Manage S3 service users

REST API reference

NetApp
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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": "<AWS-ACCESS-KEY-ID>",
    "key_time_to_live": "PT3H5M",
    "key_expiry_time": "2023-11-13T23:28:03+05:30",
    "id": 3,
    "keys": [
```

```
      {
        "id": 1,
        "access_key": "<AWS-ACCESS-KEY-ID>",
        "time_to_live": "PT3H5M",
        "expiry_time": "2023-11-13T23:28:03+05:30"
      },
      {
        "id": 2,
        "access_key": "<AWS-ACCESS-KEY-ID>",
        "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": "<AWS-ACCESS-KEY-ID>",
    "id": 2,
    "keys": [
      {
        "id": 1,
        "access_key": "<AWS-ACCESS-KEY-ID>",
      }
    ],
    "_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": "<AWS-ACCESS-KEY-ID>",
"key_time_to_live": "P6DT1H5M",
"key_expiry_time": "2023-02-20T10:04:31Z",
"id": 3,
"keys": [
  {
    "id": 1,
    "access_key": "<AWS-ACCESS-KEY-ID>",
    "time_to_live": "PT3H5M",
    "expiry_time": "2023-11-13T23:28:03+05:30"
  },
  {
    "id": 2,
    "access_key": "<AWS-ACCESS-KEY-ID>",
    "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": "<AWS-ACCESS-KEY-ID>",
    "secret_key": "<AWS-SECRET-ACCESS-KEY>"
  }
]
}
```

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": "<AWS-ACCESS-KEY-ID>",
    "secret_key": "<AWS-SECRET-ACCESS-KEY>",
    "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 user keys specified

```
# 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 "{  \"access_key\": \"<AWS-ACCESS-KEY-ID>\",
\"comment\": \"S3 user\",  \"key_time_to_live\": \"PT6H3M\",  \"name\":
\"user-test\",  \"secret_key\": \"<AWS-SECRET-ACCESS-KEY>\"}"

# 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-test",
    "access_key": "<AWS-ACCESS-KEY-ID>",
    "secret_key": "<AWS-SECRET-ACCESS-KEY>",
    "key_expiry_time": "2024-02-12T22:36:29+05:30"
  }
]
}
```

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": "<AWS-ACCESS-KEY-ID>",
    "secret_key": "<AWS-SECRET-ACCESS-KEY>",
    "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

```
# 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": "<AWS-ACCESS-KEY-ID>",
    "secret_key": "<AWS-SECRET-ACCESS-KEY>",
    "_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": "<AWS-ACCESS-KEY-ID>",
    "secret_key": "<>AWS-SECRET-ACCESS-KEY",
    "key_expiry_time": "2023-06-16T16:19:06Z",
    "_links": {
      "self": {
        "href": "/api/protocols/s3/services/db2ec036-8375-11e9-99e1-
0050568e3ed9/users/user-2"
      }
    }
  }
]
}
```

Regenerating keys by specifying keys in the input

```
# 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 "{
\"access_key\": \"<AWS-ACCESS-KEY-ID>\",  \"comment\": \"S3 user\",
\"key_time_to_live\": \"PT6H3M\",  \"secret_key\": \"<AWS-SECRET-ACCESS-
KEY>\"}"

# 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": "<AWS-ACCESS-KEY-ID>",
    "secret_key": "<AWS-SECRET-ACCESS-KEY>",
    "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

```
# 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 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 • maxLength: 256 • minLength: 0
key_time_to_live	string	query	False	Filter by key_time_to_live • Introduced in: 9.14
svm.name	string	query	False	Filter by svm.name
name	string	query	False	Filter by name • maxLength: 64 • minLength: 1
key_expiry_time	string	query	False	Filter by key_expiry_time • Introduced in: 9.14
access_key	string	query	False	Filter by access_key
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. • Default value: 1
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. • Default value: 15 • Max value: 120 • Min value: 0
order_by	array[string]	query	False	Order results by specified fields and optional [asc

Response

```
Status: 200, Ok
```

Name	Type	Description
_links	collection_links	
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": "<AWS-ACCESS-KEY-ID>",
      "comment": "S3 user",
      "key_expiry_time": "2024-01-01 00:00:00 +0000",
      "key_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	returned_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	

collection_links

Name	Type	Description
next	href	
self	href	

_links

Name	Type	Description
self	href	

svm

SVM, applies only to SVM-scoped objects.

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.

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.

Name	Type	Description
key_expiry_time	string	Specifies the date and time after which keys expire and are no longer valid.
key_time_to_live	string	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.
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[error_arguments]	Message arguments

Name	Type	Description
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.
- User access and secret keys can be specified in the input. If not specified, keys are generated automatically.

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. • Default value:
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_time_to_live	string	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.

Name	Type	Description
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 "-".
secret_key	string	Specifies the secret key for the user.
svm	svm	SVM, applies only to SVM-scoped objects.

Example request

```
{
  "access_key": "<AWS-ACCESS-KEY-ID>",
  "comment": "S3 user",
  "key_expiry_time": "2024-01-01 00:00:00 +0000",
  "key_time_to_live": "PT6H3M",
  "name": "user-1",
  "secret_key": "<AWS-SECRET-ACCESS-KEY>",
  "svm": {
    "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": [
    {
      "access_key": "<AWS-ACCESS-KEY-ID>",
      "key_expiry_time": "2024-01-01 00:00:00 +0000",
      "name": "user-1",
      "secret_key": "<AWS-SECRET-ACCESS-KEY>"
    }
  ]
}
```


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	User name "User01234567890123456789012345678901234567890123456789012345678901234567890123456789012345" 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.
92406083	The maximum supported value for user key expiry configuration is "1095" days.
92406096	The user does not have permission to access the requested resource "{0}".

Error Code	Description
92406097	Internal error. The operation configuration is not correct.
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.
92406200	An object store user with the same access-key already exists.
92406201	Missing access-key or secret-key. Either provide both of the keys or none. If not provided, keys are generated automatically.
92406205	The object store user access key contains invalid characters. Valid characters are 0-9 and A-Z.

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

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.

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.

Name	Type	Description
key_time_to_live	string	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.
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 "-".
secret_key	string	Specifies the secret key for the user.
svm	svm	SVM, applies only to SVM-scoped objects.

collection_links

s3_service_user_post_response

Name	Type	Description
access_key	string	Specifies the access key for the user.
key_expiry_time	string	Specifies the date and time after which the keys expire and are no longer valid.
name	string	The name of the user.

Name	Type	Description
secret_key	string	Specifies the secret key for the user.

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.

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

Name	Type	In	Required	Description
name	string	path	True	User name

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.

Response

```
Status: 200, Ok
```

Error

```
Status: Default, Error
```

Name	Type	Description
error	returned_error	

Example error

```
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

Definitions

See Definitions

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.

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

Name	Type	In	Required	Description
name	string	path	True	User name

Name	Type	In	Required	Description
svm.uuid	string	path	True	UUID of the SVM to which this object belongs.
fields	array[string]	query	False	Specify the fields to return.

Response

```
Status: 200, Ok
```

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_time_to_live	string	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.

Name	Type	Description
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 response


```
{
  "access_key": "<AWS-ACCESS-KEY-ID>",
  "comment": "S3 user",
  "key_expiry_time": "2024-01-01 00:00:00 +0000",
  "key_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	returned_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	

svm

SVM, applies only to SVM-scoped objects.

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.

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.

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

Name	Type	In	Required	Description
name	string	path	True	User name
regenerate_keys	boolean	query	False	Specifies whether or not to regenerate the user keys. • Default value:

Name	Type	In	Required	Description
delete_keys	boolean	query	False	Specifies whether or not to delete the user keys. • Introduced in: 9.14 • Default value:
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_time_to_live	string	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.

Name	Type	Description
secret_key	string	Specifies the secret key for the user.
svm	svm	SVM, applies only to SVM-scoped objects.

Example request

```
{
  "access_key": "<AWS-ACCESS-KEY-ID>",
  "comment": "S3 user",
  "key_expiry_time": "2024-01-01 00:00:00 +0000",
  "key_time_to_live": "PT6H3M",
  "secret_key": "<AWS-SECRET-ACCESS-KEY>",
  "svm": {
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  }
}
```

Response

```
Status: 200, Ok
```

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

Example response


```
{
  "num_records": 1,
  "records": [
    {
      "access_key": "<AWS-ACCESS-KEY-ID>",
      "key_expiry_time": "2024-01-01 00:00:00 +0000",
      "name": "user-1",
      "secret_key": "<AWS-SECRET-ACCESS-KEY>"
    }
  ]
}
```


Error

```
Status: Default
```

ONTAP Error Response Codes

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.

Error Code	Description
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. | 92406200 | An object store user with the same access-key already exists. | | 92406201 | Missing access-key or secret-key. Either provide both of the keys or none. If not provided, keys are generated automatically. | | 92406202 | The "delete_keys" operation must be performed without specifying the user keys. | | 92406205 | The object store user access key contains invalid characters. Valid characters are 0-9 and A-Z. | | 92406308 | Cannot disable user "user1" in SVM "vs1" because the user belongs to at least one object store group. Remove the user from all groups before disabling the user. |

Definitions

See Definitions

href

Name	Type	Description
href	string	

_links

svm

SVM, applies only to SVM-scoped objects.

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.

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.

Name	Type	Description
key_time_to_live	string	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.
secret_key	string	Specifies the secret key for the user.
svm	svm	SVM, applies only to SVM-scoped objects.

collection_links

s3_service_user_post_response

Name	Type	Description
access_key	string	Specifies the access key for the user.
key_expiry_time	string	Specifies the date and time after which the keys expire and are no longer valid.
name	string	The name of the user.
secret_key	string	Specifies the secret key for the user.

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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