



Manage authentication keys (for admins)

REST API reference

NetApp

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Manage authentication keys (for admins)

Manage authentication keys (for admins)

Overview

This API configures the public keys for user accounts.

For secure shell (SSH) access, public-private key pair based authentication is possible by associating the public key with a user account. Prerequisites: You must have generated the SSH key. You must be a cluster or SVM administrator to perform the user's public key.

Examples

Creating a public key for cluster-scoped user accounts

Specify the user account name, public key, index, comment, and optionally the certificate 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/authentication/publickey"

# The call
curl -k https://<mgmt-ip>/api/security/authentication/publickeys --request
POST --data '{ "account": "pubuser2", "comment": "Cserver-
Creation", "index": 0, "certificate": "<CERTIFICATE-CONTENT>",
"public_key": "<SSH-PUBLIC-KEY>" }'
```

Creating a public key for SVM-scoped user accounts

For a 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 public key 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/authentication/publickey"

# The call
curl -k https://<mgmt-ip>/api/security/authentication/publickeys --request
POST --data '{ "account": "pubuser4", "comment": "Vserver-
Creation", "index": 0, "certificate": "<CERTIFICATE-CONTENT>",
"owner.uuid": "513a78c7-8c13-11e9-8f78-
005056bbf6ac", "owner.name": "vs0", "public_key": "<SSH-PUBLIC-KEY>" }'
```

Retrieving the configured public key for user accounts

Retrieves all public keys associated with the user accounts or a filtered list (for a specific user account name, a specific SVM and so on) of public keys.

```
# The API:
GET "/api/security/authentication/publickeys"

# The call to retrieve all the user accounts configured in the cluster:
curl -k https://<mgmt-ip>/api/security/authentication/publickeys
```

Retrieve public keys configured for user accounts

GET /security/authentication/publickeys

Introduced In: 9.7

Retrieves the public keys configured for user accounts.

Related ONTAP commands

- `security login publickey show`

Learn more

- [DOC /security/authentication/publickeys](#)
- [DOC /security/accounts](#)

Parameters

| Name | Type | In | Required | Description |
|---------------------|---------|-------|----------|--|
| certificate_details | string | query | False | Filter by certificate_details <ul style="list-style-type: none">• Introduced in: 9.13 |
| comment | string | query | False | Filter by comment |
| index | integer | query | False | Filter by index <ul style="list-style-type: none">• Max value: 99• Min value: 0 |
| owner.name | string | query | False | Filter by owner.name |

| Name | Type | In | Required | Description |
|------------------------|---------------|-------|----------|--|
| owner.uuid | string | query | False | Filter by owner.uuid |
| account.name | string | query | False | Filter by account.name |
| certificate | string | query | False | Filter by certificate <ul style="list-style-type: none"> • Introduced in: 9.13 |
| certificate_revoked | string | query | False | Filter by certificate_revoked <ul style="list-style-type: none"> • Introduced in: 9.13 |
| public_key | string | query | False | Filter by public_key |
| obfuscated_fingerprint | string | query | False | Filter by obfuscated_fingerprint |
| sha_fingerprint | string | query | False | Filter by sha_fingerprint |
| scope | string | query | False | Filter by scope |
| certificate_expired | string | query | False | Filter by certificate_expired <ul style="list-style-type: none"> • Introduced in: 9.13 |
| 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"> • Max value: 120 • Min value: 0 • Default value: 15 |
| 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[publickey] | |

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"
      },
      "certificate": "string",
      "certificate_details": "string",
      "certificate_expired": "string",
      "certificate_revoked": "string",
      "comment": "string",
      "obfuscated_fingerprint": "string",
      "owner": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "public_key": "string",
      "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 public key.

| 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. |

publickey

The public key for the user account (to access SSH).

| Name | Type | Description |
|--------|------------------------|-------------|
| _links | _links | |

| Name | Type | Description |
|------------------------|-----------------------------------|---|
| account | account_reference | |
| certificate | string | Optional certificate for the public key. |
| certificate_details | string | The details present in the certificate (READONLY). |
| certificate_expired | string | The expiration details of the certificate (READONLY). |
| certificate_revoked | string | The revocation details of the certificate (READONLY). |
| comment | string | Optional comment for the public key. |
| index | integer | Index number for the public key (where there are multiple keys for the same account). |
| obfuscated_fingerprint | string | The obfuscated fingerprint for the public key (READONLY). |
| owner | owner | Owner name and UUID that uniquely identifies the public key. |
| public_key | string | The public key |
| scope | string | Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects. |
| sha_fingerprint | string | The SHA fingerprint for the public key (READONLY). |

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 a public key for a user account

POST /security/authentication/publickeys

Introduced In: 9.7

Creates a public key along with an optional certificate for a user account.

Required properties

- `owner.uuid` - UUID of the account owner.
- `name` - User account name.
- `index` - Index number for the public key (where there are multiple keys for the same account).
- `public_key` - The publickey details for the creation of the user account.

Optional properties

- `comment` - Comment text for the public key.
- `certificate` - The certificate in PEM format.

Related ONTAP commands

- `security login publickey create`

Learn more

- [DOC /security/authentication/publickeys](#)
- [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 | |
| certificate | string | Optional certificate for the public key. |
| certificate_details | string | The details present in the certificate (READONLY). |
| certificate_expired | string | The expiration details of the certificate (READONLY). |
| certificate_revoked | string | The revocation details of the certificate (READONLY). |
| comment | string | Optional comment for the public key. |
| index | integer | Index number for the public key (where there are multiple keys for the same account). |
| obfuscated_fingerprint | string | The obfuscated fingerprint for the public key (READONLY). |
| owner | owner | Owner name and UUID that uniquely identifies the public key. |
| public_key | string | The public key |
| scope | string | Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects. |
| sha_fingerprint | string | The SHA fingerprint for the public key (READONLY). |

Example request

```
{
  "account": {
    "name": "joe.smith"
  },
  "certificate": "string",
  "certificate_details": "string",
  "certificate_expired": "string",
  "certificate_revoked": "string",
  "comment": "string",
  "obfuscated_fingerprint": "string",
  "owner": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "public_key": "string",
  "scope": "string",
  "sha_fingerprint": "string"
}
```

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 |
|------------|---|
| 5832705 | Public key already exists for the given user and application. |
| 5832707 | Failed to generate fingerprint for the public key. |

| Error Code | Description |
|------------|--|
| 5832722 | The public key cannot be associated with this user on the SVM because a login method using the given application and authentication method does not exist for this 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 public key.

| 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. |

publickey

The public key for the user account (to access SSH).

| Name | Type | Description |
|---------------------|-----------------------------------|---|
| account | account_reference | |
| certificate | string | Optional certificate for the public key. |
| certificate_details | string | The details present in the certificate (READONLY). |
| certificate_expired | string | The expiration details of the certificate (READONLY). |
| certificate_revoked | string | The revocation details of the certificate (READONLY). |

| Name | Type | Description |
|------------------------|-----------------------|---|
| comment | string | Optional comment for the public key. |
| index | integer | Index number for the public key (where there are multiple keys for the same account). |
| obfuscated_fingerprint | string | The obfuscated fingerprint for the public key (READONLY). |
| owner | owner | Owner name and UUID that uniquely identifies the public key. |
| public_key | string | The public key |
| scope | string | Scope of the entity. Set to "cluster" for cluster owned objects and to "svm" for SVM owned objects. |
| sha_fingerprint | string | The SHA fingerprint for the public key (READONLY). |

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. |

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