



Manage local mapping for hostnames

ONTAP 9.13.1 REST API reference

NetApp
April 02, 2024

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Manage local mapping for hostnames

Name-services local-hosts endpoint overview

Overview

Displays and manages local mapping for hostnames.

Retrieving all hosts table entries

The local-hosts GET endpoint to retrieve all hosts table entries.

Examples

Retrieving all the fields of all hosts table entries.

```
# The API:
GET /api/name-services/local-hosts

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/local-
hosts?return_records=true&return_timeout=15&fields=*" -H "accept:
application/hal+json"

# The response:
{
  "records": [
    {
      "owner": {
        "uuid": "6cdf045c-87ae-11eb-a56a-0050568e0287",
        "name": "svml",
        "_links": {
          "self": {
            "href": "/api/svm/svms/6cdf045c-87ae-11eb-a56a-0050568e0287"
          }
        }
      },
      "address": "1.1.1.1",
      "hostname": "host.sales.foo.com",
      "aliases": [
        "host1.sales.foo.com",
        "host2.sakes.foo.com"
      ],
      "_links": {
```

```
    "self": {
      "href": "/api/name-services/local-hosts/6cdf045c-87ae-11eb-a56a-0050568e0287/1.1.1.1"
    }
  },
  {
    "owner": {
      "uuid": "9d080552-7bff-11eb-a56a-0050568e0287",
      "name": "svm2",
      "_links": {
        "self": {
          "href": "/api/svm/svms/9d080552-7bff-11eb-a56a-0050568e0287"
        }
      },
      "address": "2.2.2.2",
      "hostname": "samplehost2",
      "_links": {
        "self": {
          "href": "/api/name-services/local-hosts/9d080552-7bff-11eb-a56a-0050568e0287/2.2.2.2"
        }
      }
    },
    "num_records": 2,
    "_links": {
      "self": {
        "href": "/api/name-services/local-hosts?return_records=true&return_timeout=15&fields=*"
      }
    }
  }
}
```

Retrieving the hosts table entry of a given svm and address(ipv4/ipv6).

```
# The API:
GET /api/name-services/local-hosts/{owner.uuid}/{address}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-services/local-hosts/9d080552-7bff-11eb-a56a-0050568e0287/3.3.3.3" -H "accept: application/hal+json"

# The response:
{
  "owner": {
    "uuid": "9d080552-7bff-11eb-a56a-0050568e0287",
    "name": "svml",
    "_links": {
      "self": {
        "href": "/api/svm/svms/9d080552-7bff-11eb-a56a-0050568e0287"
      }
    }
  },
  "address": "3.3.3.3",
  "hostname": "samplehost3",
  "aliases": [
    "host1.sales.foo.com",
    "host2.sakes.foo.com"
  ],
  "_links": {
    "self": {
      "href": "/api/name-services/local-hosts/9d080552-7bff-11eb-a56a-0050568e0287/3.3.3.3"
    }
  }
}
```

Creating a hosts table entry

The local-hosts POST endpoint creates a new hosts table entry.

Examples

Creating a hosts table entry with all fields.

```
# The API:
POST /api/name-services/local-hosts

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/local-
hosts?return_records=false" -H "accept: application/json" -H "Content-
Type: application/json" -d "{ \"address\": \"3.3.3.3\", \"aliases\": [
\"host1.sales.foo.com\", \"host2.sakes.foo.com\" ],
\"hostname\": \"samplehost3\", \"owner\": { \"name\": \"svm2\", \"uuid\":
\"9d080552-7bff-11eb-a56a-0050568e0287\" }}"
```

Creating a hosts table entry with only required fields.

```
# The API:
POST /api/name-services/local-hosts

# The call:
curl -X POST "https://<mgmt-ip>/api/name-services/local-
hosts?return_records=false" -H "accept: application/json" -H "Content-
Type: application/json" -d "{ \"address\": \"123.123.123.12\",
\"hostname\": \"host.sales.foo.com\", \"owner\": { \"name\": \"svm2\",
\"uuid\": \"9d080552-7bff-11eb-a56a-0050568e0287\" }}"
```

Updating a hosts table entry

The local-hosts PATCH endpoint updates an existing hosts table entry.

Example

Updating aliases and hostname of a given svm and address(ipv4/ipv6).

```
# The API:
PATCH /api/name-services/local-hosts/{owner.uuid}/{address}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-services/local-hosts/9d080552-7bff-11eb-a56a-0050568e0287/123.123.123.123" -H "accept: application/json" -H "Content-Type: application/json" -d "{ \"aliases\": [ \"host1.sales.foo.com\", \"host2.sakes.foo.com\" ], \"hostname\": \"host.sales.foo.com\"}"
```

Deleting a hosts table entry

The local-hosts DELETE endpoint deletes an existing hosts table entry.

Example

Deleting the hosts table entry of a given svm and address(ipv4/ipv6).

```
# The API:
DELETE /api/name-services/local-hosts/{owner.uuid}/{address}

#The call:
curl -X DELETE "https://<mgmt-ip>/api/name-services/local-hosts/9d080552-7bff-11eb-a56a-0050568e0287/1.1.1.1" -H "accept: application/json"
```

Retrieve IP to hostname mappings for all SVMs in a cluster

GET /name-services/local-hosts

Introduced In: 9.10

Retrieves all IP to hostname mappings for all SVMs of the cluster.

Related ONTAP commands

- `vserver services name-service dns hosts show`

Learn more

- [DOC /name-services/local-hosts](#)

Parameters

| Name | Type | In | Required | Description |
|----------------|---------------|-------|----------|--|
| aliases | string | query | False | Filter by aliases |
| owner.uuid | string | query | False | Filter by owner.uuid |
| owner.name | string | query | False | Filter by owner.name |
| scope | string | query | False | Filter by scope |
| address | string | query | False | Filter by address |
| hostname | string | query | False | Filter by hostname <ul style="list-style-type: none">• maxLength: 255• minLength: 1 |
| 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">• Default value: 1 |

| 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"> • Default value: 1 • Max value: 120 • Min value: 0 |
| order_by | array[string] | query | False | Order results by specified fields and optional [asc |

Response

Status: 200, Ok

| Name | Type | Description |
|-------------|-------------------------------------|--------------------------------|
| _links | _links | |
| num_records | integer | Number of hosts to IP records. |
| records | array[local_host] | |

Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "address": "123.123.123.123",
    "aliases": [
      "host1.sales.foo.com",
      "host2.sakes.foo.com"
    ],
    "hostname": "host.sales.foo.com",
    "owner": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svm1",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "scope": "cluster"
  }
}
```

Error

Status: Default, Error

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

Example error

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

Definitions

See Definitions

href

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

_links

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

_links

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

owner

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

local_host

| Name | Type | Description |
|----------|------------------------|---|
| _links | _links | |
| address | string | IPv4/IPv6 address in dotted form. |
| aliases | array[string] | The list of aliases. |
| hostname | string | Canonical hostname. |
| owner | owner | |
| scope | string | Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects. |

error_arguments

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

error

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

Create a new IP to hostname mapping

POST `/name-services/local-hosts`

Introduced In: 9.10

Creates a new IP to hostname mapping.

Required properties

- `owner.uuid` or `owner.name` - Existing SVM in which to create IP to host mapping.
- `address` - IPv4/IPv6 address in dotted form.
- `hostname` - Canonical hostname.

Related ONTAP commands

- `vserver services name-service dns hosts create`

Learn more

- [DOC /name-services/local-hosts](#)

Parameters

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

Request Body

| Name | Type | Description |
|----------|------------------------|---|
| _links | _links | |
| address | string | IPv4/IPv6 address in dotted form. |
| aliases | array[string] | The list of aliases. |
| hostname | string | Canonical hostname. |
| owner | owner | |
| scope | string | Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects. |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "address": "123.123.123.123",
  "aliases": [
    "host1.sales.foo.com",
    "host2.sakes.foo.com"
  ],
  "hostname": "host.sales.foo.com",
  "owner": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"scope": "cluster"
}
```

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 |
|------------|--|
| 1966253 | IPv6 is not enabled in the cluster. Enable IPv6 using command "network options ipv6 modify -enabled true" and try again. |
| 8912896 | Only admin or data Vservers allowed. |
| 23724055 | Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support. |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

owner

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

local_host

| Name | Type | Description |
|----------|------------------------|---|
| _links | _links | |
| address | string | IPv4/IPv6 address in dotted form. |
| aliases | array[string] | The list of aliases. |
| hostname | string | Canonical hostname. |
| owner | owner | |
| scope | string | Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects. |

error_arguments

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

error

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

Delete an existing host object

DELETE /name-services/local-hosts/{owner.uuid}/{address}

Introduced In: 9.10

Deletes an existing host object.

Related ONTAP commands

- `vserver services name-service dns hosts delete`

Learn more

- [DOC /name-services/local-hosts](#)

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| owner.uuid | string | path | True | UUID of the owner to which this object belongs. |
| address | string | path | True | The IP address. |

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 23724055 | Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support. |

| 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

error_arguments

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

error

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

Retrieve the hostname mapping for an SVM

```
GET /name-services/local-hosts/{owner.uuid}/{address}
```

Introduced In: 9.10

For a specified SVM and IP address, returns the corresponding IP to hostname mapping.

Related ONTAP commands

- `vserver services name-service dns hosts show`

Learn more

- [DOC /name-services/local-hosts](#)

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| owner.uuid | string | path | True | UUID of the owner to which this object belongs. |

| Name | Type | In | Required | Description |
|---------|---------------|-------|----------|-------------------------------|
| address | string | path | True | The IP address. |
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|----------|------------------------|---|
| _links | _links | |
| address | string | IPv4/IPv6 address in dotted form. |
| aliases | array[string] | The list of aliases. |
| hostname | string | Canonical hostname. |
| owner | owner | |
| scope | string | Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects. |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "address": "123.123.123.123",
  "aliases": [
    "host1.sales.foo.com",
    "host2.sakes.foo.com"
  ],
  "hostname": "host.sales.foo.com",
  "owner": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"scope": "cluster"
}
```

Error

Status: Default, Error

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

Example error

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

Definitions

See Definitions

href

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

_links

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

owner

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

error_arguments

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

error

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

Update the hostname mapping for an SVM

```
PATCH /name-services/local-hosts/{owner.uuid}/{address}
```


Introduced In: 9.10

For a specified SVM and IP address, modifies the corresponding IP to hostname mapping.

Related ONTAP commands

- `vserver services name-service dns hosts modify`

Learn more

- [DOC /name-services/local-hosts](#)

Parameters

| Name | Type | In | Required | Description |
|------------|--------|------|----------|---|
| owner.uuid | string | path | True | UUID of the owner to which this object belongs. |
| address | string | path | True | The IP address. |

Request Body

| Name | Type | Description |
|------------------------|------------------------|---|
| _links | _links | |
| address | string | IPv4/IPv6 address in dotted form. |
| aliases | array[string] | The list of aliases. |
| hostname | string | Canonical hostname. |
| owner | owner | |
| scope | string | Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects. |

Example request

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "address": "123.123.123.123",
  "aliases": [
    "host1.sales.foo.com",
    "host2.sakes.foo.com"
  ],
  "hostname": "host.sales.foo.com",
  "owner": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"scope": "cluster"
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|--|
| 23724055 | Internal error. Configuration for Vserver failed. Verify that the cluster is healthy, then try the command again. For further assistance, contact technical support. |

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

Example error

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

Definitions

See Definitions

href

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

_links

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

owner

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

local_host

| Name | Type | Description |
|----------|------------------------|---|
| _links | _links | |
| address | string | IPv4/IPv6 address in dotted form. |
| aliases | array[string] | The list of aliases. |
| hostname | string | Canonical hostname. |
| owner | owner | |
| scope | string | Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects. |

error_arguments

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

error

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

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