



# Manage authentication keys (for admins)

## REST API reference

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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
account.name	string	query	False	Filter by account.name
certificate_expired	string	query	False	Filter by certificate_expired <ul style="list-style-type: none"><li>• Introduced in: 9.13</li></ul>
public_key	string	query	False	Filter by public_key
obfuscated_fingerpri nt	string	query	False	Filter by obfuscated_fingerpri nt

Name	Type	In	Required	Description
certificate_details	string	query	False	Filter by certificate_details <ul style="list-style-type: none"> <li>Introduced in: 9.13</li> </ul>
certificate_revoked	string	query	False	Filter by certificate_revoked <ul style="list-style-type: none"> <li>Introduced in: 9.13</li> </ul>
certificate	string	query	False	Filter by certificate <ul style="list-style-type: none"> <li>Introduced in: 9.13</li> </ul>
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
sha_fingerprint	string	query	False	Filter by sha_fingerprint
index	integer	query	False	Filter by index <ul style="list-style-type: none"> <li>Max value: 99</li> <li>Min value: 0</li> </ul>
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.
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"> <li>Default value: 1</li> </ul>

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>• Max value: 120</li> <li>• Min value: 0</li> <li>• Default value: 15</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"  
    }  
  },  
  "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	<a href="#">returned_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	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	<a href="#">account_reference</a>	
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	<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

#### 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"> <li>• Default value:</li> </ul>

## Request Body

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

## Example request

```
{  
  "account": {  
    "name": "joe.smith"  
,  
    "certificate": "string",  
    "certificate_details": "string",  
    "certificate_expired": "string",  
    "certificate_revoked": "string",  
    "comment": "string",  
    "obfuscated_fingerprint": "string",  
    "owner": {  
      "name": "svml",  
      "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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