by a lower case "h". |
| subsystem | <a href="#">subsystem</a> | The NVMe subsystem to which the NVMe namespace is mapped. Required in POST by supplying either <code>subsystem.uuid</code> , <code>subsystem.name</code> or both.                                                                               |
| 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                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

## Delete an NVMe subsystem map

DELETE /protocols/nvme/subsystem-maps/{subsystem.uuid}/{namespace.uuid}

Introduced In: 9.6

Deletes an NVMe subsystem map.

## Related ONTAP commands

- `vserver nvme subsystem map remove`

## Learn more

- [DOC /protocols/nvme/subsystem-maps](#)

## Parameters

| Name           | Type   | In   | Required | Description                                  |
|----------------|--------|------|----------|----------------------------------------------|
| subsystem.uuid | string | path | True     | The unique identifier of the NVMe subsystem. |
| namespace.uuid | string | path | True     | The unique identifier of the NVMe namespace. |

## Response

Status: 200, Ok

| Name        | Type                                        | Description                            |
|-------------|---------------------------------------------|----------------------------------------|
| _links      | <a href="#">_links</a>                      |                                        |
| num_records | integer                                     | The number of records in the response. |
| records     | array[ <a href="#">nvme_subsystem_map</a> ] |                                        |

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "anagrp_id": "00103050h",
      "namespace": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "/vol/vol1/namespace1",
        "node": {
          "_links": {
            "self": {
              "href": "/api/resourcelink"
            }
          },
          "name": "node1",
          "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
        },
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "nsid": "00000001h",
      "subsystem": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "subsystem1",
```

```

    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
]
}

```

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description                                                                 |
|------------|-----------------------------------------------------------------------------|
| 72090019   | The specified NVMe namespace is not mapped to the specified NVMe subsystem. |

Also see the table of common errors in the [Response body](#) overview section of this documentation.

| 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> |             |

node

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

namespace

The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both.

| Name   | Type                   | Description                                                                                                                                                                                                                                                                                                            |
|--------|------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _links | <a href="#">_links</a> |                                                                                                                                                                                                                                                                                                                        |
| name   | string                 | <p>The name of the NVMe namespace. Valid in POST. An NVMe namespace is located within a volume. Optionally, it can be located within a qtree in a volume.</p> <p>NVMe namespace names are paths of the form <code>"/vol/&lt;volume&gt;[/&lt;qtree&gt;]/&lt;namespace&gt;"</code> where the qtree name is optional.</p> |
| node   | <a href="#">node</a>   |                                                                                                                                                                                                                                                                                                                        |

| Name | Type   | Description                                                 |
|------|--------|-------------------------------------------------------------|
| uuid | string | The unique identifier of the NVMe namespace. Valid in POST. |

#### subsystem

The NVMe subsystem to which the NVMe namespace is mapped. Required in POST by supplying either `subsystem.uuid`, `subsystem.name` or both.

| Name                   | Type                   | Description                                  |
|------------------------|------------------------|----------------------------------------------|
| <a href="#">_links</a> | <a href="#">_links</a> |                                              |
| name                   | string                 | The name of the NVMe subsystem.              |
| uuid                   | string                 | The unique identifier of the NVMe subsystem. |

#### svm

SVM, applies only to SVM-scoped objects.

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

#### nvme\_subsystem\_map

An NVMe subsystem map is an association of an NVMe namespace with an NVMe subsystem. When an NVMe namespace is mapped to an NVMe subsystem, the NVMe subsystem's hosts are granted access to the NVMe namespace. The relationship between an NVMe subsystem and an NVMe namespace is one subsystem to many namespaces.

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

| Name      | Type                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| anagrpId  | string                    | <p>The Asymmetric Namespace Access Group ID (ANAGRPID) of the NVMe namespace.</p> <p>The format for an ANAGRPID is 8 hexadecimal digits (zero-filled) followed by a lower case "h".</p> <p>There is an added computational cost to retrieving this property's value. It is not populated for a GET request unless it is explicitly requested using the <code>fields</code> query parameter. See <a href="#">Requesting specific fields</a> to learn more.</p> |
| namespace | <a href="#">namespace</a> | The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both.                                                                                                                                                                                                                                                                                                                                       |
| nsid      | string                    | <p>The NVMe namespace identifier. This is an identifier used by an NVMe controller to provide access to the NVMe namespace.</p> <p>The format for an NVMe namespace identifier is 8 hexadecimal digits (zero-filled) followed by a lower case "h".</p>                                                                                                                                                                                                        |
| subsystem | <a href="#">subsystem</a> | The NVMe subsystem to which the NVMe namespace is mapped. Required in POST by supplying either <code>subsystem.uuid</code> , <code>subsystem.name</code> or both.                                                                                                                                                                                                                                                                                             |
| 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                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

## Retrieve an NVMe subsystem map

GET /protocols/nvme/subsystem-maps/{subsystem.uuid}/{namespace.uuid}

**Introduced In:** 9.6

Retrieves an NVMe subsystem map.

### Expensive properties

There is an added computational cost to retrieving values for these properties. They are not included by default in GET results and must be explicitly requested using the `fields` query parameter. See [Requesting specific fields](#) to learn more.

- `anagrpid`

### Related ONTAP commands

- `vserver nvme subsystem map show`

### Learn more

- [DOC /protocols/nvme/subsystem-maps](#)

### Parameters

| Name           | Type   | In   | Required | Description                                  |
|----------------|--------|------|----------|----------------------------------------------|
| subsystem.uuid | string | path | True     | The unique identifier of the NVMe subsystem. |
| namespace.uuid | string | path | True     | The unique identifier of the NVMe namespace. |

| Name   | Type          | In    | Required | Description                   |
|--------|---------------|-------|----------|-------------------------------|
| fields | array[string] | query | False    | Specify the fields to return. |

## Response

Status: 200, Ok

| Name      | Type                      | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
|-----------|---------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _links    | <a href="#">_links</a>    |                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| anagrpId  | string                    | <p>The Asymmetric Namespace Access Group ID (ANAGRPID) of the NVMe namespace.</p> <p>The format for an ANAGRPID is 8 hexadecimal digits (zero-filled) followed by a lower case "h".</p> <p>There is an added computational cost to retrieving this property's value. It is not populated for a GET request unless it is explicitly requested using the <code>fields</code> query parameter. See <a href="#">Requesting specific fields</a> to learn more.</p> |
| namespace | <a href="#">namespace</a> | The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both.                                                                                                                                                                                                                                                                                                                                       |
| nsid      | string                    | <p>The NVMe namespace identifier. This is an identifier used by an NVMe controller to provide access to the NVMe namespace.</p> <p>The format for an NVMe namespace identifier is 8 hexadecimal digits (zero-filled) followed by a lower case "h".</p>                                                                                                                                                                                                        |
| subsystem | <a href="#">subsystem</a> | The NVMe subsystem to which the NVMe namespace is mapped. Required in POST by supplying either <code>subsystem.uuid</code> , <code>subsystem.name</code> or both.                                                                                                                                                                                                                                                                                             |

| Name | Type                | Description                              |
|------|---------------------|------------------------------------------|
| svm  | <a href="#">svm</a> | SVM, applies only to SVM-scoped objects. |

**Example response**

```

{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "anagrpId": "00103050h",
  "namespace": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "/vol/vol1/namespace1",
    "node": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "node1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "nsid": "00000001h",
  "subsystem": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "subsystem1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}

```

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description                                                                 |
|------------|-----------------------------------------------------------------------------|
| 72090019   | The specified NVMe namespace is not mapped to the specified NVMe subsystem. |

Also see the table of common errors in the [Response body](#) overview section of this documentation.

| 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> |             |

node

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

namespace

The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both.

| Name   | Type                   | Description                                                                                                                                                                                                                                                                                                     |
|--------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| _links | <a href="#">_links</a> |                                                                                                                                                                                                                                                                                                                 |
| name   | string                 | The name of the NVMe namespace. Valid in POST. An NVMe namespace is located within a volume. Optionally, it can be located within a qtree in a volume.<br><br>NVMe namespace names are paths of the form <code>"/vol/&lt;volume&gt;[/&lt;qtree&gt;]/&lt;namespace&gt;"</code> where the qtree name is optional. |
| node   | <a href="#">node</a>   |                                                                                                                                                                                                                                                                                                                 |
| uuid   | string                 | The unique identifier of the NVMe namespace. Valid in POST.                                                                                                                                                                                                                                                     |

subsystem

The NVMe subsystem to which the NVMe namespace is mapped. Required in POST by supplying either `subsystem.uuid`, `subsystem.name` or both.

| Name   | Type                   | Description                                  |
|--------|------------------------|----------------------------------------------|
| _links | <a href="#">_links</a> |                                              |
| name   | string                 | The name of the NVMe subsystem.              |
| uuid   | string                 | The unique identifier of the NVMe subsystem. |

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[ <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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