Account API methods

Element Software

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Account API methods

AddAccount

You can use `AddAccount` to add a new account to the system. You can also use this method to create new volumes under the new account as the account is created. The Challenge-Handshake Authentication Protocol (CHAP) settings you specify for the account apply to all volumes owned by the account.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
`attributes`	List of name-value pairs in JSON object format.	JSON object	None	No
`enableChap`	Specifies whether CHAP account credentials can be used by an initiator to access volumes.	boolean	true	No
`initiatorSecret`	The CHAP secret to use for the initiator. This secret must be 12 to 16 characters in length and should be impenetrable. The initiator CHAP secret must be unique and cannot be the same as the target CHAP secret. If not specified, a random secret is created.	string	None	No

Name	Description	Type	Default value	Required
`targetSecret`	The CHAP secret to use for the target (mutual CHAP authentication). This secret must be 12 to 16 characters in length and should be impenetrable. The target CHAP secret must be unique and cannot be the same as the initiator CHAP secret. If not specified, a random secret is created.	string	None	No
`username`	The unique username for this account. (Must be 1 to 64 characters in length).	string	None	Yes

Return value

This method has the following return values:

Name	Description	Type
account	An object containing information about the newly created account.	account
accountID	The ID of the newly created account object.	integer

Request example

Requests for this method are similar to the following example:

```
{
    "method": "AddAccount",
    "params": {
     "username"   : "bobsmith",
     "initiatorSecret" : "168[#5A757ru268)",
     "targetSecret" : "tlt&lt;,8TUYa7bC",
     "attributes" : {
        "billingcode" : 2345
     }
    },
    "id" : 1
}
```

Response example

This method returns a response similar to the following example:

```
{
  "id": 1,
  "result": {
    "account": {
      "accountID": 90,
      "attributes": {
         "billingcode": 2345
      },
      "initiatorSecret": "168[#5A757ru268)",
      "status": "active",
      "storageContainerID": "00000000-0000-0000-0000-000000000000",
      "targetSecret": "tlt&lt;,8TUYa7bC",
      "username": "bobsmith",
      "volumes": [],
      "enableChap": true
    },
    "accountID": 90
  }
}
```

New since version

9.6

GetAccountByID

You can use `GetAccountByID` to get details about a specific account, given its

accountID.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
accountID	The account ID of the account for which to get information.	integer	None	Yes

Return value

This method has the following return value:

Name	Description	Type
account	Account details.	account

Request example

Requests for this method are similar to the following example:

```
{
    "method": "GetAccountByID",
    "params": {
      "accountID"  : 3
    },
    "id" : 1
}
```

Response example

This method returns a response similar to the following example:

```
{
    "account": {
        "attributes": {},
        "username": "account3",
        "targetSecret": "targetsecret",
        "volumes": [],
        "enableChap": true,
        "status": "active",
        "accountID": 3,
        "storageContainerID": "abcdef01-1234-5678-90ab-cdef01234567",
        "initiatorSecret": "initiatorsecret"
    }
}
```

New since version

9.6

GetAccountByName

You can use `GetAccountByName` to get details about a specific account, given its username.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
username	User name for the account.	string	None	Yes

Return value

This method has the following return value:

Name	Description	Type
account	Account details.	account

Request example

Requests for this method are similar to the following example:

```
{
    "method": "GetAccountByName",
    "params": {
      "username"  : "jimmyd"
    },
    "id" : 1
}
```

Response example

This method returns a response similar to the following example:

```
{
    "account": {
        "attributes": {},
        "username": "jimmyd",
        "targetSecret": "targetsecret",
        "volumes": [],
        "enableChap": true,
        "status": "active",
        "accountID": 1,
        "storageContainerID": "abcdef01-1234-5678-90ab-cdef01234567",
        "initiatorSecret": "initiatorsecret"
    }
}
```

New since version

9.6

GetAccountEfficiency

You can use `GetAccountEfficiency` to get efficiency statistics about a volume account. This method returns efficiency information only for the account you give as a parameter.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
accountID	Specifies the volume account for which efficiency statistics are returned.	integer	None	Yes

Return value

This method has the following return value:

Name	Description	Type
compression	The amount of space saved by data compression for all volumes in the account. Stated as a ratio where a value of "1" means data has been stored with no compression.	float
deduplication	The amount of space saved by not duplicating data for all volumes in the account. Stated as a ratio.	float
missingVolumes	The volumes that could not be queried for efficiency data. Missing volumes can be caused by the Garbage Collection (GC) cycle being less than an hour old, temporary loss of network connectivity, or restarted services since the GC cycle.	integer array
thinProvisioning	The ratio of space used to the amount of space allocated for storing data. Stated as a ratio.	float
timestamp	The last time efficiency data was collected after Garbage Collection (GC), in UTC+0 format.	ISO 8601 date string

Request example

Requests for this method are similar to the following example:

```
{
    "method": "GetAccountEfficiency",
    "params": {
        "accountID": 3
    },
    "id": 1
}
```

Response example

This method returns a response similar to the following example:

```
{
    "id": 1,
    "result": {
        "compression": 2.020468042933262,
        "deduplication": 2.042488619119879,
        "missingVolumes": [],
        "thinProvisioning": 1.010087163391013,
        "timestamp": "2014-03-10T14:06:02Z"
    }
}
```

New since version

9.6

ListAccounts

You can use `ListAccounts` to get the entire list of storage tenant accounts, with optional paging support. Element accounts enable access to volumes.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
includeStorageContainers	Virtual volume storage containers are included in the response by default. To exclude storage containers, set to false.	boolean	true	No

Name	Description	Type	Default value	Required
startAccountID	Starting accountID to return. If no account exists with this accountID, the next account by accountID order is used as the start of the list. To page through the list, pass the accountID of the last account in the previous response + 1.	integer	None	No
limit	Maximum number of account objects to return.	integer	None	No

Return value

This method has the following return value:

Name	Description	Type
accounts	The list of accounts.	account array

Request example

Requests for this method are similar to the following example:

```
{
   "method": "ListAccounts",
   "params": {
     "startAccountID"  : 0,
     "limit" : 1000
   },
   "id" : 1
}
```

Response example

This method returns a response similar to the following example:

```
{
    "result" : {
     "accounts": [
     {
         "attributes": {},
         "username": "jamesw",
         "targetSecret": "168#5A757ru268)",
         "volumes": [],
         "enableChap": false,
         "status": "active",
         "accountID": 16,
         "storageContainerID": "abcdef01-1234-5678-90ab-cdef01234567",
         "initiatorSecret": "168#5A757ru268)"
     },
     {
         "attributes": {},
         "username": "jimmyd",
         "targetSecret": "targetsecret",
         "volumes": [],
         "enableChap": true,
         "status": "active",
         "accountID": 5,
         "storageContainerID": "abcdef01-1234-5678-90ab-cdef01234567",
         "initiatorSecret": "initiatorsecret"
     }
   ]
 }
 }
```

New since version

9.6

ModifyAccount

You can use the `ModifyAccount` method to modify an existing account.

When you lock an account, any existing connections from that account are immediately terminated. When you change an account's CHAP settings, any existing connections remain active, and the new CHAP settings are used on subsequent connections or reconnections. To clear an account's attributes, specify {} for the attributes parameter.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
accountID	AccountID for the account to modify.	integer	None	Yes
attributes	List of name-value pairs in JSON object format.	JSON object	None	No
enableChap	Specifies whether CHAP account credentials can be used by an initiator to access volumes.	boolean	None	No
initiatorSecret	The CHAP secret to use for the initiator. This secret must be 12-16 characters in length and should be impenetrable. The initiator CHAP secret must be unique and cannot be the same as the target CHAP secret.	string	None	No
status	Status for the account. Possible values: • active: Account is active and connections are allowed. • locked: Account is locked and connections are refused.	string	None	No

Name	Description	Type	Default value	Required
targetSecret	The CHAP secret to use for the target (mutual CHAP authentication). This secret must be 12-16 characters in length and should be impenetrable. The target CHAP secret must be unique and cannot be the same as the initiator CHAP secret.	string	None	No
username	Used to change the username associated with the account. (Must be 1 to 64 characters in length).	string	None	No

Return value

This method has the following return value:

Name	Description	Type
account	An object containing information about the modified account.	account

Request example

Requests for this method are similar to the following example. In this example, the attributes are cleared by specifying {} for them:

```
{
    "method": "ModifyAccount",
    "params": {
      "accountID"  : 25,
      "status"   : "locked",
      "attributes" : {}
    },
    "id" : 1
}
```

Response example

This method returns a response similar to the following example:

```
{
    "account": {
        "storageContainerID": "abcdef01-1234-5678-90ab-cdef01234567",
        "username": "user1",
        "accountID": 1,
        "volumes": [
        ],
        "enableChap": true,
        "initiatorSecret": "txz123456q890",
        "attributes": {
        },
        "status": active",
        "targetSecret": "rxe123b567890"
    }
}
```

New since version

9.6

RemoveAccount

You can use the `RemoveAccount` method to remove an existing account. You must delete and purge all volumes associated with the account using `DeleteVolume` before you can remove the account. If volumes on the account are still pending deletion, you cannot use `RemoveAccount` to remove the account.

Parameter

This method has the following input parameter:

Name	Description	Type	Default value	Required
accountID	The ID of the account to remove.	integer	None	Yes

Return value

This method has no return value.

Request example

Requests for this method are similar to the following example.

```
{
    "method": "RemoveAccount",
    "params": {
      "accountID"  : 25
    },
    "id" : 1
}
```

Response example

This method returns a response similar to the following example:

```
{
 "id" : 1,
 "result" : { }
}
```

New since version

9.6

Find more information

DeleteVolume