



View and create TOTP profiles

REST API reference

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View and create TOTP profiles

View and create TOTP profiles

Overview

This API configures the TOTP(Time based OTP) profile for user accounts for secure shell (SSH) access.

Prerequisites: You must configure TOTP as a secondary authentication method in /security/accounts when creating users. You must have a TOTP application that you can use to get TOTP keys. You are only allowed to create a TOTP profile for yourself, not for others. Admin cannot create TOTP profiles for any users.

Examples

Creating a TOTP profile for cluster-scoped user accounts

Specify the user account name and comment in the body of the POST request. The owner.uuid or owner.name are not required for a cluster-scoped user account.

```
# The API:  
POST "/api/security/login/totps"  
  
# The call:  
curl -k https://<mgmt-ip>/api/security/login/totps --request POST --data  
'{ "account": { "name": "pubuser2" }, "comment": "Cserver-Creation" }'  
  
# The response:  
{  
  "num_records": 1,  
  "records": [  
    {  
      "owner": {  
        "uuid": "b009a9e7-4081-b576-7575-ada21efcaf16",  
        "name": "Default",  
        "_links": {  
          "self": {  
            "href": "/api/svm/svms/b009a9e7-4081-b576-7575-ada21efcaf16"  
          }  
        }  
      },  
      "account": {  
        "name": "pubuser2"  
      },  
      "secret_key": "<ACCOUNT-TOTP-SECRET-KEY>",  
      "install_url":  
        "https://www.google.com/chart?chs=200x200&chld=M#124;0&cht=qr&chl=otpauth  
        ://totp/root@node1%3Fsecret%3DDRY5CAJGTQCL5TV4D3UAMYXJFM%26issuer%3Dnode1"  
    }  
  ]  
}
```

```

"verification_code": "946090",
"emergency_codes": [
    "54200192",
    "10418385",
    "52726505",
    "41704451",
    "20744310"
],
"_links": {
    "self": {
        "href": "/api/security/login/totps/b009a9e7-4081-b576-7575-
ada21efcaf16/pubuser2"
    }
}
]
}

```

Creating a TOTP profile for SVM-scoped user accounts

For an SVM-scoped account, specify either the SVM name as the owner.name or the SVM UUID as the owner.uuid along with other parameters for the user account. These parameters indicate the SVM that contains the user account for the TOTP profile being created and can be obtained from the response body of the GET request performed on the API "/api/svm/svms".

```

# The API:
POST "/api/security/login/totps"

# The call:
curl -k https://<mgmt-ip>/api/security/login/totps --request POST --data
'{
    "account": {
        "name": "pubuser4"
    },
    "comment": "Vserver-
Creation",
    "owner.name": "vs0"
}'

# The response:
{
    "num_records": 1,
    "records": [
        {
            "owner": {
                "uuid": "b019a9e7-4081-b576-7575-ada21efcaf16",
                "name": "vs0",
                "_links": {
                    "self": {
                        "href": "/api/svm/svms/b019a9e7-4081-b576-7575-ada21efcaf16"
                    }
                }
            }
        }
    ]
}

```

```

},
"account": {
  "name": "pubuser4"
},
"secret_key": "<ACCOUNT-TOTP-SECRET-KEY>",
"install_url":
"https://www.google.com/chart?chs=200x200&chld=M&#124;0&cht=qr&chl=otpauth
://totp/root@node1%3Fsecret%3DDRY5CAJGTQCL5TV4D3UAMYXJFM%26issuer%3Dnode1"
,
"verification_code": "946090",
"emergency_codes": [
  "54200192",
  "10418385",
  "52726505",
  "41704451",
  "20744310"
],
"_links": {
  "self": {
    "href": "/api/security/login/totps/b019a9e7-4081-b576-7575-
ada21efcaf16/pubuser4"
  }
}
]
}

```

Retrieving the configured TOTP profile for user accounts

Retrieves the TOTP profiles associated with the user accounts or a filtered list (for a specific user account name, a specific SVM and so on).

```

# The API:
GET "/api/security/login/totps"

# The call to retrieve TOTP profiles associated with TOTP configured user
accounts in the cluster:
curl -k https://<mgmt-ip>/api/security/login/totps

# the response:
{
"records": [
{
"owner": {
"uuid": "b009a9e7-4081-b576-7575-ada21efcaf16",
"name": "Default",
"_links": {
"self": {
"href": "/api/svm/svms/b009a9e7-4081-b576-7575-ada21efcaf16"
}
}
},
{
"account": {
"name": "pubuser2",
"_links": {
"self": {
"href": "/api/security/accounts/b009a9e7-4081-b576-7575-
ada21efcaf16/pubuser2"
}
}
},
{
"_links": {
"self": {
"href": "/api/security/login/totps/b009a9e7-4081-b576-7575-
ada21efcaf16/pubuser2"
}
}
}
],
"num_records": 1,
"_links": {
"self": {
"href": "/api/security/login/totps"
}
}
}
}

```

Retrieve TOTP profiles configured for user accounts

GET /security/login/totps

Introduced In: 9.13

Retrieves the TOTP profiles configured for user accounts.

Related ONTAP commands

- `security login totp show`

Learn more

- [DOC /security/login/totps](#)
- [DOC /security/accounts](#)

Parameters

Name	Type	In	Required	Description
account.name	string	query	False	Filter by account.name
owner.name	string	query	False	Filter by owner.name
owner.uuid	string	query	False	Filter by owner.uuid
comment	string	query	False	Filter by comment
enabled	boolean	query	False	Filter by enabled
sha_fingerprint	string	query	False	Filter by sha_fingerprint
scope	string	query	False	Filter by scope
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.

Name	Type	In	Required	Description
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"> • Default value: 1
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: 15 • 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 records.
records	array[totp]	

Example response

```
{  
  "_links": {  
    "next": {  
      "href": "/api/resourcelink"  
    },  
    "self": {  
      "href": "/api/resourcelink"  
    }  
  },  
  "num_records": 1,  
  "records": [  
    {  
      "_links": {  
        "self": {  
          "href": "/api/resourcelink"  
        }  
      },  
      "account": {  
        "_links": {  
          "self": {  
            "href": "/api/resourcelink"  
          }  
        }  
      },  
      "name": "joe.smith"  
    },  
    {"comment": "string",  
     "enabled": "",  
     "owner": {  
       "_links": {  
         "self": {  
           "href": "/api/resourcelink"  
         }  
       }  
     },  
     "name": "svml1",  
     "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
    },  
    {"scope": "string",  
     "sha_fingerprint": "string"  
    }  
  ]  
}
```

Error

Status: Default, Error

Name	Type	Description
error	returned_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	

account_reference

Name	Type	Description
_links	_links	
name	string	User account

owner

Owner name and UUID that uniquely identifies the TOTP profile.

Name	Type	Description
_links	_links	
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.

totp

TOTP profile for the user account used to access SSH.

Name	Type	Description
_links	_links	

Name	Type	Description
account	account_reference	
comment	string	Optional comment for the TOTP profile.
enabled	boolean	Status of the TOTP profile.
owner	owner	Owner name and UUID that uniquely identifies the TOTP profile.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.
sha_fingerprint	string	SHA fingerprint for the TOTP secret key.

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.

Create the TOTP profile for a user account

POST /security/login/totps

Introduced In: 9.13

Creates a TOTP profile for a user account.

Required properties

- `owner.uuid` - Account owner UUID.
- `account.name` - Account user name.

Related ONTAP commands

- `security login totp create`

Learn more

- [DOC /security/login/totps](#)
- [DOC /security/accounts](#)

Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	<p>The default is false. If set to true, the records are returned.</p> <ul style="list-style-type: none">• Default value:

Request Body

Name	Type	Description
account	account_reference	
comment	string	Optional comment for the TOTP profile.
owner	owner	Owner name and UUID that uniquely identifies the TOTP profile.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.
sha_fingerprint	string	SHA fingerprint for the TOTP secret key.

Example request

```
{  
  "account": {  
    "name": "joe.smith"  
  },  
  "comment": "string",  
  "enabled": "",  
  "owner": {  
    "name": "svml1",  
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
  },  
  "scope": "string",  
  "sha_fingerprint": "string"  
}
```

Response

Status: 201, Created

Name	Type	Description
num_records	integer	Number of records.
records	array[totp_post]	

Example response

```
{  
  "num_records": 1,  
  "records": [  
    {  
      "account": {  
        "name": "joe.smith"  
      },  
      "comment": "string",  
      "emergency_codes": "17503785",  
      "enabled": 1,  
      "install_url": "string",  
      "owner": {  
        "name": "svm1",  
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"  
      },  
      "scope": "string",  
      "secret_key": "string",  
      "sha_fingerprint": "string",  
      "verification_code": "string"  
    }  
  ]  
}
```

Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

Error

```
Status: Default
```

ONTAP Error Response Codes

Error Code	Description
144834561	TOTP is not configured for the user.

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

account_reference

Name	Type	Description
name	string	User account

owner

Owner name and UUID that uniquely identifies the TOTP profile.

Name	Type	Description
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.

totp

TOTP profile for the user account used to access SSH.

Name	Type	Description
account	account_reference	
comment	string	Optional comment for the TOTP profile.
owner	owner	Owner name and UUID that uniquely identifies the TOTP profile.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.

Name	Type	Description
sha_fingerprint	string	SHA fingerprint for the TOTP secret key.

totp_post

Response object of the TOTP profile creation.

Name	Type	Description
account	account_reference	
comment	string	Optional comment for the TOTP profile.
emergency_codes	array[string]	TOTP profile emergency codes for a user. These codes are for emergency use when a user cannot access 2FA codes through other means.
install_url	string	TOTP profile installation URL for a user.
owner	owner	Owner name and UUID that uniquely identifies the TOTP profile.
scope	string	Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects.
secret_key	string	TOTP profile secret key for a user.
sha_fingerprint	string	SHA fingerprint for the TOTP secret key.
verification_code	string	TOTP profile verification code for a user.

error_arguments

Name	Type	Description
code	string	Argument code

Name	Type	Description
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.

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