# Manage host cache settings

## REST API reference

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# Manage host cache settings

## Name-services cache host settings endpoint overview

### Overview

This API is used to retrieve and manage hosts cache settings.

### Examples

#### Retrieving hosts cache settings

The following examples shows how to use the cache host settings GET endpoint to retrieve host cache settings.

```
# The API:
GET /api/name-services/cache/host/settings

# The call:
curl -X GET "https://<mgmt-ip>/api/name-
services/cache/host/settings?fields=*" -H "accept: application/hal+json"

# The response:
{
"records": [
  {
    "svm": {
      "uuid": "8a1a8730-2036-11ec-8457-005056bbcfdb",
      "name": "vs43"
    },
    "enabled": true,
    "negative_cache_enabled": true,
    "ttl": "P1D",
    "negative_ttl": "PT1M",
    "dns_ttl_enabled": true
  },
  {
    "svm": {
      "uuid": "951e8676-2035-11ec-bfe2-005056bb6bef",
      "name": "spragyaclus-2"
    },
    "enabled": true,
    "negative_cache_enabled": true,
    "ttl": "P1D",
```

```
    "negative_ttl": "PT1M",
    "dns_ttl_enabled": true
  },
  {
    "svm": {
      "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
      "name": "vs34"
    },
    "enabled": true,
    "negative_cache_enabled": true,
    "ttl": "P1D",
    "negative_ttl": "PT1M",
    "dns_ttl_enabled": true
  }
],
"num_records": 3
}
```


#### Retrieving host cache settings for a given SVM

The following examples shows how to use the cache hosts settings GET endpoint to retrieve hosts cache settings for a specific SVM.

```
# The API:
GET /api/name-services/cache/host/settings/{svm.uuid}

# The call:
curl -X GET "https://<mgmt-ip>/api/name-
services/cache/host/settings/dc458b2f-2035-11ec-bfe2-005056bb6bef" -H
"accept: application/hal+json"

# The response:
{
"svm": {
  "uuid": "dc458b2f-2035-11ec-bfe2-005056bb6bef",
  "name": "vs34"
},
"enabled": false,
"negative_cache_enabled": true,
"ttl": "P1D",
"negative_ttl": "PT1M",
"dns_ttl_enabled": true
}
```

#### Updating a hosts cache setting

The following example shows how to use the cache host settings PATCH endpoint to update a host cache setting.

```
# The API:
PATCH /api/name-services/cache/host/settings/{svm.uuid}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/name-
services/cache/host/settings/02c9e252-41be-11e9-81d5-00a0986138f9" -H
"accept: application/json" -H "Content-Type: application/json" -d "{
\"ttl\": \"PT2H\", \"negative_ttl\": \"PT2M\" }"
```

# Retrieve host cache settings

GET `/name-services/cache/host/settings`

**Introduced In:** 9.11

Retrieves host cache settings.

## Related ONTAP commands

- `vserver services name-service cache hosts settings show`

## Learn more

- DOC /name-services/cache/host/settings

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| negative_cache_enabled | boolean | query | False | Filter by negative_cache_enabled |
| svm.uuid | string | query | False | Filter by svm.uuid |
| svm.name | string | query | False | Filter by svm.name |
| enabled | boolean | query | False | Filter by enabled |
| dns_ttl_enabled | boolean | query | False | Filter by dns_ttl_enabled |
| ttl | string | query | False | Filter by ttl |
| negative_ttl | string | query | False | Filter by negative_ttl |
| 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.<br>• Default value: 1 |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.<br>• Default value: 1<br>• Max value: 120<br>• 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 records. |
| records | array[hosts_settings] | |

**Example response**


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "dns_ttl_enabled": 1,
      "negative_ttl": "PT5M",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "ttl": "PT24H"
    }
  ]
}
```


## 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 | |

svm

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

hosts_settings

Hosts cache setting.

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| dns_ttl_enabled | boolean | Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used. |
| enabled | boolean | Indicates whether or not the cache is enabled. |
| negative_cache_enabled | boolean | Indicates whether or not the negative cache is enabled. |
| negative_ttl | string | Specifies negative Time to Live, in ISO 8601 format. |

| Name | Type | Description |
|---|---|---|
| svm | svm | |
| ttl | string | Specifies Time to Live (TTL), in ISO 8601 format. |

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 a host cache setting for an SVM

GET `/name-services/cache/host/settings/{svm.uuid}`

**Introduced In:** 9.11

Retrieves a host cache setting for a given SVM.

## Related ONTAP commands

- `vserver services name-service cache hosts settings show`

## Learn more

- DOC /name-services/cache/host/settings

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| svm.uuid | string | path | True | SVM UUID. |
| negative_cache_enabled | boolean | query | False | Filter by negative_cache_enabled |
| svm.name | string | query | False | Filter by svm.name |
| enabled | boolean | query | False | Filter by enabled |
| dns_ttl_enabled | boolean | query | False | Filter by dns_ttl_enabled |
| ttl | string | query | False | Filter by ttl |
| negative_ttl | string | query | False | Filter by negative_ttl |
| 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.<br>• Default value: 1 |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| return_timeout | integer | query | False | The number of seconds to allow the call to execute before returning. When iterating over a collection, the default is 15 seconds. ONTAP returns earlier if either max records or the end of the collection is reached.<br>• Default value: 1<br>• Max value: 120<br>• 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 | |
| dns_ttl_enabled | boolean | Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used. |
| enabled | boolean | Indicates whether or not the cache is enabled. |
| negative_cache_enabled | boolean | Indicates whether or not the negative cache is enabled. |
| negative_ttl | string | Specifies negative Time to Live, in ISO 8601 format. |
| svm | svm | |

| Name | Type | Description |
|---|---|---|
| ttl | string | Specifies Time to Live (TTL), in ISO 8601 format. |

**Example response**


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "dns_ttl_enabled": 1,
  "negative_ttl": "PT5M",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT24H"
}
```


## 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 | |

svm

| 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 a host cache setting

PATCH `/name-services/cache/host/settings/{svm.uuid}`

**Introduced In:** 9.11

Updates a host cache setting.

## Important notes

- svm.uuid field cannot be empty.
- Returns success in case no values are provided for update.

## Related ONTAP commands

- `vserver services name-service cache hosts settings modify`

## Learn more

- DOC /name-services/cache/host/settings

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| svm.uuid | string | path | True | SVM UUID. |

## Request Body

| Name | Type | Description |
|---|---|---|
| dns_ttl_enabled | boolean | Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used. |
| enabled | boolean | Indicates whether or not the cache is enabled. |
| negative_cache_enabled | boolean | Indicates whether or not the negative cache is enabled. |
| negative_ttl | string | Specifies negative Time to Live, in ISO 8601 format. |
| svm | svm | |
| ttl | string | Specifies Time to Live (TTL), in ISO 8601 format. |

**Example request**

```
{
  "dns_ttl_enabled": 1,
  "negative_ttl": "PT5M",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "ttl": "PT24H"
}
```

## 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. |

## Definitions

**See Definitions**

href

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

_links

svm

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

hosts_settings

Hosts cache setting.

| Name | Type | Description |
|---|---|---|
| dns_ttl_enabled | boolean | Specifies whether TTL is based on the DNS or host settings. If enabled, TTL from DNS is used. |
| enabled | boolean | Indicates whether or not the cache is enabled. |
| negative_cache_enabled | boolean | Indicates whether or not the negative cache is enabled. |
| negative_ttl | string | Specifies negative Time to Live, in ISO 8601 format. |
| svm | svm | |
| ttl | string | Specifies Time to Live (TTL), in ISO 8601 format. |

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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