



Manage authentication keys (for admins)

ONTAP 9.11.1 REST API reference

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Manage authentication keys (for admins)

Security authentication publickeys endpoint overview

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, 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/authentication/publickey"

# The call
curl -k https://<mgmt-ip>/api/security/authentication/publickeys --request
POST --data '{ "account": "pubuser2", "comment": "Cserver-
Creation", "index": 0, "public_key": "ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQDWTerk2xXi3Lkrqrm6Q67aNmNDNKgpezwz19Ap+DxtM
xmocHC52CuwEcJjIUe121uAi0myscaJmC5Y0BzSnYuwcJ3/82kconFUwtK0h6QUTGqbc0vb4MZ
39yIiiItCOBWTot3msJYfzB+dgCxmZ+0bl9YwZxrWMWP6XDJw/ai/EfWTZHC7e8Xe1mfp+C0c
GMhlxRvgfeGjhZqU85DBfdGD5Tu/67vD13Q+817Jf8iBxgrEFiqirnkWNX5dj+jkM1EVC3s6dY
ciJNBEiMxNkSFGTnkG74S61pvZNFd6mSznV/28h13zSjwWiuacsp3BelydeG8nEcCRN5Ap7vMd
vd" }'
```

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, "owner.uuid": "513a78c7-8c13-11e9-8f78-
005056bbf6ac", "owner.name": "vs0", "public_key": "ssh-rsa
AAAAB3NzaC1yc2EAAAADAQABAAQDQWJTerk2xXi3Lkrqrm6Q67aNmNDNKgpezwz19Ap+DxtM
xmocHC52CuwEcJjIUe121uAi0myscaJmC5Y0BzSnYuwcJ3/82kconFUwtK0h6QUTGqbc0vb4MZ
39yIiiItCOBWTot3msJYfZB+dgCcxMZ+0bl9YwZXRWMWP6XDJw/ai/EfWTZHC7e8Xe1mfp+C0c
GMhlxRvgfeGjhZqU85DBfdGD5Tu/67vD13Q+817Jf8iBxgrEfiqirnkWNX5dj+jkM1EVC3s6dY
ciJNBEiMxNkSFGTnkG74S61pvZNFd6mSznV/28hl3zSjwWiuacsP3BelydeG8nEcCRN5Ap7vMd
Vd" }'
```

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 the 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 |
|------------------------|---------------|-------|----------|--|
| sha_fingerprint | string | query | False | Filter by sha_fingerprint |
| index | integer | query | False | Filter by index <ul style="list-style-type: none">• Max value: 99• Min value: 0 |
| obfuscated_fingerprint | string | query | False | Filter by obfuscated_fingerprint |
| account.name | string | query | False | Filter by account.name |
| comment | string | query | False | Filter by comment |
| scope | string | query | False | Filter by scope |
| owner.uuid | string | query | False | Filter by owner.uuid |
| owner.name | string | query | False | Filter by owner.name |
| public_key | string | query | False | Filter by public_key |
| 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: 1 |
| 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"
    }
  },
  "records": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "account": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "joe.smith"
    },
    "comment": "string",
    "obfuscated_fingerprint": "string",
    "owner": {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "name": "svml",
      "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
    },
    "scope": "cluster",
    "sha_fingerprint": "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 |
|------|----------------------|-------------|
| 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. |
| uuid | string | The unique identifier of the SVM. |

publickey

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

| Name | Type | Description |
|---------|-----------------------------------|-------------|
| _links | _links | |
| account | account_reference | |

| 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 |

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 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.

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 | The default is false. If set to true, the records are returned. • Default value: |

Request Body

| Name | Type | Description |
|---------|-----------------------------------|---|
| _links | _links | |
| account | account_reference | |
| 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). |

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

```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "account": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "joe.smith"
  },
  "comment": "string",
  "obfuscated_fingerprint": "string",
  "owner": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "scope": "cluster",
  "sha_fingerprint": "string"
}
```

Response

Status: 201, Created

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 | |

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. |
| uuid | string | The unique identifier of the SVM. |

publickey

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

| Name | Type | Description |
|---------|-----------------------------------|---|
| _links | _links | |
| account | account_reference | |
| 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). |

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

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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