



Manage authentication keys (for admins)

ONTAP 9.13.1 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, 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": "-----BEGIN CERTIFICATE-----
\nMIIFrTCCA5WgAwIBAgICEAMwDQYJKoZIhvcNAQELBQAwYDELMAkGA1UEBhMCVVMx\nCzAJBg
NVBAgMAk5DMQwwCgYDVQQHDANSVFAXDzANBgNVBAoMBk5FVEFQUDENMASG\nA1UECwwETlRBUD
EWMBQGA1UEAwNTlRBUC1JTlRFUkNBmjAeFw0yMzAxMTkwOTE4\nMzBaFw0yNDExMzE0MTkw
BaMFcxZAJBgNVBAYTAk1OMQswCQYDVQQIDAJLQTEM\nMAoGA1UEBwwDQkxSMQ0wCwYDVQQKDA
ROVEFQM0wCwYDVQQLDAROVEFQM08wDQYD\nVQDDAZNWU5UQVAggEiMA0GCSqGSIb3DQEBAQ
UAA4IBDwAwggEKAoIBAQDfkwQD\n4kQcInzLQh95eNMXP6AK9DIZm1e5V7350xTiWmrmiqREh
96Asms4RxOHTI4Q1ox\nghn3NugjWy/y9aCao+Uz6nIG8gAP+NIYb3TU/WeGJFKF6fRJgaZxIz
Bjla3x1QQ5\nnrCWZMPuEiKZeBtNyHnoz6g3d5Cz4Ahu2mmHUDbAah25nNuYA9vbroP4GptE4KQ
YQ\n2lKtXnw8UKvyTYBOU3KzM2PP+1htNm31/rGfHx99x1P6x8I8c6xRRQIJfIhHH9n\n8mLk
Elc3SMSerNLIQn8JSd9gly6FyHDF2jsPWdrjTlPvyGen+LNUsBrBgmeyuFvA\nTq0/7lavqoNi
wa4dAgMBAAGjggF4MIIBDDAJBgNVHRMEAjAAMBEGCWGCSAGG+EIB\nAQQEAWIGQDAZBg1ghkgB
hvhCAQ0EJhYkT3BlblNTTCBHZW5lcmF0ZWQgU2VydMvy\nIENlcnRpZmlzYXR1MB0GAlUdDgQW
BBQkJGop1Kmp0D5jkb1SGk3nSGHf5jCBIwyD\nVR0jBIGDMIGAgBQqjApAoQETk23RqM0Fo7u6
0SsmL6FkpGIWYDELMAkGA1UEBhMC\nVVMxZAJBgNVBAgMAk5DMQwwCgYDVQQHDANSVFAXDzAN
BgNVBAoMBk5FVEFQUDEN\nMASGAlUECwwETlRBUDUdEWMBQGA1UEAwNTlRBUC1JTlRFUkNBMyIC
EAAwDgYDVR0P\nAQH/BAQDAGWgMBMGA1UdJQQMMAoGCCsGAQUFBwMBME0GCCsGAQUFBwEBBEEw
PzA9\nnBggrBgEFBQcwAYYxHR0cDovL3Njc3ByMjY5MjY5Mjc4OTAYMS5nZGwvZW5kbGFpLnM1LndG
FwcC5jb206MjU2MDANBgkqhkiG9w0BAQsFAAOCAGFAAAAB3NzaC1yc2EAAAADAQABAAQDfkwQD4kQcInzLQh95eNMXP6AK9DIZm1e5V7350xTiWmrmirmiqREh96Asms4RxOHTI4Q1oxghn3NugjWy/y9aCao+Uz6nIG8gAP+NIYb3TU/WeGJFKF6fRJgaZxIzBjla3x1QQ5rCWZMPuEiKZeBtNyHnoz6g3d5Cz4Ahu2mmHUDbAah25nNuYA9vbroP4GptE4KQYQ2lKtXnw8UKvyTYBOU3KzM2PP+1htNm31/rGfHx99x1P6x8I8c6xRRQIJfIhHH9n8mLkElc3SMSerNLIQn8JSd9gly6FyHDF2jsPWdrjTlPvyGen+LNUsBrBgmeyuFvATq0/7lavqoNiwa4d" }'
```

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": "-----BEGIN CERTIFICATE-----  
\nMIIFrTCCA5WgAwIBAgICEAMwDQYJKoZIhvcNAQELBQAwYDELMAkGA1UEBhMCVVMx\nnMzBAJBgNVBAgMAk5DMQwwCgYDVQQHDANSVFAXDzANBgNVBAoMBk5FVEFQUDEnMA  
Sg\nA1UECwwETlRBUD  
EWMBQGA1UEAwwNTlRBUC1JTlRFUknBMjAeFw0yMzAxMTkwOTE4\nnMzBaFw0yNDAxMjkwOTE4Mz  
BaMFcxZAJBgNVBAYTAklOMQswCQYDVQQIDAJLQTEM\nnMAoGA1UEBwwDQkxSMQ0wCwYDVQQKDA  
ROVEFQM0wCwYDVQQLDAROVEFQM08wDQYD\nnVQDDAZNWU5UQVAwggEiMA0GCSqGSIb3DQEBAQ  
UAA4IBDwAwggEKAAoIBAQDfkwQD\nn4kQcInzLQh95eNMXOP6AK9DIzM1e5V7350xTiWmrmiqREh  
96Asms4RxOHTI4Q1ox\nnghn3NugjWy/y9aCao+Uz6nIG8gAP+NIYb3TU/WeGJFKF6fRjGaZxIz  
Bjla3x1QQ5\nnrCWZMPuEikZeBtNyHnoz6g3d5Cz4Ahu2mmHuDbaah25nNuYA9vbrop4GptE4KQ  
YQ\nn2lKtXnw8UKvyTYBOU3KzM2PP+lhtNmh3l/rgFhx99x1P6x8I8c6xRRQIjfhHH9n\nn8mLk  
Elc3SMSerNLIQn8JSd9gly6FyHDF2jsPWdrjTlPyvGen+LNUsBrBgmeYuFvA\nntq0/7lavqoNi  
wA4dAgMBAAGjggF4MIIBDdAJBgNVHRMEAjAAMBEGCWCgsAGG+EIB\nnAQQEAWIGQDazBglghkgB  
hvhCAQ0EJhYkt3BlblNTTCBHZW5lcmF0ZWR0ZjVudmVynIENlcnRpbm1jYXR1MB0GA1UdDgQW  
BBQkJGop1Kmp0D5jkb1SGk3nSGHf5jCBiwyD\nnVR0jBIGDMIGAgBQqjApAoQETk23RqM0Fo7u6  
0SsmL6FkpGIwYDELMAkGA1UEBhMC\nnVVMxCzAJBgNVBAgMAk5DMQwwCgYDVQQHDANSVFAXDzAN  
BgNVBAoMBk5FVEFQUDE\nnMASGA1UECwwETlRBUD  
EWMBQGA1UEAwwNTlRBUC1JTlRFUknBMjAeFw0yMzAxMTkwOTE4  
nMzBaFw0yNDAxMjkwOTE4Mz  
BaMFcxZAJBgNVBAYTAklOMQswCQYDVQQIDAJLQTEM\nnMAoGA1UEBwwDQkxSMQ0wCwYDVQQKDA  
ROVEFQM0wCwYDVQQLDAROVEFQM08wDQYD\nnVQDDAZNWU5UQVAwggEiMA0GCSqGSIb3DQEBAQ  
UAA4IBDwAwggEKAAoIBAQDfkwQD\nn4kQcInzLQh95eNMXOP6AK9DIzM1e5V7350xTiWmrmiqREh  
96Asms4RxOHTI4Q1oxg  
ghn3NugjWy/y9aCao+Uz6nIG8gAP+NIYb3TU/WeGJFKF6fRj  
GaZxIzBjla3x1QQ5rCWZMPuEikZeBtNyHnoz6g3d5Cz4Ahu2mmHuDbaah25nNuYA9vbrop4Gpt  
E4KQYQ2lKtXnw8UKvyTYBOU3KzM2PP+lhtNmh3l/rgFhx99x1P6x8I8c6xRRQIjfhHH9n8mLk  
Elc3SMSerNLIQn8JSd9gly6FyHDF2jsPWdrjTlPyvGen+LNUsBrBgmeYuFvATq0/7lavqoNi  
wA4d" }'
```

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
sha_fingerprint	string	query	False	Filter by sha_fingerprint
obfuscated_fingerprint	string	query	False	Filter by obfuscated_fingerprint
certificate_details	string	query	False	Filter by certificate_details <ul style="list-style-type: none">• Introduced in: 9.13
public_key	string	query	False	Filter by public_key
owner.uuid	string	query	False	Filter by owner.uuid

Name	Type	In	Required	Description
owner.name	string	query	False	Filter by owner.name
comment	string	query	False	Filter by comment
certificate	string	query	False	Filter by certificate <ul style="list-style-type: none"> • Introduced in: 9.13
certificate_expired	string	query	False	Filter by certificate_expired <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
account.name	string	query	False	Filter by account.name
scope	string	query	False	Filter by scope
index	integer	query	False	Filter by index <ul style="list-style-type: none"> • Max value: 99 • Min value: 0
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"
    }
  },
  "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": "svml",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "public_key": "string",
      "scope": "string",
      "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
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

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
_links	_links	
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.

Name	Type	Description
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"
  },
  "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"
}
```

Response

Status: 201, Created

Headers

Name	Description	Type
Location	Useful for tracking the resource location	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
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	
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).

Name	Type	Description
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

error

Name	Type	Description
arguments	array[error_arguments]	Message arguments
code	string	Error code
message	string	Error message

Name	Type	Description
target	string	The target parameter that caused the error.

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