



## **Manage S3 service users**

ONTAP 9.15.1 REST API reference

NetApp

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# Table of Contents

- Manage S3 service users ..... 1
  - Protocols S3 services svm.uuid users endpoint overview ..... 1
  - Retrieve the SVM configuration for an S3 user ..... 13
  - Create an S3 user configuration ..... 21

# Manage S3 service users

## Protocols S3 services svm.uuid users endpoint overview

### Overview

An S3 user account is created on the S3 server. Buckets that are created for the server are associated with that user (as the owner of the buckets). The creation of the user account involves generating a pair of keys "access" and "secret". These keys are shared with clients (by the administrator out of band) who want to access the S3 server. The access\_key is sent in the request and it identifies the user performing the operation. The client or server never send the secret\_key over the wire. Only the access\_key can be retrieved from a GET operation. The secret\_key along with the access\_key is returned from a POST operation and from a PATCH operation if the administrator needs to regenerate the keys. If the user is part of active-directory, the user name takes the format "user@fully\_qualified\_domain\_name".

### Examples

#### Retrieving S3 user configurations for a particular SVM

```
# The API:
/api/protocols/s3/services/{svm.uuid}/users

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users?fields=*&return_records=true" -H "accept: application/hal+json"

# The response:
{
  "records": [
    {
      "svm": {
        "uuid": "db2ec036-8375-11e9-99e1-0050568e3ed9",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/db2ec036-8375-11e9-99e1-0050568e3ed9"
          }
        }
      },
      "name": "user-1",
      "comment": "S3 user",
      "access_key": "FAKEACCESSKEYFAKEAC1",
      "key_time_to_live": "PT3H5M",
      "key_expiry_time": "2023-11-13T23:28:03+05:30",
      "id": 3,
      "keys": [
```

```

    {
      "id": 1,
      "access_key": "FAKEACCESSKEYFAKEAC1",
      "time_to_live": "PT3H5M",
      "expiry_time": "2023-11-13T23:28:03+05:30"
    },
    {
      "id": 2,
      "access_key": "FAKEACCESSKEYFAKEAC2",
      "time_to_live": "PT6H3M2S",
      "expiry_time": "2023-11-13T23:24:41+05:30"
    }
  ],
  "_links": {
    "self": {
      "href": "/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-1"
    }
  }
},
{
  "svm": {
    "uuid": "db2ec036-8375-11e9-99e1-0050568e3ed9",
    "name": "vs1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/db2ec036-8375-11e9-99e1-0050568e3ed9"
      }
    }
  },
  "name": "user-2",
  "comment": "s3-user",
  "access_key": "C87S021Q59JJAAQNJP7R",
  "id": 2,
  "keys": [
    {
      "id": 1,
      "access_key": "C87S021Q59JJAAQNJP7R",
    }
  ],
  "_links": {
    "self": {
      "href": "/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-2"
    }
  }
}

```

```
    }  
  ],  
  "num_records": 2,  
  "_links": {  
    "self": {  
      "href": "/api/protocols/s3/services/db2ec036-8375-11e9-99e1-  
0050568e3ed9/users?fields=*&return_records=true"  
    }  
  }  
}
```

### Retrieving the user configuration of a specific S3 user

```
# The API:
/api/protocols/s3/services/{svm.uuid}/users/{name}

# The call:
curl -X GET "https://<mgmt-ip>/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-1" -H "accept: application/hal+json"

# The response:
{
  "svm": {
    "uuid": "db2ec036-8375-11e9-99e1-0050568e3ed9",
    "name": "vs1",
    "_links": {
      "self": {
        "href": "/api/svm/svms/db2ec036-8375-11e9-99e1-0050568e3ed9"
      }
    }
  },
  "name": "user-1",
  "comment": "s3-user",
  "access_key": "JJJA3240AD5ZTSHXNC35",
  "key_time_to_live": "P6DT1H5M",
  "key_expiry_time": "2023-02-20T10:04:31Z",
  "id": 3,
  "keys": [
    {
      "id": 1,
      "access_key": "JJJA3240AD5ZTSHXNC35",
      "time_to_live": "PT3H5M",
      "expiry_time": "2023-11-13T23:28:03+05:30"
    },
    {
      "id": 2,
      "access_key": "FAKEACCESSKEYFAKEAC2",
      "time_to_live": "PT6H3M2S",
      "expiry_time": "2023-11-13T23:24:41+05:30"
    }
  ],
  "_links": {
    "self": {
      "href": "/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-1"
    }
  }
}
```

## Creating an S3 user configuration

```
# The API:
/api/protocols/s3/services/{svm.uuid}/users

# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users" -H "accept: application/json" -H "Content-Type: application/json" -d '{"name": "user-1"}'

# The response:
HTTP/1.1 201 Created
Date: Fri, 31 May 2019 09:34:25 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Location: /api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-1
Content-Length: 244
Content-Type: application/json
{
  "num_records": 1,
  "records": [
    {
      "name": "user-1",
      "access_key": "JJJA3240AD5ZTSHXNC36",
      "secret_key": "_n8NAqU3A8TN73698j1uJ2YA7oxZ_Va6q4ETMB47"
    }
  ]
}
```

## Creating an S3 user configuration with key expiration configuration

```
# The API:
/api/protocols/s3/services/{svm.uuid}/users

# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/s3/services/db2ec036-8375-
11e9-99e1-0050568e3ed9/users" -H "accept: application/json" -H "Content-
Type: application/json" -d "{ \"comment\": \"S3 user3\",
\"key_time_to_live\": \"P6DT1H5M\", \"name\": \"user-3\"}"

# The response:
HTTP/1.1 201 Created
Date: Tue, 14 Feb 2023 08:59:31 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-
inline'; style-src 'self' 'unsafe-inline'; img-src 'self' data:; frame-
ancestors: 'self'
Location: /api/protocols/s3/services/6573ac2b-ab66-11ed-b53d-
005056bb4b9b/users/user-3
Content-Length: 337
Content-Type: application/hal+json
Vary: Origin
{
  "num_records": 1,
  "records": [
    {
      "name": "user-3",
      "access_key": "JJJA3240AD5ZTSHXNC35",
      "secret_key": "OXx6J_GkTc94Xx91cYrNBar_OT3BY6lWOHI_HSR5",
      "key_expiry_time": "2023-06-16T12:08:38Z",
      "_links": {
        "self": {
          "href": "/api/protocols/s3/services/6573ac2b-ab66-11ed-b53d-
005056bb4b9b/users/user-3"
        }
      }
    }
  ]
}
```

**Creating an S3 user configuration with a key expiration configuration and where the user is part of Active directory.**



```

# The API:
/api/protocols/s3/services/{svm.uuid}/users

# The call:
curl -X POST "https://<mgmt-ip>/api/protocols/s3/services/db2ec036-8375-
11e9-99e1-0050568e3ed9/users" -H "accept: application/json" -H "Content-
Type: application/json" -d "{ \"comment\": \"S3 user3\",
\"key_time_to_live\": \"P6DT1H5M\", \"name\": \"user-3@domain1.com\"}"

# The response:
HTTP/1.1 201 Created
Date: Tue, 14 Feb 2023 08:59:31 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-
inline'; style-src 'self' 'unsafe-inline'; img-src 'self' data:; frame-
ancestors: 'self'
Location: /api/protocols/s3/services/6573ac2b-ab66-11ed-b53d-
005056bb4b9b/users/user-3%40domain1.com
Content-Length: 337
Content-Type: application/hal+json
Vary: Origin
{
  "num_records": 1,
  "records": [
    {
      "name": "user-3@domain1.com",
      "access_key": "JJJA3240AD5ZTSHXNC35",
      "secret_key": "OXx6J_GkTc94Xx91cYrNBar_OT3BY6lWOHI_HSR5",
      "key_expiry_time": "2023-06-16T12:08:38Z",
      "_links": {
        "self": {
          "href": "/api/protocols/s3/services/6573ac2b-ab66-11ed-b53d-
005056bb4b9b/users/user-3%40domain1.com"
        }
      }
    }
  ]
}

```

## Regenerating first key for a specific S3 user for the specified SVM

**Note that if key\_id is not specified, key with key\_id=1 will be regenerated.**

```
# The API:
/api/protocols/s3/services/{svm.uuid}/users/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-2?regenerate_keys=true" -H "accept: application/hal+json" -H "Content-Type: application/json" -d "{}"

# The response:
HTTP/1.1 200 OK
Date: Fri, 31 May 2019 09:55:45 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 391
Content-Type: application/hal+json
{
  "num_records": 1,
  "records": [
    {
      "name": "user-2",
      "access_key": "KEOYV21G156K8AB4ZISH",
      "secret_key": "au__5oyYSs3c_QtoD5FH9f9rL888rwgD6fQS8chl",
      "_links": {
        "self": {
          "href": "/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-2"
        }
      }
    }
  ]
}
```

**Regenerating second key for a specific S3 user for the specified SVM**

```
# The API:
/api/protocols/s3/services/{svm.uuid}/users/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-2?regenerate_keys=true" -H "accept: application/hal+json" -H "Content-Type: application/json" -d "{\"key_id\": \"2\" }"

# The response:
HTTP/1.1 200 OK
Date: Fri, 31 May 2019 09:55:45 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 391
Content-Type: application/hal+json
{
  "num_records": 1,
  "records": [
    {
      "name": "user-2",
      "access_key": "FAKEACCESSKEYFAKEAC1",
      "secret_key": "<secret_key_here>",
      "_links": {
        "self": {
          "href": "/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-2"
        }
      }
    }
  ]
}
```

**Regenerating keys and setting new expiry configuration for a specific S3 user for the specified SVM**

```

# The API:
/api/protocols/s3/services/{svm.uuid}/users/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-2?regenerate_keys=true" -H "accept: application/hal+json" -H "Content-Type: application/json" -d '{"key_time_to_live": "PT6H3M"}'

# The response:
HTTP/1.1 200 OK
Date: Fri, 31 May 2019 09:55:45 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 391
Content-Type: application/hal+json
{
  "num_records": 1,
  "records": [
    {
      "name": "user-2",
      "access_key": "FAKEACCESSKEYFAKEAC1",
      "secret_key": "<secret_key_here>",
      "key_expiry_time": "2023-06-16T16:19:06Z",
      "_links": {
        "self": {
          "href": "/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-2"
        }
      }
    }
  ]
}

```

**Creating another key for a specific S3 user for the specified SVM using key\_id '2'**

```

# The API:
/api/protocols/s3/services/{svm.uuid}/users/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-2?regenerate_keys=true" -H "accept: application/hal+json" -H "Content-Type: application/json" -d "{\"key_time_to_live\": \"PT6H3M\", \"key_id\": \"2\" }"

# The response:
HTTP/1.1 200 OK
Date: Fri, 31 May 2019 09:55:45 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Length: 391
Content-Type: application/hal+json
{
  "num_records": 1,
  "records": [
    {
      "name": "user-2",
      "access_key": "FAKEACCESSKEYFAKEAC1",
      "secret_key": "<secret_key_here>",
      "key_expiry_time": "2023-06-16T16:19:06Z",
      "_links": {
        "self": {
          "href": "/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-2"
        }
      }
    }
  ]
}

```

### Deleting first key for a specific S3 user for a specified SVM

Note that if `key_id` is not specified, key with `key_id=1` will be deleted.

```
# The API:
/api/protocols/s3/services/{svm.uuid}/users/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-2?delete_keys=true" -H "accept: application/hal+json" -H "Content-Type: application/json" -d "{ }"

# The response:
HTTP/1.1 200 OK
Date: Wed, 08 Feb 2023 13:40:04 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-inline'; style-src 'self' 'unsafe-inline'; img-src 'self' data:; frame-ancestors: 'self'
Content-Length: 3
Content-Type: application/hal+json
Vary: Origin
{
}
```

### **Deleting second key for a specific S3 user for a specified SVM**

```

# The API:
/api/protocols/s3/services/{svm.uuid}/users/{name}

# The call:
curl -X PATCH "https://<mgmt-ip>/api/protocols/s3/services/db2ec036-8375-11e9-99e1-0050568e3ed9/users/user-2?delete_keys=true" -H "accept: application/hal+json" -H "Content-Type: application/json" -d '{"key_id": "2"}'

# The response:
HTTP/1.1 200 OK
Date: Wed, 08 Feb 2023 13:40:04 GMT
Server: libzapid-httpd
X-Content-Type-Options: nosniff
Cache-Control: no-cache,no-store,must-revalidate
Content-Security-Policy: default-src 'self'; script-src 'self' 'unsafe-inline'; style-src 'self' 'unsafe-inline'; img-src 'self' data:; frame-ancestors: 'self'
Content-Length: 3
Content-Type: application/hal+json
Vary: Origin
{
}

```

### Deleting the specified S3 user configuration for a specified SVM

```

# The API:
/api/protocols/s3/services/{svm.uuid}/users/{name}

# The call:
curl -X DELETE "https://<mgmt-ip>/api/protocols/s3/services/03ce5c36-f269-11e8-8852-0050568e5298/users/user-2" -H "accept: application/json"

```

## Retrieve the SVM configuration for an S3 user

GET /protocols/s3/services/{svm.uuid}/users

**Introduced In:** 9.7

Retrieves the S3 user's SVM configuration.

### Related ONTAP commands

- vserver object-store-server user show

## Learn more

- [DOC /protocols/s3/services/{svm.uuid}/users](#)

## Parameters

Name	Type	In	Required	Description
comment	string	query	False	Filter by comment <ul style="list-style-type: none"><li>• maxLength: 256</li><li>• minLength: 0</li></ul>
key_expiry_time	string	query	False	Filter by key_expiry_time <ul style="list-style-type: none"><li>• Introduced in: 9.14</li></ul>
access_key	string	query	False	Filter by access_key
svm.name	string	query	False	Filter by svm.name
name	string	query	False	Filter by name <ul style="list-style-type: none"><li>• maxLength: 64</li><li>• minLength: 1</li></ul>
key_time_to_live	string	query	False	Filter by key_time_to_live <ul style="list-style-type: none"><li>• Introduced in: 9.14</li></ul>
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.
max_records	integer	query	False	Limit the number of records returned.



Name	Type	In	Required	Description
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>
return_timeout	integer	query	False	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. <ul style="list-style-type: none"> <li>• Max value: 120</li> <li>• Min value: 0</li> <li>• Default value: 1</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="#">collection_links</a>	
num_records	integer	Number of records
records	array[s3_user]	

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "num_records": 1,
  "records": [
    {
      "access_key": "HJAKU28M3SXTE2UXUACV",
      "comment": "S3 user",
      "key_expiry_time": "2023-12-31 19:00:00 -0500",
      "key_id": 1,
      "key_time_to_live": "PT6H3M",
      "keys": [
        {
          "access_key": "HJAKU28M3SXTE2UXUACV",
          "expiry_time": "2023-12-31 19:00:00 -0500",
          "id": 1,
          "time_to_live": "PT6H3M"
        }
      ],
      "name": "user-1",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      }
    }
  ]
}
```

## 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	

collection\_links

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

keys

Specifies a key associated with an S3 user. At most only two keys can be associated with a user.   
<private>This is a private object in ONTAP 9.15.1 as the multi-key feature is dark in this release.&lt;\private&gt;</private>

Name	Type	Description
access_key	string	Specifies the access key for the user.
expiry_time	string	Specifies the date and time after which keys expire and are no longer valid.
id	integer	Specifies an S3 user key identifier. Each user can only have a maximum of two keys. The key_id can either be '1' or '2'.

Name	Type	Description
time_to_live	string	<p>Indicates the time period from when this parameter is specified:</p> <ul style="list-style-type: none"> <li>• when creating or modifying a user or</li> <li>• when the user keys were last regenerated, after which the user keys expire and are no longer valid.</li> <li>• Valid format is: 'PnDTnHnMnS PnW'. For example, P2DT6H3M10S specifies a time period of 2 days, 6 hours, 3 minutes, and 10 seconds.</li> <li>• If the value specified is '0' seconds, then the keys do not expire.</li> </ul>

#### \_links

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

#### svm

SVM, applies only to SVM-scoped objects.

Name	Type	Description
<u>_links</u>	<a href="#">_links</a>	
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.

#### s3\_user

This is a container of S3 users.

Name	Type	Description
access_key	string	Specifies the access key for the user.
comment	string	Can contain any additional information about the user being created or modified.
key_expiry_time	string	Specifies the date and time after which keys expire and are no longer valid.
key_id	integer	Specifies the identifier of an S3 user key that needs to be generated or deleted. The key_id can either be '1' or '2'.
key_time_to_live	string	Indicates the time period from when this parameter is specified: <ul style="list-style-type: none"> <li>• when creating or modifying a user or</li> <li>• when the user keys were last regenerated, after which the user keys expire and are no longer valid.</li> <li>• Valid format is: 'PnDTnHnMnS PnW'. For example, P2DT6H3M10S specifies a time period of 2 days, 6 hours, 3 minutes, and 10 seconds.</li> <li>• If the value specified is '0' seconds, then the keys won't expire.</li> </ul>
keys	array[keys]	Specifies the keys associated with an S3 User.
name	string	Specifies the name of the user. A user name length can range from 1 to 64 characters and can only contain the following combination of characters 0-9, A-Z, a-z, "_", "+", "=", ",", ".", "@", and "-".
svm	svm	SVM, applies only to SVM-scoped objects.

#### error\_arguments

Name	Type	Description
code	string	Argument code
message	string	Message argument

#### returned\_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 an S3 user configuration

POST /protocols/s3/services/{svm.uuid}/users

**Introduced In:** 9.7

Creates the S3 user configuration.

### Important notes

- Each SVM can have one or more user configurations.
- If the user is a member of Active directory, the user name takes the format "user@FQDN". For example, "user1@domain1.com".
- If user creation is successful, a user access\_key and secret\_key is returned as part of the response.
- If user keys have expiry configuration, then "key\_expiry\_time" is also returned as part of the response.

### Required properties

- svm.uuid - Existing SVM in which to create the user configuration.
- name - User name that is to be created.

### Default property values

- comment - ""

## Related ONTAP commands

- `vserver object-store-server user create`

## Learn more

- [DOC /protocols/s3/services/{svm.uuid}/users](#)

## Parameters

Name	Type	In	Required	Description
return_records	boolean	query	False	The default is false. If set to true, the records are returned. <ul style="list-style-type: none"><li>• Default value:</li></ul>
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

## Request Body

Name	Type	Description
access_key	string	Specifies the access key for the user.
comment	string	Can contain any additional information about the user being created or modified.
key_expiry_time	string	Specifies the date and time after which keys expire and are no longer valid.
key_id	integer	Specifies the identifier of an S3 user key that needs to be generated or deleted. The key_id can either be '1' or '2'.



Name	Type	Description
key_time_to_live	string	<p>Indicates the time period from when this parameter is specified:</p> <ul style="list-style-type: none"> <li>• when creating or modifying a user or</li> <li>• when the user keys were last regenerated, after which the user keys expire and are no longer valid.</li> <li>• Valid format is: 'PnDTnHnMnS PnW'. For example, P2DT6H3M10S specifies a time period of 2 days, 6 hours, 3 minutes, and 10 seconds.</li> <li>• If the value specified is '0' seconds, then the keys won't expire.</li> </ul>
keys	array[keys]	Specifies the keys associated with an S3 User.
name	string	Specifies the name of the user. A user name length can range from 1 to 64 characters and can only contain the following combination of characters 0-9, A-Z, a-z, "_", "+", "=", ";", ":", "@", and "-".
svm	svm	SVM, applies only to SVM-scoped objects.

## Example request

```
{
  "access_key": "HJAKU28M3SXTE2UXUACV",
  "comment": "S3 user",
  "key_expiry_time": "2023-12-31 19:00:00 -0500",
  "key_id": 1,
  "key_time_to_live": "PT6H3M",
  "keys": [
    {
      "access_key": "HJAKU28M3SXTE2UXUACV",
      "expiry_time": "2023-12-31 19:00:00 -0500",
      "id": 1,
      "time_to_live": "PT6H3M"
    }
  ],
  "name": "user-1",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

## Response

Status: 201, Created

Name	Type	Description
num_records	integer	Number of records
records	array[s3_service_user_post_response]	

## Example response

```
{
  "num_records": 1,
  "records": [
    {
      "_links": {
        "next": {
          "href": "/api/resourcelink"
        },
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "access_key": "HJAKU28M3SXTE2UXUACV",
      "key_expiry_time": "2023-12-31 19:00:00 -0500",
      "name": "user-1",
      "secret_key": "BcA_HX6If45811hnx3n1TCO3mg4roCXG0ddYf_cJ"
    }
  ]
}
```

## Headers

Name	Description	Type
Location	Useful for tracking the resource location	string

## Error

Status: Default

## ONTAP Error Response Codes

Error Code	Description
92405787	User name "User#1" contains invalid characters. Valid characters for a user name are 0-9, A-Z, a-z, "_", "+", "=", ",", ".", "@", and "-".
	92405788

Error Code	Description
User name "User012345678901234567890123456789012345678901234567890123456789012345" is not valid. User names must have between 1 and 64 characters.	
92405791	Failed to create access-key and secret-key.
	92405817
SVM "<non-data SVM="" name="">" is not a data SVM. Specify a data SVM. //end row //start row	//end row //start row
92406083 //end row //start row	The maximum supported value for user key expiry configuration is "1095" days. //end row //start row
//end row //start row	92406096 //end row //start row
The user does not have permission to access the requested resource "{0}". //end row //start row	//end row //start row
92406097 //end row //start row	Internal error. The operation configuration is not correct. //end row //start row
//end row //start row	92406196 //end row //start row
The specified value for the "key_time_to_live" field cannot be greater than the maximum limit specified for the "max_key_time_to_live" field in the object store server. //end row //start row	//end row //start row
92406197 //end row //start row	Object store user "user-2" must have a non-zero value for the "key_time_to_live" field because the maximum limit specified for the "max_key_time_to_live" field in the object store server is not zero. //end row

|Name |Type |Description

|error |returned\_error a|

```
.Example error [%collapsible%closed] ==== [source,json,subs=+macros] { "error": { "arguments": [ { "code": "string", "message": "string" } ], "code": "4", "message": "entry doesn't exist", "target": "uuid" } } ====
== Definitions
[.api-def-first-level] .See Definitions [%collapsible%closed] ==== [#keys] [.api-collapsible-fifth-title] keys
Specifies a key associated with an S3 user. At most only two keys can be associated with a user.
<private>This is a private object in ONTAP 9.15.1 as the multi-key feature is dark in this release.&lt;\private&gt;</private>
[cols=3*,options=header]
```

|Name |Type |Description

|access\_key |string a|Specifies the access key for the user.

|expiry\_time |string a|Specifies the date and time after which keys expire and are no longer valid.

|id |integer a|Specifies an S3 user key identifier. Each user can only have a maximum of two keys. The key\_id can either be '1' or '2'.

|time\_to\_live |string a|Indicates the time period from when this parameter is specified:

- when creating or modifying a user or
- when the user keys were last regenerated, after which the user keys expire and are no longer valid.
- Valid format is: 'PnDTnHnMnS\|PnW'. For example, P2DT6H3M10S specifies a time period of 2 days, 6 hours, 3 minutes, and 10 seconds.
- If the value specified is '0' seconds, then the keys do not expire.

```
[#href] [.api-collapsible-fifth-title] href
```

```
[cols=3*,options=header]
```

|Name |Type |Description

|href |string a|

```
[#_links] [.api-collapsible-fifth-title] _links
```

```
[cols=3*,options=header]
```

|Name |Type |Description

|self |[href](#) a|

```
[#svm] [.api-collapsible-fifth-title] svm
```

SVM, applies only to SVM-scoped objects.

```
[cols=3*,options=header]
```

|Name |Type |Description

|\_links |[\\_links](#) a|

|name |string a|The name of the SVM. This field cannot be specified in a PATCH method.

|uuid |string a|The unique identifier of the SVM. This field cannot be specified in a PATCH method.

```
[#s3_user] [.api-collapsible-fifth-title] s3_user
```

This is a container of S3 users.

```
[cols=3*,options=header]
```

|Name |Type |Description

|access\_key |string a|Specifies the access key for the user.

|comment |string a|Can contain any additional information about the user being created or modified.

|key\_expiry\_time |string a|Specifies the date and time after which keys expire and are no longer valid.

|key\_id |integer a|Specifies the identifier of an S3 user key that needs to be generated or deleted. The key\_id can either be '1' or '2'.

|key\_time\_to\_live |string a|Indicates the time period from when this parameter is specified:

- when creating or modifying a user or
- when the user keys were last regenerated, after which the user keys expire and are no longer valid.
- Valid format is: 'PnDTnHnMnS\|PnW'. For example, P2DT6H3M10S specifies a time period of 2 days, 6 hours, 3 minutes, and 10 seconds.
- If the value specified is '0' seconds, then the keys won't expire.

|keys |array[[keys](#)] a|Specifies the keys associated with an S3 User.

|name |string a|Specifies the name of the user. A user name length can range from 1 to 64 characters and can only contain the following combination of characters 0-9, A-Z, a-z, "\_", "+", "=", ",", ".", "@", and "-".

|svm |[svm](#) a|SVM, applies only to SVM-scoped objects.

```
[#collection_links] [.api-collapsible-fifth-title] collection_links
```

```
[cols=3*,options=header]
```

|Name |Type |Description

|next |[href](#) a|

|self |[href](#) a|

```
[#s3_service_user_post_response] [.api-collapsible-fifth-title] s3_service_user_post_response
```

```
[cols=3*,options=header]
```

|Name |Type |Description

|\_links |[collection\\_links](#) a|

|access\_key |string a|Specifies the access key for the user.

|key\_expiry\_time |string a|Specifies the date and time after which the keys expire and are no longer valid.

|name |string a|The name of the user.

|secret\_key |string a|Specifies the secret key for the user.

[#error\_arguments] [.api-collapsible-fifth-title] error\_arguments

[cols=3\*,options=header]

|Name |Type |Description

|code |string a|Argument code

|message |string a|Message argument

[#returned\_error] [.api-collapsible-fifth-title] returned\_error

[cols=3\*,options=header]

|Name |Type |Description

|arguments |array[[error\\_arguments](#)] a|Message arguments

|code |string a|Error code

|message |string a|Error message

|target |string a|The target parameter that caused the error.

====

= Delete an S3 user configuration

DELETE /protocols/s3/services/{svm.uuid}/users/{name}

**Introduced In:** 9.7

Deletes the S3 user configuration of an SVM.

== Related ONTAP commands

\* `vserver object-store-server user delete`

== Learn more

\* [DOC /protocols/s3/services/{svm.uuid}/users](#)

== Parameters

[cols=5\*,options=header]

|Name |Type |In |Required |Description

|name |string |path |True a|User name

|svm.uuid |string |path |True a|UUID of the SVM to which this object belongs.

== Response

```
` Status: 200, Ok `
```

== Error

```
` Status: Default, Error `
```

[cols=3\*,options=header]

|Name |Type |Description

|error |[returned\\_error](#) a|

```
.Example error [%collapsible%closed] ===== [source,json,subs=+macros] { "error": { "arguments": [ { "code":  
"string", "message": "string" } ], "code": "4", "message": "entry doesn't exist", "target": "uuid" } } =====
```

== Definitions

```
[.api-def-first-level] .See Definitions [%collapsible%closed] ===== [#error_arguments] [.api-collapsible-fifth-title]  
error_arguments
```

[cols=3\*,options=header]

|Name |Type |Description

|code |string a|Argument code

|message |string a|Message argument

```
[#returned_error] [.api-collapsible-fifth-title] returned_error
```

[cols=3\*,options=header]

|Name |Type |Description

|arguments |array[[error\\_arguments](#)] a|Message arguments

|code |string a|Error code

|message |string a|Error message

|target |string a|The target parameter that caused the error.



====

= Retrieve the S3 user configuration for an SVM

GET /protocols/s3/services/{svm.uuid}/users/{name}

**Introduced In:** 9.7

Retrieves the S3 user configuration of an SVM.

== Related ONTAP commands

\* `vserver object-store-server user show`

== Learn more

\* [DOC /protocols/s3/services/{svm.uuid}/users](#)

== Parameters

[cols=5\*,options=header]

Name	Type	In	Required	Description
------	------	----	----------	-------------

name	string	path	True	a User name
------	--------	------	------	-------------

svm.uuid	string	path	True	a UUID of the SVM to which this object belongs.
----------	--------	------	------	---

fields	array[string]	query	False	a Specify the fields to return.
--------	---------------	-------	-------	---------------------------------

== Response

```
` Status: 200, Ok `
```

[cols=3\*,options=header]

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

access_key	string	a Specifies the access key for the user.
------------	--------	--

comment	string	a Can contain any additional information about the user being created or modified.
---------	--------	--

key_expiry_time	string	a Specifies the date and time after which keys expire and are no longer valid.
-----------------	--------	--

key_id	integer	a Specifies the identifier of an S3 user key that needs to be generated or deleted. The key_id can either be '1' or '2'.
--------	---------	--

key_time_to_live	string	a Indicates the time period from when this parameter is specified:
------------------	--------	--

- when creating or modifying a user or
- when the user keys were last regenerated, after which the user keys expire and are no longer valid.
- Valid format is: 'PnDTnHnMnS|PnW'. For example, P2DT6H3M10S specifies a time period of 2 days, 6 hours, 3 minutes, and 10 seconds.

- If the value specified is '0' seconds, then the keys won't expire.

`|keys |array[keys] a|`Specifies the keys associated with an S3 User.

`|name |string a|`Specifies the name of the user. A user name length can range from 1 to 64 characters and can only contain the following combination of characters 0-9, A-Z, a-z, "\_", "+", "=", ",", ".", "@", and "-".

`|svm |svm a|`SVM, applies only to SVM-scoped objects.

```
.Example response [%collapsible%closed] ===== [source,json,subs=+macros] { "access_key":
"HJAKU28M3SXTE2UXUACV", "comment": "S3 user", "key_expiry_time": "2023-12-31 19:00:00 -0500",
"key_id": 1, "key_time_to_live": "PT6H3M", "keys": [ { "access_key": "HJAKU28M3SXTE2UXUACV",
"expiry_time": "2023-12-31 19:00:00 -0500", "id": 1, "time_to_live": "PT6H3M" } ], "name": "user-1", "svm": {
"_links": { "self": { "href": "/api/resourcelink" } }, "name": "svm1", "uuid": "02c9e252-41be-11e9-81d5-
00a0986138f7" } } =====
```

== Error

```
` Status: Default, Error `
```

[cols=3\*,options=header]

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

<code> error  <a href="#">returned_error</a> a </code>		
--	--	--

```
.Example error [%collapsible%closed] ===== [source,json,subs=+macros] { "error": { "arguments": [ { "code":
"string", "message": "string" } ], "code": "4", "message": "entry doesn't exist", "target": "uuid" } } =====
```

== Definitions

[.api-def-first-level] .See Definitions [%collapsible%closed] ===== [#keys] [.api-collapsible-fifth-title] keys

Specifies a key associated with an S3 user. At most only two keys can be associated with a user.

<private>This is a private object in ONTAP 9.15.1 as the multi-key feature is dark in this release.&lt;\private&gt;</private>

[cols=3\*,options=header]

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

<code> access_key  string a </code>		Specifies the access key for the user.
-------------------------------------	--	--

<code> expiry_time  string a </code>		Specifies the date and time after which keys expire and are no longer valid.
--------------------------------------	--	--

<code> id  integer a </code>		Specifies an S3 user key identifier. Each user can only have a maximum of two keys. The <code>key_id</code> can either be '1' or '2'.
------------------------------	--	---

<code> time_to_live  string a </code>		Indicates the time period from when this parameter is specified:
---------------------------------------	--	--

- when creating or modifying a user or
- when the user keys were last regenerated, after which the user keys expire and are no longer valid.
- Valid format is: 'PnDTnHnMnS|PnW'. For example, P2DT6H3M10S specifies a time period of 2 days, 6

hours, 3 minutes, and 10 seconds.

- If the value specified is '0' seconds, then the keys do not expire.

```
[#href] [.api-collapsible-fifth-title] href
```

```
[cols=3*,options=header]
```

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

href	string	a
------	--------	---

```
[#_links] [.api-collapsible-fifth-title] _links
```

```
[cols=3*,options=header]
```

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

self	href	a
------	------	---

```
[#svm] [.api-collapsible-fifth-title] svm
```

SVM, applies only to SVM-scoped objects.

```
[cols=3*,options=header]
```

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

_links	_links	a
--------	--------	---

name	string	a The name of the SVM. This field cannot be specified in a PATCH method.
------	--------	--

uuid	string	a The unique identifier of the SVM. This field cannot be specified in a PATCH method.
------	--------	---

```
[#error_arguments] [.api-collapsible-fifth-title] error_arguments
```

```
[cols=3*,options=header]
```

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

code	string	a Argument code
------	--------	-----------------

message	string	a Message argument
---------	--------	--------------------

```
[#returned_error] [.api-collapsible-fifth-title] returned_error
```

```
[cols=3*,options=header]
```

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

arguments	array	[error_arguments] a Message arguments
-----------	-------	---------------------------------------

code	string	a Error code
------	--------	--------------

|message |string a|Error message

|target |string a|The target parameter that caused the error.

```
====

= Update an S3 user configuration

PATCH /protocols/s3/services/{svm.uuid}/users/{name}

Introduced In: 9.7

Updates the S3 user configuration of an SVM.

== Important notes

* User access_key and secret_key pair can be regenerated using the PATCH operation. * User access_key and secret_key is returned in a PATCH operation if the "regenerate_keys" field is specified as true. * If "regenerate_keys" is true and user keys have expiry configuration, then "key_expiry_time" is also returned as part of response. * User access_key and secret_key pair can be deleted using the PATCH operation.

== Recommended optional properties

* regenerate_keys - Specifies if secret_key and access_key need to be regenerated. * delete_keys - Specifies if secret_key and access_key need to be deleted. * comment - Any information related to the S3 user.

== Related ONTAP commands

* vserver object-store-server user show * vserver object-store-server user regenerate-keys * vserver object-store-server user delete-keys

== Learn more

* DOC /protocols/s3/services/{svm.uuid}/users

== Parameters

[cols=5*,options=header]
```

|Name |Type |In |Required |Description

|name |string |path |True a|User name

|regenerate\_keys |boolean |query |False a|Specifies whether or not to regenerate the user keys.

- Default value:

|delete\_keys |boolean |query |False a|Specifies whether or not to delete the user keys.

- Introduced in: 9.14
- Default value:

|svm.uuid |string |path |True a|UUID of the SVM to which this object belongs.

== Request Body

[cols=3\*,options=header]

|Name |Type |Description

|access\_key |string a|Specifies the access key for the user.

|comment |string a|Can contain any additional information about the user being created or modified.

|key\_expiry\_time |string a|Specifies the date and time after which keys expire and are no longer valid.

|key\_id |integer a|Specifies the identifier of an S3 user key that needs to be generated or deleted. The key\_id can either be '1' or '2'.

|key\_time\_to\_live |string a|Indicates the time period from when this parameter is specified:

- when creating or modifying a user or
- when the user keys were last regenerated, after which the user keys expire and are no longer valid.
- Valid format is: 'PnDTnHnMnS|PnW'. For example, P2DT6H3M10S specifies a time period of 2 days, 6 hours, 3 minutes, and 10 seconds.
- If the value specified is '0' seconds, then the keys won't expire.

|keys |array[[keys](#)] a|Specifies the keys associated with an S3 User.

|name |string a|Specifies the name of the user. A user name length can range from 1 to 64 characters and can only contain the following combination of characters 0-9, A-Z, a-z, "\_", "+", "=", ";", ":", "@", and "-".

|svm |[svm](#) a|SVM, applies only to SVM-scoped objects.

```
.Example request [%collapsible%closed] ===== [source,json,subs=+macros] { "access_key":  
"HJAKU28M3SXTE2UXUACV", "comment": "S3 user", "key_expiry_time": "2023-12-31 19:00:00 -0500",  
"key_id": 1, "key_time_to_live": "PT6H3M", "keys": [ { "access_key": "HJAKU28M3SXTE2UXUACV",  
"expiry_time": "2023-12-31 19:00:00 -0500", "id": 1, "time_to_live": "PT6H3M" } ], "name": "user-1", "svm": {  
"_links": { "self": { "href": "/api/resourcelink" } }, "name": "svm1", "uuid": "02c9e252-41be-11e9-81d5-  
00a0986138f7" } } =====
```

== Response

```
` Status: 200, Ok `
```

[cols=3\*,options=header]

|Name |Type |Description

|num\_records |integer a|Number of records

|records |array[[s3\\_service\\_user\\_post\\_response](#)] a|

```
.Example response [%collapsible%closed] ==== [source,json,subs=+macros] { "num_records": 1, "records": [
{ "_links": { "next": { "href": "/api/resourcelink" }, "self": { "href": "/api/resourcelink" } }, "access_key":
"HJAKU28M3SXTE2UXUACV", "key_expiry_time": "2023-12-31 19:00:00 -0500", "name": "user-1",
"secret_key": "BcA_HX6lf458llhnx3n1TCO3mg4roCXG0ddYf_cJ" } ] } ====
```

== Error

```
` Status: Default `
```

ONTAP Error Response Codes [cols=2\*,options=header]

Error Code	Description
92405792	Failed to regenerate access-key and secret-key for user.
92406082	Cannot perform "regenerate_keys" and "delete_keys" operations simultaneously on an S3 user.
92406081	The "regenerate_keys" operation on S3 User "user-2" in SVM "vs1" succeeded. However, modifying all of the other S3 user properties failed. Reason: resource limit exceeded. Retry the operation again without specifying the "regenerate_keys" parameter.
92406080	Cannot delete root user keys because there exists at least one S3 SnapMirror relationship that is using these keys.
92406083	The maximum supported value for user key expiry configuration is "1095" days.
92406088	The "key_time_to_live" parameter can only be used when the "regenerate_keys" operation is performed.
92406096	The user does not have permission to access the requested resource "{0}".
92406097	Internal error. The operation configuration is not correct.
92406108	The "key_id" field must be used with either the "regenerate_keys" or "delete_keys" operation.
92406196	The specified value for the "key_time_to_live" field cannot be greater than the maximum limit specified for the "max_key_time_to_live" field in the object store server.
92406197	Object store user "user-2" must have a non-zero value for the "key_time_to_live" field because the maximum limit specified for the "max_key_time_to_live" field in the object store server is not zero.

[cols=3\*,options=header]

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

error	returned_error	a
-------	----------------	---

```
.Example error [%collapsible%closed] ==== [source,json,subs=+macros] { "error": { "arguments": [ { "code":
"string", "message": "string" } ], "code": "4", "message": "entry doesn't exist", "target": "uuid" } } ====
```

== Definitions

[.api-def-first-level] .See Definitions [%collapsible%closed] ==== [#keys] [.api-collapsible-fifth-title] keys

Specifies a key associated with an S3 user. At most only two keys can be associated with a user.

<private>This is a private object in ONTAP 9.15.1 as the multi-key feature is dark in this release.&lt;\private&gt;</private>

[cols=3\*,options=header]

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

access_key	string	a	Specifies the access key for the user.
------------	--------	---	--

|expiry\_time |string a|Specifies the date and time after which keys expire and are no longer valid.

|id |integer a|Specifies an S3 user key identifier. Each user can only have a maximum of two keys. The key\_id can either be '1' or '2'.

|time\_to\_live |string a|Indicates the time period from when this parameter is specified:

- when creating or modifying a user or
- when the user keys were last regenerated, after which the user keys expire and are no longer valid.
- Valid format is: 'PnDTnHnMnS\|PnW'. For example, P2DT6H3M10S specifies a time period of 2 days, 6 hours, 3 minutes, and 10 seconds.
- If the value specified is '0' seconds, then the keys do not expire.

```
[#href] [.api-collapsible-fifth-title] href
```

```
[cols=3*,options=header]
```

|Name |Type |Description

|href |string a|

```
[#_links] [.api-collapsible-fifth-title] _links
```

```
[cols=3*,options=header]
```

|Name |Type |Description

|self |[href](#) a|

```
[#svm] [.api-collapsible-fifth-title] svm
```

SVM, applies only to SVM-scoped objects.

```
[cols=3*,options=header]
```

|Name |Type |Description

[\_links |[\\_links](#) a|

|name |string a|The name of the SVM. This field cannot be specified in a PATCH method.

|uuid |string a|The unique identifier of the SVM. This field cannot be specified in a PATCH method.

```
[#s3_user] [.api-collapsible-fifth-title] s3_user
```

This is a container of S3 users.

```
[cols=3*,options=header]
```

|Name |Type |Description

|access\_key |string a|Specifies the access key for the user.

|comment |string a|Can contain any additional information about the user being created or modified.

|key\_expiry\_time |string a|Specifies the date and time after which keys expire and are no longer valid.

|key\_id |integer a|Specifies the identifier of an S3 user key that needs to be generated or deleted. The key\_id can either be '1' or '2'.

|key\_time\_to\_live |string a|Indicates the time period from when this parameter is specified:

- when creating or modifying a user or
- when the user keys were last regenerated, after which the user keys expire and are no longer valid.
- Valid format is: 'PnDTnHnMnS\|PnW'. For example, P2DT6H3M10S specifies a time period of 2 days, 6 hours, 3 minutes, and 10 seconds.
- If the value specified is '0' seconds, then the keys won't expire.

|keys |array[[keys](#)] a|Specifies the keys associated with an S3 User.

|name |string a|Specifies the name of the user. A user name length can range from 1 to 64 characters and can only contain the following combination of characters 0-9, A-Z, a-z, "\_", "+", "=", ",", ".", "@", and "-".

|svm |[svm](#) a|SVM, applies only to SVM-scoped objects.

```
[#collection_links] [.api-collapsible-fifth-title] collection_links
```

```
[cols=3*,options=header]
```

|Name |Type |Description

|next |[href](#) a|

|self |[href](#) a|

```
[#s3_service_user_post_response] [.api-collapsible-fifth-title] s3_service_user_post_response
```

```
[cols=3*,options=header]
```

|Name |Type |Description

|\_links |[collection\\_links](#) a|

|access\_key |string a|Specifies the access key for the user.

|key\_expiry\_time |string a|Specifies the date and time after which the keys expire and are no longer valid.

|name |string a|The name of the user.

|secret\_key |string a|Specifies the secret key for the user.

```
[#error_arguments] [.api-collapsible-fifth-title] error_arguments
```

```
[cols=3*,options=header]
```



|Name |Type |Description

|code |string a|Argument code

|message |string a|Message argument

```
[#returned_error] [.api-collapsible-fifth-title] returned_error
```

```
[cols=3*,options=header]
```

|Name |Type |Description

|arguments |array[[error\\_arguments](#)] a|Message arguments

|code |string a|Error code

|message |string a|Error message

|target |string a|The target parameter that caused the error.

====

:leveloffset: -1

:leveloffset: -1

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