



# **Manage network IPspaces**

## **REST API reference**

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# Manage network IPspaces

## Manage network IPspaces

### Overview

An IPspace is an addressing domain within which each IP address is unique. The same address may appear in a different IPspace, but the matching addresses are considered to be distinct. SVMs and broadcast domains, and therefore IP interfaces and Ethernet ports, are associated with a single IPspace. This endpoint supports the following operations: GET (collection and instance), POST, PATCH, and DELETE.

### Retrieving IPspace information

You can use the IPspaces GET API to retrieve all IPspaces configured in the cluster, including built-in and custom IPspaces, and specifically requested IPspaces.

### Examples

#### Retrieving a list of the IPspaces in the cluster

The following example returns the requested list of IPspaces configured in the cluster.

```
# The API:
/api/network/ipspaces

# The call:
curl -X GET "https://<mgmt-ip>/api/network/ipspaces?fields=*" -H "accept:
application/hal+json"

# The response:
{
  "records": [
    {
      "uuid": "dcc7e79c-5acc-11e8-b9de-005056b42b32",
      "name": "Default",
      "_links": {
        "self": {
          "href": "/api/network/ipspaces/dcc7e79c-5acc-11e8-b9de-
005056b42b32"
        }
      }
    },
    {
      "uuid": "dfd3c1b2-5acc-11e8-b9de-005056b42b32",
      "name": "Cluster",
      "_links": {
        "self": {
```

```
      "href": "/api/network/ipspaces/dfd3c1b2-5acc-11e8-b9de-005056b42b32"
    }
  },
  {
    "uuid": "dedec1be-5aec-1eee-beee-0eee56be2b3e",
    "name": "IpSPACE1",
    "_links": {
      "self": {
        "href": "/api/network/ipspaces/dedec1be-5aec-1eee-beee-0eee56be2b3e"
      }
    }
  }
],
"num_records": 3,
"_links": {
  "self": {
    "href": "/api/network/ipspaces?fields=*"
  }
}
}
```

---

### Retrieving a specific IPspace in the cluster

The following example returns the specific IPspace requested. The system returns an error if there is no IPspace with the requested UUID.

---

```
# The API:
/api/network/ipspaces/{uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/network/ipspaces/dfd3c1b2-5acc-11e8-b9de-005056b42b32?fields=*" -H "accept: application/hal+json"

# The response:
{
  "uuid": "dcc7e79c-5acc-11e8-b9de-005056b42b32",
  "name": "Default",
  "_links": {
    "self": {
      "href": "/api/network/ipspaces/dcc7e79c-5acc-11e8-b9de-005056b42b32"
    }
  }
}
```

---

## Creating IPspaces

You can use the network IPspaces POST API to create IPspaces.

---

## Example

### Creating an IPspace

The following output displays the record returned after the creation of an IPspace with the name "ipspace1".

---

```
# The API:
/api/network/ipspaces

# The call:
curl -X POST "https://<mgmt-ip>/api/network/ipspaces?return_records=true"
-H "accept: application/hal+json" -d "{ \"name\": \"ipspace2\"}"

# The response:
{
  "num_records": 1,
  "records": [
    {
      "uuid": "4165655e-0528-11e9-bd68-005056bb046a",
      "name": "ipspace2",
      "_links": {
        "self": {
          "href": "/api/network/ipspaces/4165655e-0528-11e9-bd68-005056bb046a"
        }
      }
    }
  ]
}
```

---

## Updating IPspaces

You can use the IPspaces PATCH API to update the attributes of the IPspace.

---

### Example

#### Updating the name of an IPspace

The following PATCH request is used to update the name of the IPspace from "ipspace2" to "ipspace20".

---

```
# The API:
/api/network/ipspaces/{uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/network/ipspaces/4165655e-0528-11e9-bd68-005056bb046a" -H "accept: application/hal+json" -d '{"name": "ipspace20"}'
```

---

## Deleting IPspaces

You can use the IPspaces DELETE API to delete an IPspace.

---

### Example

#### Deleting an IPspace

The following DELETE request is used to delete an IPspace.

```
# The API:
/api/network/ipspaces/{uuid}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/network/ipspaces/4165655e-0528-11e9-bd68-005056bb046a" -H "accept: application/hal+json" -H "Content-Type: application/json"
```

---

## Retrieve IPspaces for a cluster

GET /network/ipspaces

**Introduced In:** 9.6

Retrieves a collection of IPspaces for the entire cluster.

### Related ONTAP commands

- `network ipspace show`



## Parameters

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

## Response

Status: 200, Ok

| Name        | Type                             | Description       |
|-------------|----------------------------------|-------------------|
| _links      | <a href="#">_links</a>           |                   |
| num_records | integer                          | Number of records |
| records     | array[ <a href="#">ipSPACE</a> ] |                   |

### Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "ipSPACE1",
      "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> |             |

ipspace

| Name   | Type                   | Description                                    |
|--------|------------------------|------------------------------------------------|
| _links | <a href="#">_links</a> |                                                |
| name   | string                 | IPspace name                                   |
| uuid   | string                 | The UUID that uniquely identifies the IPspace. |

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     |

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

## Create a new domain with unique IP addresses

POST /network/ipspaces

**Introduced In:** 9.6

Creates a new domain within which IP addresses are unique. SVMs, ports, and networks are scoped to a single IPspace.

### Required properties

- `name` - Name of the IPspace to create.

### Related ONTAP commands

- `network ipspace create`

### Parameters

| Name           | Type    | In    | Required | Description                                                                             |
|----------------|---------|-------|----------|-----------------------------------------------------------------------------------------|
| return_records | boolean | query | False    | The default is false. If set to true, the records are returned.<br><br>• Default value: |

### Request Body

| Name | Type   | Description                                    |
|------|--------|------------------------------------------------|
| name | string | IPspace name                                   |
| uuid | string | The UUID that uniquely identifies the IPspace. |

## Example request

```
{
  "name": "ipspace1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
```

## Response

Status: 201, Created

## Headers

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

## Error

Status: Default

## ONTAP Error Response Codes

| Error Code | Description                                                                                                           |
|------------|-----------------------------------------------------------------------------------------------------------------------|
| 1377261    | An IPspace with the same name already exists.                                                                         |
| 1966449    | Invalid IPspace name in MetroCluster configurations.                                                                  |
| 1966586    | The specified IPspace name is invalid because it is already used by a peered SVM.                                     |
| 1967102    | A POST operation might have left the configuration in an inconsistent state. Check the configuration.                 |
| 9240587    | Name cannot be empty.                                                                                                 |
| 9240588    | The name is too long.                                                                                                 |
| 9240589    | Invalid character in name.                                                                                            |
| 9240590    | The name is reserved by the system.                                                                                   |
| 9240591    | The name is not valid. The name is already in use by a cluster node, Vserver, or it is the name of the local cluster. |

| Error Code | Description                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------|
| 53281576   | Cannot create IPspace because the maximum number of custom IPspaces has already been reached on the cluster. |

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

## Definitions

## See Definitions

href

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

\_links

ipspace

| Name | Type   | Description                                    |
|------|--------|------------------------------------------------|
| name | string | IPspace name                                   |
| uuid | string | The UUID that uniquely identifies the IPspace. |

error\_arguments

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

returned\_error

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

## Delete an IPspace object

DELETE /network/ipspaces/{uuid}

**Introduced In:** 9.6

Deletes an IPspace object.



## Related ONTAP commands

- `network ipspace delete`

## Parameters

| Name | Type   | In   | Required | Description  |
|------|--------|------|----------|--------------|
| uuid | string | path | True     | IPspace UUID |

## Response

Status: 200, Ok

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description                                                                                 |
|------------|---------------------------------------------------------------------------------------------|
| 1966309    | The IPspace cannot be removed because it is being used by the audit log forwarding feature. |
| 1966333    | IPspace can't be removed because it has SVMs assigned.                                      |
| 1969180    | Cannot delete an IPspace with an existing broadcast domain.                                 |

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 information about an IPspace

GET /network/ipspaces/{uuid}

Introduced In: 9.6

Retrieves information about a specific IPspace.

## Related ONTAP commands

- `network ipspace show`

## Parameters

| Name   | Type          | In    | Required | Description                   |
|--------|---------------|-------|----------|-------------------------------|
| uuid   | string        | path  | True     | IPspace UUID                  |
| fields | array[string] | query | False    | Specify the fields to return. |

## Response

Status: 200, Ok

| Name   | Type                   | Description                                    |
|--------|------------------------|------------------------------------------------|
| _links | <a href="#">_links</a> |                                                |
| name   | string                 | IPspace name                                   |
| uuid   | string                 | The UUID that uniquely identifies the IPspace. |

## Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "ipspace1",
  "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 |
|------|----------------------|-------------|
| 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. |

## Update an IPspace object

PATCH /network/ipspaces/{uuid}

**Introduced In:** 9.6

Updates an IPspace object.

### Related ONTAP commands

- `network ipspace rename`

## Parameters

| Name | Type   | In   | Required | Description  |
|------|--------|------|----------|--------------|
| uuid | string | path | True     | IPspace UUID |

## Request Body

| Name | Type   | Description                                    |
|------|--------|------------------------------------------------|
| name | string | IPspace name                                   |
| uuid | string | The UUID that uniquely identifies the IPspace. |

## Example request

```
{
  "name": "ipspace1",
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
}
```

## Response

Status: 200, Ok

## Error

Status: Default

## ONTAP Error Response Codes

| Error Code | Description                                            |
|------------|--------------------------------------------------------|
| 1377256    | Another IPspace with the same name exists.             |
| 1377259    | System-defined IPspaces cannot be modified or removed. |
| 1966449    | Invalid IPspace name in MetroCluster configurations.   |
| 9240587    | IPspace name cannot be empty.                          |
| 9240588    | The specified name is too long.                        |
| 9240589    | Invalid character in specified name.                   |

| Error Code | Description                                                                                                  |
|------------|--------------------------------------------------------------------------------------------------------------|
| 9240590    | Invalid name, the name is reserved by the system.                                                            |
| 9240591    | Invalid name. The name is already in use by a cluster node, Vserver, or it is the name of the local cluster. |

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

## Definitions

## See Definitions

href

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

\_links

ipspace

| Name | Type   | Description                                    |
|------|--------|------------------------------------------------|
| name | string | IPspace name                                   |
| uuid | string | The UUID that uniquely identifies the IPspace. |

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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