



Manage NIS configuration

REST API reference

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Manage NIS configuration

Security authentication cluster NIS endpoint overview

Overview

NIS servers are used to authenticate user and client computers. NIS domain name and NIS server information is required to configure NIS. This API retrieves and manages NIS server configurations.

Examples

Retrieving cluster NIS information

The cluster NIS GET request retrieves the NIS configuration of the cluster.

The following example shows how a GET request is used to retrieve the cluster NIS configuration:

```
# The API:
/security/authentication/cluster/nis

# The call:
curl -X GET "https://<mgmt-ip>/api/security/authentication/cluster/nis" -H
"accept: application/hal+json"

# The response:
{
  "domain": "domainA.example.com",
  "servers": [
    "10.10.10.10",
    "example.com"
  ],
  "bound_servers": [
    "10.10.10.10"
  ]
}
```

Creating the cluster NIS configuration

The cluster NIS POST request creates a NIS configuration for the cluster.

The following example shows how a POST request is used to create a cluster NIS configuration:

```
# The API:
/security/authentication/cluster/nis

# The call:
curl -X POST "https://<mgmt-ip>/api/security/authentication/cluster/nis"
-H "accept: application/json" -H "Content-Type: application/json" -d "{
\"domain\": \"domainA.example.com\", \"servers\": [
\"10.10.10.10\", \"example.com\" ]}"
```

Updating the cluster NIS configuration

The cluster NIS PATCH request updates the NIS configuration of the cluster.

The following example shows how to update the domain:

```
# The API:
/security/authentication/cluster/nis

# The call:
curl -X PATCH "https://<mgmt-ip>/api/security/authentication/cluster/nis"
-H "accept: application/json" -H "Content-Type: application/json" -d "{
\"domain\": \"domainC.example.com\", \"servers\": [ \"13.13.13.13\" ]}"
```

The following example shows how to update the server:

```
# The API:
/security/authentication/cluster/nis

# The call:
curl -X PATCH "https://<mgmt-ip>/api/security/authentication/cluster/nis"
-H "accept: application/json" -H "Content-Type: application/json" -d "{
\"servers\": [ \"14.14.14.14\" ]}"
```

Deleting the cluster NIS configuration

The cluster NIS DELETE request deletes the NIS configuration of the cluster.

The following example shows how a DELETE request is used to delete the cluster NIS configuration:

```
# The API:
/security/authentication/cluster/nis

# The call:
curl -X DELETE "https://<mgmt-ip>/api/security/authentication/cluster/nis"
-H "accept: application/hal+json"
```

Delete the NIS configuration for the cluster

DELETE /security/authentication/cluster/nis

Introduced In: 9.6

Deletes the NIS configuration of the cluster. NIS can be removed as a source from ns-switch if NIS is not used for lookups.

Response

Status: 200, Ok

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

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 NIS configuration for the cluster

GET /security/authentication/cluster/nis

Introduced In: 9.6

Retrieves the NIS configuration of the cluster. Both NIS domain and servers are displayed by default. The `bound_servers` property indicates the successfully bound NIS servers.

Parameters

| Name | Type | In | Required | Description |
|--------|---------------|-------|----------|-------------------------------|
| fields | array[string] | query | False | Specify the fields to return. |

Response

Status: 200, Ok

| Name | Type | Description |
|------------------------------|--|--|
| <code>_links</code> | _links | |
| <code>binding_details</code> | array[binding_details] | An array of objects where each object represents the NIS server and it's status for a given NIS domain. It is an advanced field. |
| <code>bound_servers</code> | array[string] | |
| <code>domain</code> | string | The NIS domain to which this configuration belongs. |
| <code>servers</code> | array[string] | A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration. |

Example response

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "binding_details": [
    {
      "server": "string",
      "status": {
        "code": "string",
        "message": "string"
      }
    }
  ],
  "bound_servers": [
    "string"
  ],
  "domain": "string",
  "servers": [
    "string"
  ]
}
```

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 | |

binding_status

| Name | Type | Description |
|---------|--------|--|
| code | string | Code corresponding to the server's binding status. |
| message | string | Detailed description of the server's binding status. |

binding_details

| Name | Type | Description |
|--------|--------------------------------|--|
| server | string | Hostname/IP address of the NIS server in the domain. |
| status | binding_status | |

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 |

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

Update the NIS configuration for the cluster

PATCH /security/authentication/cluster/nis

Introduced In: 9.6

Both NIS domain and servers can be updated. Domains and servers cannot be empty. Both FQDNs and IP addresses are supported for the 'servers' field. If the domain is updated, NIS servers must also be specified. IPv6 must be enabled if IPv6 family addresses are specified for the `servers` property.

Request Body

| Name | Type | Description |
|---------------|------------------------|--|
| _links | _links | |
| bound_servers | array[string] | |
| domain | string | The NIS domain to which this configuration belongs. |
| servers | array[string] | A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration. |

Example request

```
{
  "bound_servers": [
    "string"
  ],
  "domain": "string",
  "servers": [
    "string"
  ]
}
```

Response

Status: 200, Ok

Error

Status: Default

ONTAP Error Response Codes

| Error Code | Description |
|------------|---|
| 1966253 | IPv6 is not enabled in the cluster . |
| 3276964 | The NIS domain name or NIS server domain is too long. The maximum supported for domain name is 64 characters and the maximum supported for NIS server domain is 255 characters. |
| 3276933 | A maximum of 10 NIS servers can be configured per SVM. |
| 23724109 | DNS resolution failed for one or more specified servers. |
| 23724112 | DNS resolution failed due to an internal error. Contact technical support if this issue persists. |
| 23724132 | DNS resolution failed for all the specified servers. |
| 23724130 | Cannot use an IPv6 name server address because there are no IPv6 interfaces |

Definitions

See Definitions

href

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

_links

binding_status

| Name | Type | Description |
|---------|--------|--|
| code | string | Code corresponding to the server's binding status. |
| message | string | Detailed description of the server's binding status. |

binding_details

| Name | Type | Description |
|--------|--------------------------------|--|
| server | string | Hostname/IP address of the NIS server in the domain. |
| status | binding_status | |

cluster_nis_service

| Name | Type | Description |
|---------------|------------------------|--|
| _links | _links | |
| bound_servers | array[string] | |
| domain | string | The NIS domain to which this configuration belongs. |
| servers | array[string] | A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration. |

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 the NIS configuration for the cluster

POST /security/authentication/cluster/nis

Introduced In: 9.6

The cluster can have one NIS server configuration. Specify the NIS domain and NIS servers as input. Domain name and servers fields cannot be empty. Both FQDNs and IP addresses are supported for the `server` property. IPv6 must be enabled if IPv6 family addresses are specified in the `server` property. A maximum of ten NIS servers are supported.

Required properties

- `domain` - NIS domain to which this configuration belongs.
- `servers` - List of hostnames or IP addresses of NIS servers used by the NIS domain configuration.

Request Body

| Name | Type | Description |
|----------------------------|------------------------|--|
| <code>_links</code> | _links | |
| <code>bound_servers</code> | array[string] | |
| <code>domain</code> | string | The NIS domain to which this configuration belongs. |
| <code>servers</code> | array[string] | A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration. |

Example request

```
{
  "bound_servers": [
    "string"
  ],
  "domain": "string",
  "servers": [
    "string"
  ]
}
```

Response

Status: 201, Created

| Name | Type | Description |
|-------------|--|-------------------------------|
| num_records | integer | Number of NIS domain records. |
| records | array[cluster_nis_service] | |

Example response

```
{
  "num_records": 1,
  "records": [
    {
      "bound_servers": [
        "string"
      ],
      "domain": "string",
      "servers": [
        "string"
      ]
    }
  ]
}
```

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. |
| 3276964 | The NIS domain name or NIS server domain is too long. The maximum supported for domain name is 64 characters and the maximum supported for NIS server domain is 255 characters. |
| 3276933 | A maximum of 10 NIS servers can be configured per SVM. |
| 13434916 | The SVM is in the process of being created. Wait a few minutes, and then try the command again. |
| 23724109 | DNS resolution failed for one or more specified servers. |
| 23724112 | DNS resolution failed due to an internal error. Contact technical support if this issue persists. |
| 23724132 | DNS resolution failed for all the specified servers. |
| 23724130 | Cannot use an IPv6 name server address because there are no IPv6 interfaces. |

Definitions

See Definitions

href

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

_links

binding_status

| Name | Type | Description |
|---------|--------|--|
| code | string | Code corresponding to the server's binding status. |
| message | string | Detailed description of the server's binding status. |

binding_details

| Name | Type | Description |
|--------|--------------------------------|--|
| server | string | Hostname/IP address of the NIS server in the domain. |
| status | binding_status | |

cluster_nis_service

| Name | Type | Description |
|---------------|------------------------|--|
| _links | _links | |
| bound_servers | array[string] | |
| domain | string | The NIS domain to which this configuration belongs. |
| servers | array[string] | A list of hostnames or IP addresses of NIS servers used by the NIS domain configuration. |

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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