



# Manage NVMe subsystem maps

ONTAP 9.13.1 REST API reference

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April 02, 2024

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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/namespace1",
    "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
anagrpId	string	query	False	Filter by anagrpId
nsid	string	query	False	Filter by nsid
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
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
namespace.uuid	string	query	False	Filter by namespace.uuid
subsystem.uuid	string	query	False	Filter by subsystem.uuid
subsystem.name	string	query	False	Filter by subsystem.name <ul style="list-style-type: none"> <li>• maxLength: 96</li> <li>• minLength: 1</li> </ul>
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.
return_records	boolean	query	False	The default is true for GET calls. When set to false, only the number of records is returned. <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>

Name	Type	In	Required	Description
return_timeout	integer	query	False	<p>The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

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



## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "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"
        }
      },
      "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, Error

Name	Type	Description
error	<a href="#">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	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	<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

Name	Type	Description
_links	<a href="#">_links</a>	
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	<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 either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter. See <a href="#">Requesting specific fields</a> to learn more.</p>

Name	Type	Description
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	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	<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>	

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### 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 create`

## Learn more

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

## Parameters

Name	Type	In	Required	Description
<code>return_records</code>	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
<code>_links</code>	<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 either a collection GET or an instance GET 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>	

**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"
      }
    },
    "name": "subsystem1",
    "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
<a href="#">_links</a>	<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"
      }
    },
    "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"
        }
      },
      "name": "subsystem1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    }
  }
}
```

```

    },
    "svm": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "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
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.
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.

Error Code	Description
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.

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	<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 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	<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	Type	Description
name	string	The name of the NVMe subsystem.
uuid	string	The unique identifier of the NVMe subsystem.

svm

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
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
<a href="#">_links</a>	<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 either a collection GET or an instance GET 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.  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>	

#### \_links

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

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### 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 delete`

## 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
<a href="#">_links</a>	<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"
      }
    },
    "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"
        }
      },
      "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.

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	<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	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	<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

Name	Type	Description
_links	<a href="#">_links</a>	
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	<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 either a collection GET or an instance GET unless it is explicitly requested using the <code>fields</code> query parameter. See <a href="#">Requesting specific fields</a> to learn more.</p>

Name	Type	Description
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	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	<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>	

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### 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
<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>	<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 either a collection GET or an instance GET 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>	

**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/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"
      }
    },
    "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.

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	<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 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	<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	Type	Description
name	string	The name of the NVMe subsystem.
uuid	string	The unique identifier of the NVMe subsystem.

svm

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