



## **Manage SAN portsets**

ONTAP 9.14.1 REST API reference

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May 23, 2024

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# Manage SAN portsets

## Protocols SAN portsets endpoint overview

### Overview

A portset is a collection of Fibre Channel Protocol and/or iSCSI network interfaces from the portset's SVM.

Portsets are used to limit the network interfaces through which an initiator can connect to mapped LUNs. When a portset is bound to an initiator group (igroup), and the initiator group is mapped to a LUN, the initiators of the initiator group can only reach the LUN through the network interfaces in the portset.

Portsets are not recommended for new configurations. With modern releases of ONTAP, it is recommended to use multiple SVMs and initiator groups with no bound portset to load balance applications over multiple ports on a node. Selective LUN mapping will automatically limit the number of visible paths to a LUN from the client host to those required for efficient access and high availability. The REST portset API is primarily intended for legacy use.

The portset REST API allows you to create, delete, and discover portsets, and to add and remove network interfaces from portsets.

A portset can be bound to one or more initiator groups. An initiator group (igroup) can be bound to at most one portset.

When a portset is created, the `protocol` property is used to restrict member network interfaces to Fibre Channel Protocol (*fc*), iSCSI (*iscsi*), or both (*mixed*).

Zero or more network interfaces can be supplied when the portset is created. After creation, network interfaces can be added to or removed from the portset using the `/protocols/san/portsets/{portset.uuid}/interfaces` endpoint. See [DELETE /protocols/san/portsets/{portset.uuid}/interfaces/{name}](#) for more details.

### Examples

#### Creating a portset with no network interfaces

The example portset uses the default `mixed` protocol. Note that the `return_records` query parameter is used to obtain the newly created portset in the response.

```
# The API:
POST /api/protocols/san/portsets

# The call:
curl -X POST 'https://<mgmt-
ip>/api/protocols/san/portsets?return_records=true' -H 'Accept:
application/hal+json' -d '{ "svm" : { "name": "svm1" }, "name": "portset1"
}'

# The response:
{
  "num_records": 1,
  "records": [
    {
      "uuid": "5d7b1dfa-1ed7-11eb-8b0f-005056bb3521",
      "svm": {
        "uuid": "31484775-1e23-11eb-b2a8-005056bb3521",
        "name": "svm1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/31484775-1e23-11eb-b2a8-005056bb3521"
          }
        }
      },
      "name": "portset1",
      "protocol": "mixed",
      "_links": {
        "self": {
          "href": "/api/protocols/san/portsets/5d7b1dfa-1ed7-11eb-8b0f-
005056bb3521"
        }
      }
    }
  ]
}
```

---

### Creating an iSCSI portset with two network interfaces

Note that the `return_records` query parameter is used to obtain the newly created portset in the response.

```
# The API:
POST /api/protocols/san/portsets
```

```

# The call:
curl -X POST 'https://<mgmt-
ip>/api/protocols/san/portsets?return_records=true' -H 'Accept:
application/hal+json' -d '{ "svm" : { "name": "svm1" }, "name":
"portset2", "protocol": "iscsi", "interfaces": [ { "ip": { "name": "lif1"
} }, { "ip": { "name": "lif2" } } ] }'

# The response:
{
  "num_records": 1,
  "records": [
    {
      "uuid": "816c0d49-1ed7-11eb-8b0f-005056bb3521",
      "svm": {
        "uuid": "31484775-1e23-11eb-b2a8-005056bb3521",
        "name": "svm1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/31484775-1e23-11eb-b2a8-005056bb3521"
          }
        }
      },
      "name": "portset2",
      "protocol": "iscsi",
      "interfaces": [
        {
          "uuid": "f37bfb01-1e2a-11eb-b2a8-005056bb3521",
          "ip": {
            "uuid": "f37bfb01-1e2a-11eb-b2a8-005056bb3521",
            "name": "lif1",
            "ip": {
              "address": "192.168.1.100"
            },
            "_links": {
              "self": {
                "href": "/api/network/ip/interfaces/f37bfb01-1e2a-11eb-b2a8-
005056bb3521"
              }
            }
          },
          "_links": {
            "self": {
              "href": "/api/protocols/san/portsets/816c0d49-1ed7-11eb-8b0f-
005056bb3521/interfaces/f37bfb01-1e2a-11eb-b2a8-005056bb3521"
            }
          }
        }
      ]
    }
  ]
}

```

```

    },
    {
      "uuid": "f92178e7-1e2a-11eb-b2a8-005056bb3521",
      "ip": {
        "uuid": "f92178e7-1e2a-11eb-b2a8-005056bb3521",
        "name": "lif2",
        "ip": {
          "address": "192.168.1.101"
        },
        "_links": {
          "self": {
            "href": "/api/network/ip/interfaces/f92178e7-1e2a-11eb-b2a8-005056bb3521"
          }
        }
      },
      "_links": {
        "self": {
          "href": "/api/protocols/san/portsets/816c0d49-1ed7-11eb-8b0f-005056bb3521/interfaces/f92178e7-1e2a-11eb-b2a8-005056bb3521"
        }
      }
    }
  ],
  "_links": {
    "self": {
      "href": "/api/protocols/san/portsets/816c0d49-1ed7-11eb-8b0f-005056bb3521"
    }
  }
}
]
}

```

## Retrieving a summary of all portsets

```

# The API:
GET /api/protocols/san/portsets

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

# The response:

```

```

{
  "records": [
    {
      "uuid": "5d7b1dfa-1ed7-11eb-8b0f-005056bb3521",
      "name": "portset1",
      "_links": {
        "self": {
          "href": "/api/protocols/san/portsets/5d7b1dfa-1ed7-11eb-8b0f-005056bb3521"
        }
      }
    },
    {
      "uuid": "816c0d49-1ed7-11eb-8b0f-005056bb3521",
      "name": "portset2",
      "_links": {
        "self": {
          "href": "/api/protocols/san/portsets/816c0d49-1ed7-11eb-8b0f-005056bb3521"
        }
      }
    },
    {
      "uuid": "b716b4d2-1ed7-11eb-8b0f-005056bb3521",
      "name": "portset3",
      "_links": {
        "self": {
          "href": "/api/protocols/san/portsets/b716b4d2-1ed7-11eb-8b0f-005056bb3521"
        }
      }
    }
  ],
  "num_records": 3,
  "_links": {
    "self": {
      "href": "/api/protocols/san/portsets"
    }
  }
}

```

### Retrieving details for a specific portset

```
# The API:
```

```

GET /api/protocols/san/portsets/{uuid}

# The call:
curl -X GET 'https://<mgmt-ip>/api/protocols/san/portsets/b716b4d2-1ed7-11eb-8b0f-005056bb3521' -H 'Accept: application/hal+json'

# The response:
{
  "uuid": "b716b4d2-1ed7-11eb-8b0f-005056bb3521",
  "svm": {
    "uuid": "31484775-1e23-11eb-b2a8-005056bb3521",
    "name": "svml",
    "_links": {
      "self": {
        "href": "/api/svm/svms/31484775-1e23-11eb-b2a8-005056bb3521"
      }
    }
  },
  "name": "portset3",
  "protocol": "fcp",
  "interfaces": [
    {
      "uuid": "164eb052-1e2b-11eb-b2a8-005056bb3521",
      "fc": {
        "uuid": "164eb052-1e2b-11eb-b2a8-005056bb3521",
        "name": "lif5",
        "wwpn": "20:01:00:50:56:bb:35:21",
        "_links": {
          "self": {
            "href": "/api/network/fc/interfaces/164eb052-1e2b-11eb-b2a8-005056bb3521"
          }
        }
      },
      "_links": {
        "self": {
          "href": "/api/protocols/san/portsets/b716b4d2-1ed7-11eb-8b0f-005056bb3521/interfaces/164eb052-1e2b-11eb-b2a8-005056bb3521"
        }
      }
    },
    {
      "uuid": "197ba2b7-1e2b-11eb-b2a8-005056bb3521",
      "fc": {
        "uuid": "197ba2b7-1e2b-11eb-b2a8-005056bb3521",
        "name": "lif6",

```



```
    "wwpn": "20:02:00:50:56:bb:35:21",
    "_links": {
      "self": {
        "href": "/api/network/fc/interfaces/197ba2b7-1e2b-11eb-b2a8-005056bb3521"
      }
    },
    "_links": {
      "self": {
        "href": "/api/protocols/san/portsets/b716b4d2-1ed7-11eb-8b0f-005056bb3521/interfaces/197ba2b7-1e2b-11eb-b2a8-005056bb3521"
      }
    }
  ],
  "_links": {
    "self": {
      "href": "/api/protocols/san/portsets/b716b4d2-1ed7-11eb-8b0f-005056bb3521"
    }
  }
}
```

## Deleting a portset

```
# The API:
DELETE /api/protocols/san/portsets/{uuid}

# The call:
curl -X DELETE 'https://<mgmt-ip>/api/protocols/san/portsets/b716b4d2-1ed7-11eb-8b0f-005056bb3521' -H 'Accept: application/hal+json'
```

## Adding a network interface to a portset

```
# The API:
POST /api/protocols/san/portsets/{uuid}/interfaces

# The call:
curl -X POST 'https://<mgmt-ip>/api/protocols/san/portsets/5d7b1dfa-1ed7-11eb-8b0f-005056bb3521/interfaces' -H 'Accept: application/hal+json' -d '{
"fc": { "name": "lif4" } }'
}
```

### Adding multiple network interfaces to a portset in a single call

```
# The API:
POST /api/protocols/san/portsets/{uuid}/interfaces

# The call:
curl -X POST 'https://<mgmt-ip>/api/protocols/san/portsets/5d7b1dfa-1ed7-11eb-8b0f-005056bb3521/interfaces' -H 'Accept: application/hal+json' -d '{
"records": [ { "ip": { "name": "lif1" } }, { "ip": { "name": "lif2" } },
{ "fc": { "name": "lif5" } } ] }'
```

### Removing a network interface from a portset

```
# The API:
DELETE /api/protocols/san/portsets/{uuid}/interfaces/f92178e7-1e2a-11eb-b2a8-005056bb3521

# The call:
curl -X DELETE 'https://<mgmt-ip>/api/protocols/san/portsets/5d7b1dfa-1ed7-11eb-8b0f-005056bb3521/interfaces/f92178e7-1e2a-11eb-b2a8-005056bb3521' -H 'Accept: application/hal+json'
```

## Retrieve portsets

```
GET /protocols/san/portsets
```

**Introduced In:** 9.9

Retrieves portsets.

## Related ONTAP commands

- `lun portset show`

## Learn more

- [DOC /protocols/san/portsets](#)

## Parameters

Name	Type	In	Required	Description
uuid	string	query	False	Filter by uuid
igroups.uuid	string	query	False	Filter by igroups.uuid
igroups.name	string	query	False	Filter by igroups.name <ul style="list-style-type: none"><li>• maxLength: 96</li><li>• minLength: 1</li></ul>
protocol	string	query	False	Filter by protocol
interfaces.fc.uuid	string	query	False	Filter by interfaces.fc.uuid
interfaces.fc.wwpn	string	query	False	Filter by interfaces.fc.wwpn
interfaces.fc.name	string	query	False	Filter by interfaces.fc.name
interfaces.uuid	string	query	False	Filter by interfaces.uuid
interfaces.ip.uuid	string	query	False	Filter by interfaces.ip.uuid
interfaces.ip.ip.address	string	query	False	Filter by interfaces.ip.ip.address
interfaces.ip.name	string	query	False	Filter by interfaces.ip.name

Name	Type	In	Required	Description
name	string	query	False	Filter by name <ul style="list-style-type: none"> <li>• maxLength: 96</li> <li>• minLength: 1</li> </ul>
svm.uuid	string	query	False	Filter by svm.uuid
svm.name	string	query	False	Filter by svm.name
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>
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. <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="#">portset</a> ]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "igroups": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "igroup1",
      "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
    },
    "interfaces": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "fc": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "fc_lif1",
        "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
        "wwpn": "20:00:00:50:56:b4:13:a8"
      },
      "ip": {
        "_links": {
          "self": {

```

```

        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7"
    },
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
},
"name": "portset1",
"protocol": "fcp",
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
}

```

## 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>	

igroups

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the initiator group.
uuid	string	The unique identifier of the initiator group.

fc

An FC interface.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the FC interface.
uuid	string	The unique identifier of the FC interface.
wwpn	string	The WWPN of the FC interface.

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address

ip

A network interface. Either UUID or name may be supplied on input.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
ip	<a href="#">ip</a>	IP information
name	string	The name of the interface. If only the name is provided, the SVM scope must be provided by the object this object is embedded in.
uuid	string	The UUID that uniquely identifies the interface.

interfaces

A container for either a Fibre Channel network interface or an IP network interface. On POST `fc` and `ip` are mutually exclusive.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
fc	<a href="#">fc</a>	An FC interface.
ip	<a href="#">ip</a>	A network interface. Either UUID or name may be supplied on input.
uuid	string	The unique identifier of the network interface.

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.

Name	Type	Description
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

portset

Name	Type	Description
_links	<a href="#">_links</a>	
igroups	array[ <a href="#">igroups</a> ]	An array initiator groups to which the portset is bound.
interfaces	array[ <a href="#">interfaces</a> ]	<p>An array of network interfaces that are members of the portset. These are the only network interfaces through which the initiators of a bound igroup can access mapped LUNs.</p> <p>Zero or more network interfaces can be supplied when the portset is created. After creation, network interfaces can be added or removed from the portset using the <code>/protocols/san/portsets/{portset.uuid}/interfaces</code> endpoint. See <a href="#">DELETE /protocols/san/portsets/{portset.uuid}/interfaces/{uuid}</a> for more details.</p>
name	string	<p>The name of the portset. Required in POST.</p> <p>The name of a portset cannot be changed after creation.</p>
protocol	string	<p>The protocols supported by the portset. This restricts the type of network interfaces that can be added to the portset. Optional in POST; if not supplied, this defaults to <i>mixed</i>.</p> <p>The protocol of a portset cannot be changed after creation.</p>

Name	Type	Description
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
uuid	string	The unique identifier for a portset.

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 a portset

POST /protocols/san/portsets

**Introduced In:** 9.9

Creates a portset.

### Required properties

- `svm.uuid` or `svm.name` - Existing SVM in which to create the portset.
- `name` - Name of the portset.

### Recommended optional properties

- `protocol` - The network protocol of the interfaces in the portset.
- `interfaces` - Network interfaces to include in the portset. This property can be used to create the portset and populate it with network interfaces in a single request.

## Default property values

If not specified in POST, the following default property values are assigned.

- `protocol` - *mixed* - Data protocol of the portset's network interfaces.

## Related ONTAP commands

- `lun portset create`

## Learn more

- [DOC /protocols/san/portsets](#)

## 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.  • Default value:

## Request Body

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	
<code>igroups</code>	array[ <a href="#">igroups</a> ]	An array initiator groups to which the portset is bound.
<code>interfaces</code>	array[ <a href="#">interfaces</a> ]	An array of network interfaces that are members of the portset. These are the only network interfaces through which the initiators of a bound igroup can access mapped LUNs.  Zero or more network interfaces can be supplied when the portset is created. After creation, network interfaces can be added or removed from the portset using the <code>/protocols/san/portsets/{portset.uuid}/interfaces</code> endpoint. See <a href="#">DELETE /protocols/san/portsets/{portset.uuid}/interfaces/{uuid}</a> for more details.

Name	Type	Description
name	string	<p>The name of the portset. Required in POST.</p> <p>The name of a portset cannot be changed after creation.</p>
protocol	string	<p>The protocols supported by the portset. This restricts the type of network interfaces that can be added to the portset. Optional in POST; if not supplied, this defaults to <i>mixed</i>.</p> <p>The protocol of a portset cannot be changed after creation.</p>
svm	svm	SVM, applies only to SVM-scoped objects.
uuid	string	The unique identifier for a portset.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "igroups": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "igroup1",
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "interfaces": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "fc": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "fc_lif1",
      "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
      "wwpn": "20:00:00:56:b4:13:a8"
    },
    "ip": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ip": {
        "address": "10.10.10.7"
      },
      "name": "lif1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  }
}
```

```

},
"name": "portset1",
"protocol": "fcp",
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
},
"name": "svm1",
"uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}

```

## Response

Status: 201, Created

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



## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "igroups": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "igroup1",
      "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
    },
    "interfaces": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "fc": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "fc_lif1",
        "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
        "wwpn": "20:00:00:50:56:b4:13:a8"
      },
      "ip": {
        "_links": {
          "self": {
```

```

        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7"
    },
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
},
"name": "portset1",
"protocol": "fcp",
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
}

```

## Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
1254259	A portset with the same name already exists in the SVM.
2621462	The specified SVM does not exist.

Error Code	Description
2621706	The specified <code>svm.uuid</code> and <code>svm.name</code> do not refer to the same SVM.
2621707	No SVM was specified. Either <code>svm.name</code> or <code>svm.uuid</code> must be supplied.
5373958	The specified portset name contains invalid characters.
5373982	An invalid WWN was specified. The length is incorrect.
5373983	An invalid WWN was specified. The format is incorrect.
5374905	An invalid interfaces array element was specified.
5374906	A specified network interface was not found.
5374907	The specified network interface UUID and name don't identify the same network interface.
5374914	An attempt was made to add a network interface of an incompatible protocol to a portset.

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>	

igroups

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the initiator group.
uuid	string	The unique identifier of the initiator group.

fc

An FC interface.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the FC interface.
uuid	string	The unique identifier of the FC interface.
wwpn	string	The WWPN of the FC interface.

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address

ip

A network interface. Either UUID or name may be supplied on input.

Name	Type	Description
_links	<a href="#">_links</a>	
ip	<a href="#">ip</a>	IP information
name	string	The name of the interface. If only the name is provided, the SVM scope must be provided by the object this object is embedded in.
uuid	string	The UUID that uniquely identifies the interface.

#### interfaces

A container for either a Fibre Channel network interface or an IP network interface. On POST `fc` and `ip` are mutually exclusive.

Name	Type	Description
_links	<a href="#">_links</a>	
fc	<a href="#">fc</a>	An FC interface.
ip	<a href="#">ip</a>	A network interface. Either UUID or name may be supplied on input.
uuid	string	The unique identifier of the network interface.

#### svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the SVM. This field cannot be specified in a PATCH method.
uuid	string	The unique identifier of the SVM. This field cannot be specified in a PATCH method.

#### portset

Name	Type	Description
_links	<a href="#">_links</a>	
igroups	array[ <a href="#">igroups</a> ]	An array initiator groups to which the portset is bound.
interfaces	array[ <a href="#">interfaces</a> ]	<p>An array of network interfaces that are members of the portset. These are the only network interfaces through which the initiators of a bound igroup can access mapped LUNs.</p> <p>Zero or more network interfaces can be supplied when the portset is created. After creation, network interfaces can be added or removed from the portset using the</p> <p><code>/protocols/san/portsets/{portset.uuid}/interfaces</code> endpoint. See <a href="#">DELETE /protocols/san/portsets/{portset.uuid}/interfaces/{uuid}</a> for more details.</p>
name	string	<p>The name of the portset. Required in POST.</p> <p>The name of a portset cannot be changed after creation.</p>
protocol	string	<p>The protocols supported by the portset. This restricts the type of network interfaces that can be added to the portset. Optional in POST; if not supplied, this defaults to <i>mixed</i>.</p> <p>The protocol of a portset cannot be changed after creation.</p>
svm	<a href="#">svm</a>	SVM, applies only to SVM-scoped objects.
uuid	string	The unique identifier for a portset.

[\\_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

#### 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 portset network interfaces

GET /protocols/san/portsets/{portset.uuid}/interfaces

**Introduced In:** 9.9

Retrieves interfaces of a portset.

### Related ONTAP commands

- `lun portset show`

### Learn more

- [DOC /protocols/san/portsets](#)

### Parameters

Name	Type	In	Required	Description
portset.uuid	string	path	True	The unique identifier of the portset.
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>
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. <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
<a href="#">_links</a>	<a href="#">_links</a>	



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

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "fc": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "fc_lif1",
      "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
      "wwpn": "20:00:00:50:56:b4:13:a8"
    },
    "ip": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ip": {
        "address": "10.10.10.7"
      },
      "name": "lif1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "portset": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      }
    }
  },
}
```

```

    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "fc": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "fc_lif1",
      "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
      "wwpn": "20:00:00:50:56:b4:13:a8"
    },
    "ip": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ip": {
        "address": "10.10.10.7"
      },
      "name": "lif1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
}
}

```

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
5374908	The portset specified in the URI does not exist.

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>	

fc

An FC interface.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the FC interface.
uuid	string	The unique identifier of the FC interface.
wwpn	string	The WWPN of the FC interface.

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address

ip

A network interface. Either UUID or name may be supplied on input.

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

Name	Type	Description
ip	<a href="#">ip</a>	IP information
name	string	The name of the interface. If only the name is provided, the SVM scope must be provided by the object this object is embedded in.
uuid	string	The UUID that uniquely identifies the interface.

#### portset

The portset in which the network interface is found.

Note that this does not mean that the network interface cannot also be found in other portsets.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
uuid	string	The unique identifier of the portset.

#### records

A container for either a Fibre Channel network interface or an IP network interface. On POST `fc` and `ip` are mutually exclusive.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
fc	<a href="#">fc</a>	An FC interface.
ip	<a href="#">ip</a>	A network interface. Either UUID or name may be supplied on input.
uuid	string	The unique identifier of the network interface.

#### portset\_interface

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
fc	<a href="#">fc</a>	An FC interface.

Name	Type	Description
ip	ip	A network interface. Either UUID or name may be supplied on input.
portset	portset	The portset in which the network interface is found.  Note that this does not mean that the network interface cannot also be found in other portsets.
records	array[records]	An array of network interfaces specified to add multiple interfaces to a portset in a single API call. Valid in POST only and not allowed when the <code>fc</code> or <code>ip</code> property is used.
uuid	string	The unique identifier of the network interface.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### returned\_error

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

## Add portset network interfaces

POST /protocols/san/portsets/{portset.uuid}/interfaces

**Introduced In:** 9.9

Adds one or more interfaces to a portset.

## Required properties

- `fc`, `ip` or `records` - Network interface(s) to add to the portset.

## Related ONTAP commands

- `lun portset add`

## Learn more

- [DOC /protocols/san/portsets](#)

## Parameters

Name	Type	In	Required	Description
portset.uuid	string	path	True	The unique identifier of the portset.
return_records	boolean	query	False	The default is false. If set to true, the records are returned.  • Default value:

## Request Body

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	
<code>fc</code>	<a href="#">fc</a>	An FC interface.
<code>ip</code>	<a href="#">ip</a>	A network interface. Either UUID or name may be supplied on input.
<code>portset</code>	<a href="#">portset</a>	The portset in which the network interface is found.  Note that this does not mean that the network interface cannot also be found in other portsets.



Name	Type	Description
records	array[ <a href="#">records</a> ]	An array of network interfaces specified to add multiple interfaces to a portset in a single API call. Valid in POST only and not allowed when the <code>fc</code> or <code>ip</code> property is used.
uuid	string	The unique identifier of the network interface.

## Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "fc": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "fc_lif1",
    "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
    "wwpn": "20:00:00:50:56:b4:13:a8"
  },
  "ip": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7"
    },
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "portset": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "fc": {
      "_links": {
```

```

    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "fc_lif1",
  "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
  "wwpn": "20:00:00:50:56:b4:13:a8"
},
"ip": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "ip": {
    "address": "10.10.10.7"
  },
  "name": "lif1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
},
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
}

```

## Response

Status: 201, Created

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

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "fc": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "fc_lif1",
      "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
      "wwpn": "20:00:00:50:56:b4:13:a8"
    },
    "ip": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ip": {
        "address": "10.10.10.7"
      },
      "name": "lif1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "portset": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      }
    }
  },
}
```

```

    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "fc": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "fc_lif1",
      "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
      "wwpn": "20:00:00:50:56:b4:13:a8"
    },
    "ip": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ip": {
        "address": "10.10.10.7"
      },
      "name": "lif1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
}
}

```

## Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
5374906	A specified network interface was not found.
5374907	The specified network interface UUID and name don't identify the same network interface.
5374909	An invalid combination of network interface properties was specified.
5374910	An incomplete set of network interface properties was specified.
5374914	An attempt was made to add a network interface of an incompatible protocol to a portset.
5374915	An attempt was made to add a duplicate network interface to a portset.

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>	

fc

An FC interface.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the FC interface.
uuid	string	The unique identifier of the FC interface.
wwpn	string	The WWPN of the FC interface.

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address

ip

A network interface. Either UUID or name may be supplied on input.

Name	Type	Description
_links	<a href="#">_links</a>	
ip	<a href="#">ip</a>	IP information
name	string	The name of the interface. If only the name is provided, the SVM scope must be provided by the object this object is embedded in.

Name	Type	Description
uuid	string	The UUID that uniquely identifies the interface.

#### portset

The portset in which the network interface is found.

Note that this does not mean that the network interface cannot also be found in other portsets.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
uuid	string	The unique identifier of the portset.

#### records

A container for either a Fibre Channel network interface or an IP network interface. On POST `fc` and `ip` are mutually exclusive.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
<code>fc</code>	<code>fc</code>	An FC interface.
<code>ip</code>	<code>ip</code>	A network interface. Either UUID or name may be supplied on input.
uuid	string	The unique identifier of the network interface.

#### portset\_interface

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
<code>fc</code>	<code>fc</code>	An FC interface.
<code>ip</code>	<code>ip</code>	A network interface. Either UUID or name may be supplied on input.



Name	Type	Description
portset	<a href="#">portset</a>	The portset in which the network interface is found.  Note that this does not mean that the network interface cannot also be found in other portsets.
records	array[ <a href="#">records</a> ]	An array of network interfaces specified to add multiple interfaces to a portset in a single API call. Valid in POST only and not allowed when the <code>fc</code> or <code>ip</code> property is used.
uuid	string	The unique identifier of the network interface.

#### `_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

#### `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 portset network interfaces

DELETE /protocols/san/portsets/{portset.uuid}/interfaces/{uuid}

Introduced In: 9.9

Deletes a network interface from a portset.

## Related ONTAP commands

- `lun portset remove`

## Learn more

- [DOC /protocols/san/portsets](#)

## Parameters

Name	Type	In	Required	Description
portset.uuid	string	path	True	The unique identifier of the portset.
uuid	string	path	True	The unique identifier of the network interface in the portset.

## Response

Status: 200, Ok

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
5374906	A specified network interface was not found.
5374908	The portset specified in the URI does not exist.
5374916	The specified network interface is not in the portset.

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

#### 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 specific portset network interfaces

GET /protocols/san/portsets/{portset.uuid}/interfaces/{uuid}

Introduced In: 9.9

Retrieves a network interface of a portset.

## Related ONTAP commands

- `lun portset show`

## Learn more

- [DOC /protocols/san/portsets](#)

## Parameters

Name	Type	In	Required	Description
portset.uuid	string	path	True	The unique identifier of the portset.
uuid	string	path	True	The unique identifier of the network interface in the portset.
fields	array[string]	query	False	Specify the fields to return.

## Response

Status: 200, Ok

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
<a href="#">fc</a>	<a href="#">fc</a>	An FC interface.
<a href="#">ip</a>	<a href="#">ip</a>	A network interface. Either UUID or name may be supplied on input.

Name	Type	Description
portset	portset	<p>The portset in which the network interface is found.</p> <p>Note that this does not mean that the network interface cannot also be found in other portsets.</p>
records	array[records]	<p>An array of network interfaces specified to add multiple interfaces to a portset in a single API call. Valid in POST only and not allowed when the <code>fc</code> or <code>ip</code> property is used.</p>
uuid	string	<p>The unique identifier of the network interface.</p>

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "fc": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "fc_lif1",
    "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
    "wwpn": "20:00:00:50:56:b4:13:a8"
  },
  "ip": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "ip": {
      "address": "10.10.10.7"
    },
    "name": "lif1",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "portset": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "fc": {
      "_links": {
```

```

    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "fc_lif1",
  "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
  "wwpn": "20:00:00:50:56:b4:13:a8"
},
"ip": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "ip": {
    "address": "10.10.10.7"
  },
  "name": "lif1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
},
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
},
"uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
}

```

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
4	The interface is not a member of the portset.
5374908	The portset specified in the URI does not exist.

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>	

fc

An FC interface.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the FC interface.
uuid	string	The unique identifier of the FC interface.
wwpn	string	The WWPN of the FC interface.

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address

ip

A network interface. Either UUID or name may be supplied on input.

Name	Type	Description
_links	<a href="#">_links</a>	
ip	<a href="#">ip</a>	IP information
name	string	The name of the interface. If only the name is provided, the SVM scope must be provided by the object this object is embedded in.

Name	Type	Description
uuid	string	The UUID that uniquely identifies the interface.

#### portset

The portset in which the network interface is found.

Note that this does not mean that the network interface cannot also be found in other portsets.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
uuid	string	The unique identifier of the portset.

#### records

A container for either a Fibre Channel network interface or an IP network interface. On POST `fc` and `ip` are mutually exclusive.

Name	Type	Description
<a href="#">_links</a>	<a href="#">_links</a>	
<code>fc</code>	<code>fc</code>	An FC interface.
<code>ip</code>	<code>ip</code>	A network interface. Either UUID or name may be supplied on input.
uuid	string	The unique identifier of the network interface.

#### 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

Name	Type	Description
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Delete a portset

DELETE /protocols/san/portsets/{uuid}

**Introduced In:** 9.9

Deletes a portset.

### Related ONTAP commands

- `lun portset delete`

### Learn more

- [DOC /protocols/san/portsets](#)

### Parameters

Name	Type	In	Required	Description
uuid	string	path	True	The unique identifier of the portset.
allow_delete_while_bound	boolean	query	False	<p>Allows deletion of a portset that is bound to an igroup.</p> <p>Deleting a portset can expand the set of LIFs through which a LUN is available.</p> <ul style="list-style-type: none"> <li>• Default value:</li> </ul>

### Response

Status: 200, Ok

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
5374063	An attempt was made to delete a portset that is bound to an initiator group without using query parameter <code>allow_delete_while_bound</code> .
5374908	The portset does not exist.

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

error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

returned\_error

Name	Type	Description
arguments	array[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

## Retrieve a portset

GET /protocols/san/portsets/{uuid}

**Introduced In:** 9.9

Retrieves a portset.

## Related ONTAP commands

- `lun portset show`

## Learn more

- [DOC /protocols/san/portsets](#)

## Parameters

Name	Type	In	Required	Description
uuid	string	path	True	The unique identifier of the portset.

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>	
igroups	array[ <a href="#">igroups</a> ]	An array initiator groups to which the portset is bound.
interfaces	array[ <a href="#">interfaces</a> ]	<p>An array of network interfaces that are members of the portset. These are the only network interfaces through which the initiators of a bound igroup can access mapped LUNs.</p> <p>Zero or more network interfaces can be supplied when the portset is created. After creation, network interfaces can be added or removed from the portset using the <code>/protocols/san/portsets/{portset.uuid}/interfaces</code> endpoint. See <a href="#">DELETE /protocols/san/portsets/{portset.uuid}/interfaces/{uuid}</a> for more details.</p>
name	string	<p>The name of the portset. Required in POST.</p> <p>The name of a portset cannot be changed after creation.</p>
protocol	string	<p>The protocols supported by the portset. This restricts the type of network interfaces that can be added to the portset. Optional in POST; if not supplied, this defaults to <i>mixed</i>.</p> <p>The protocol of a portset cannot be changed after creation.</p>

Name	Type	Description
svm	svm	SVM, applies only to SVM-scoped objects.
uuid	string	The unique identifier for a portset.

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "igroups": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "igroup1",
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  },
  "interfaces": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "fc": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "fc_lif1",
      "uuid": "3a09ab42-4da1-32cf-9d35-3385a6101a0b",
      "wwpn": "20:00:00:50:56:b4:13:a8"
    },
    "ip": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "ip": {
        "address": "10.10.10.7"
      },
      "name": "lif1",
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
    },
    "uuid": "4ea7a442-86d1-11e0-ae1c-123478563412"
  }
}
```



```

},
"name": "portset1",
"protocol": "fcp",
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
},
"name": "svm1",
"uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}

```

## Error

Status: Default

### ONTAP Error Response Codes

Error Code	Description
4	The portset does not exist.

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>	

igroups

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the initiator group.
uuid	string	The unique identifier of the initiator group.

fc

An FC interface.

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	The name of the FC interface.
uuid	string	The unique identifier of the FC interface.
wwpn	string	The WWPN of the FC interface.

ip

IP information

Name	Type	Description
address	string	IPv4 or IPv6 address

ip

A network interface. Either UUID or name may be supplied on input.

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	
<code>ip</code>	<code>ip</code>	IP information
<code>name</code>	string	The name of the interface. If only the name is provided, the SVM scope must be provided by the object this object is embedded in.
<code>uuid</code>	string	The UUID that uniquely identifies the interface.

#### interfaces

A container for either a Fibre Channel network interface or an IP network interface. On POST `fc` and `ip` are mutually exclusive.

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	
<code>fc</code>	<code>fc</code>	An FC interface.
<code>ip</code>	<code>ip</code>	A network interface. Either UUID or name may be supplied on input.
<code>uuid</code>	string	The unique identifier of the network interface.

#### svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
<code>_links</code>	<a href="#">_links</a>	
<code>name</code>	string	The name of the SVM. This field cannot be specified in a PATCH method.
<code>uuid</code>	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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