



# **Manage authentication keys (for admins)**

## **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
AAAAB3NzaC1yc2EAAAADAQABAAQDWJTerk2xXi3Lkrqrm6Q67aNmNDNKgpezwzl9Ap+DxtM
xmocHC52CuWecJjIUel21uAi0myscaJmC5Y0BzSnYuwcJ3/82kconFUwtK0h6QUTGqbc0vb4MZ
39yIiiItCOBWtTot3msJYfZB+dgCxCxMZ+0bl9YwZXrWMWP6XDJw/ai/EfWTZHC7e8Xe1mfp+C0c
GMhlxRvgfEGjhZqU85DBfdGD5Tu/67vD13Q+817Jf8iBxgrEFiqirnkWNX5dj+jkMlEVC3s6dY
ciJNBEiMxNkSFGTnkG74S61pvZNFD6mSznV/28hl3zSjwWiuacsp3BelydeG8nEcCRN5Ap7vMd
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
AAAAB3NzaC1yc2EAAAADAQABAAQDWWJTerK2xXi3Lkrqrm6Q67aNmNDNKgpezwz19Ap+DxtM
xmocHC52CuWecJjIUe121uAi0myscaJmC5Y0BzSnYuwcJ3/82kconFUwtK0h6UTGqbc0vb4MZ
39yIiiItCOBWTot3msJYfZB+dgCxCxMZ+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 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
scope	string	query	False	Filter by scope
comment	string	query	False	Filter by comment
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
account.name	string	query	False	Filter by account.name
sha_fingerprint	string	query	False	Filter by sha_fingerprint
obfuscated_fingerprint	string	query	False	Filter by obfuscated_fingerprint
index	integer	query	False	Filter by index
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.  • 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"> <li>• Default value: 1</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul>
order_by	array[string]	query	False	Order results by specified fields and optional [asc

## Response

Status: 200, Ok

Name	Type	Description
_links	<a href="#">_links</a>	
num_records	integer	Number of records
records	array[ <a href="#">publickey</a> ]	

## 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": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "public_key": "string",
      "scope": "string",
      "sha_fingerprint": "string"
    }
  ]
}
```

## Error

Status: Default, Error

Name	Type	Description
error	<a href="#">error</a>	

### 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	<a href="#">href</a>	
self	<a href="#">href</a>	

\_links

Name	Type	Description
self	<a href="#">href</a>	

account\_reference

Name	Type	Description
_links	<a href="#">_links</a>	
name	string	User account

owner

Owner name and UUID that uniquely identifies the public key.

Name	Type	Description
_links	<a href="#">_links</a>	
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	<a href="#">_links</a>	
account	<a href="#">account_reference</a>	

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	<a href="#">owner</a>	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[ <a href="#">error_arguments</a> ]	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
account	<a href="#">account_reference</a>	
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

```
{
  "account": {
    "name": "joe.smith"
  },
  "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

### Error

Status: Default, Error

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

publickey

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

Name	Type	Description
account	<a href="#">account_reference</a>	
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	<a href="#">owner</a>	Owner name and UUID that uniquely identifies the public key.
public_key	string	The public key

Name	Type	Description
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[ <a href="#">error_arguments</a> ]	Message arguments
code	string	Error code
message	string	Error message
target	string	The target parameter that caused the error.

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