



Manage NVMe subsystem maps

ONTAP 9.6 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

Retrieves NVMe subsystem maps.

Expensive properties

There is an added 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 [DOC 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.uuid | string | query | False | Filter by svm.uuid |
| svm.name | string | query | False | Filter by svm.name |
| nsid | string | query | False | Filter by nsid |
| anagrpid | string | query | False | Filter by anagrpid |
| subsystem.name | string | query | False | Filter by subsystem.name |
| subsystem.uuid | string | query | False | Filter by subsystem.uuid |
| namespace.node.name | string | query | False | Filter by namespace.node.name |
| namespace.node.uuid | string | query | False | Filter by namespace.node.uuid |
| namespace.name | string | query | False | Filter by namespace.name |
| namespace.uuid | string | query | False | Filter by namespace.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 | The default is true for GET calls. When set to false, only the number of records is returned. |

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| return_timeout | integer | query | False | 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. |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|---|--------------------|
| _links | _links | |
| num_records | integer | Number of records. |
| records | array[nvme_subsystem_map] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "anagrpId": "00103050h",
    "namespace": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "/vol/vol1/namespacel",
      "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"
        }
      },
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "svm": {
```

```
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
}
}
```

Error

Status: Default, Error

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

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

_links

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

_links

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

node

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| 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 | _links | |
| name | string | The fully qualified path name of the NVMe namespace composed from the volume name, qtree name, and file name of the NVMe namespace. Valid in POST. |
| node | node | |
| uuid | string | The unique identifier of the NVMe namespace. Valid in POST. |

subsystem

An NVMe subsystem maintains configuration state and NVMe namespace access control for a set of

NVMe-connected hosts.

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

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 |
|------------------------|------------------------|--|
| _links | _links | |
| 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 cost to retrieving this property's value. It is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter. See DOC Requesting specific fields to learn more.</p> |

| Name | Type | Description |
|-----------|---------------------------|---|
| namespace | namespace | The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both. |
| nsid | string | The NVMe namespace identifier. This is an identifier used by an NVMe controller to provide access to the NVMe namespace. The format for an NVMe namespace identifier is 8 hexadecimal digits (zero-filled) followed by a lower case "h". |
| subsystem | subsystem | An NVMe subsystem maintains configuration state and NVMe namespace access control for a set of NVMe-connected hosts. |
| svm | svm | SVM, applies only to SVM-scoped objects. |

error_arguments

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

error

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

Create an NVMe subsystem map

POST /protocols/nvme/subsystem-maps

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 create`

Learn more

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

Request Body

| Name | Type | Description |
|------------------------|------------------------|--|
| <code>_links</code> | <code>_links</code> | |
| <code>anagrpId</code> | 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 cost to retrieving this property's value. It is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter. See DOC Requesting specific fields to learn more.</p> |
| <code>namespace</code> | <code>namespace</code> | <p>The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both.</p> |

| Name | Type | Description |
|-----------|-----------|--|
| 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 | subsystem | An NVMe subsystem maintains configuration state and NVMe namespace access control for a set of NVMe-connected hosts. |
| svm | svm | SVM, applies only to SVM-scoped objects. |

Example request

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an example request.


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

Response

Status: 201, Created

| Name | Type | Description |
|-------------|---|--------------------|
| _links | _links | |
| num_records | integer | Number of records. |
| records | array[nvme_subsystem_map] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "anagrpId": "00103050h",
    "namespace": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "/vol/vol1/namespacel",
      "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"
        }
      },
      "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 |
|------------|---|
| 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. |
| 72090005 | The specified <code>namespace.uuid</code> and <code>namespace.name</code> refer to different NVMe namespaces. |
| 72090001 | The NVMe subsystem specified by <code>subsystem.uuid</code> was not found. |
| 72090021 | The NVMe subsystem specified by <code>subsystem.name</code> was not found. |
| 72090020 | The specified <code>subsystem.uuid</code> and <code>subsystem.name</code> refer to different NVMe subsystems. |
| 72089790 | The supplied NVMe namespace is already mapped to the supplied NVMe subsystem. |
| 72089793 | An NVMe namespace in a Snapshot copy 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. |

| Error Code | Description |
|------------|--|
| 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. |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

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

_links

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

node

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| 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 | _links | |
| name | string | The fully qualified path name of the NVMe namespace composed from the volume name, qtree name, and file name of the NVMe namespace. Valid in POST. |
| node | node | |
| uuid | string | The unique identifier of the NVMe namespace. Valid in POST. |

subsystem

An NVMe subsystem maintains configuration state and NVMe namespace access control for a set of NVMe-connected hosts.

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

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

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 |
|------------------------|------------------------|--|
| _links | _links | |
| 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 cost to retrieving this property's value. It is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter. See DOC Requesting specific fields to learn more.</p> |

| Name | Type | Description |
|-----------|---------------------------|---|
| namespace | namespace | The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both. |
| nsid | string | The NVMe namespace identifier. This is an identifier used by an NVMe controller to provide access to the NVMe namespace. The format for an NVMe namespace identifier is 8 hexadecimal digits (zero-filled) followed by a lower case "h". |
| subsystem | subsystem | An NVMe subsystem maintains configuration state and NVMe namespace access control for a set of NVMe-connected hosts. |
| svm | svm | SVM, applies only to SVM-scoped objects. |

_links

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

error_arguments

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

error

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

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

Delete an NVMe subsystem map

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

Deletes an NVMe subsystem map.

Related ONTAP commands

- `vserver nvme subsystem map delete`

Learn more

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

Parameters

| Name | Type | In | Required | Description |
|----------------|--------|------|----------|-------------|
| subsystem.uuid | string | path | True | |
| namespace.uuid | string | path | True | |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|---|--------------------|
| _links | _links | |
| num_records | integer | Number of records. |
| records | array[nvme_subsystem_map] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "anagrpId": "00103050h",
    "namespace": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "/vol/vol1/namespacel",
      "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"
        }
      },
      "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. |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

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

_links

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

_links

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

node

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| 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 | _links | |
| name | string | The fully qualified path name of the NVMe namespace composed from the volume name, qtree name, and file name of the NVMe namespace. Valid in POST. |
| node | node | |
| uuid | string | The unique identifier of the NVMe namespace. Valid in POST. |

subsystem

An NVMe subsystem maintains configuration state and NVMe namespace access control for a set of

NVMe-connected hosts.

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

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 |
|------------------------|------------------------|--|
| _links | _links | |
| 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 cost to retrieving this property's value. It is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter. See DOC Requesting specific fields to learn more.</p> |

| Name | Type | Description |
|-----------|---------------------------|---|
| namespace | namespace | The NVMe namespace to which the NVMe subsystem is mapped. Required in POST by supplying either the UUID, name, or both. |
| nsid | string | The NVMe namespace identifier. This is an identifier used by an NVMe controller to provide access to the NVMe namespace. The format for an NVMe namespace identifier is 8 hexadecimal digits (zero-filled) followed by a lower case "h". |
| subsystem | subsystem | An NVMe subsystem maintains configuration state and NVMe namespace access control for a set of NVMe-connected hosts. |
| svm | svm | SVM, applies only to SVM-scoped objects. |

error_arguments

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

error

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

Retrieve an NVMe subsystem map

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

Retrieves an NVMe subsystem map.

Expensive properties

There is an added 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 [DOC 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 |
|-----------------------------|---------------|-------|----------|--|
| <code>subsystem.uuid</code> | string | path | True | The unique identifier of the NVMe subsystem. |
| <code>namespace.uuid</code> | string | path | True | The unique identifier of the NVMe namespace. |
| <code>fields</code> | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|---------------------|------------------------|-------------|
| <code>_links</code> | _links | |

| 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 cost to retrieving this property's value. It is not populated for either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter. See DOC Requesting specific fields to learn more.</p> |
| namespace | namespace | <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 | subsystem | <p>An NVMe subsystem maintains configuration state and NVMe namespace access control for a set of NVMe-connected hosts.</p> |
| svm | svm | <p>SVM, applies only to SVM-scoped objects.</p> |

Example response

A large, empty rectangular box with a thin, dashed border, occupying most of the page. It is intended for an 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"
      }
    },
    "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. |

| Name | Type | Description |
|-------|-------|-------------|
| error | error | |

Example error

```
{
  "error": {
    "arguments": {
      "code": "string",
      "message": "string"
    },
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

href

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

_links

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

node

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |
| 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 | _links | |
| name | string | The fully qualified path name of the NVMe namespace composed from the volume name, qtree name, and file name of the NVMe namespace. Valid in POST. |
| node | node | |
| uuid | string | The unique identifier of the NVMe namespace. Valid in POST. |

subsystem

An NVMe subsystem maintains configuration state and NVMe namespace access control for a set of NVMe-connected hosts.

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

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

error_arguments

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

error

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

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