



Administrator API methods

Element Software

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Administrator API methods

You can use administrator API methods to create, modify, view, and remove storage cluster administrators and assign levels of access and privileges for those with access to a storage cluster.

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AddClusterAdmin

You can use the `AddClusterAdmin` method to add a new cluster admin account. A cluster admin can manage the cluster via the API and management tools. Cluster admins are completely separate and unrelated to standard tenant accounts.

Each cluster admin can be restricted to a subset of the API. You should use multiple cluster admin accounts for different users and applications. As a best practice, give each cluster admin the minimal permissions necessary; this reduces the potential impact of credential compromise.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
access	Controls which methods the cluster admin can use.	string array	None	Yes

Name	Description	Type	Default value	Required
acceptEula	Accept the End User License Agreement. Set to true to add a cluster administrator account to the system. If omitted or set to false, the method call fails.	boolean	None	Yes
attributes	List of name/value pairs in JSON object format.	JSON object	None	No
password	Password used to authenticate this cluster admin.	string	None	Yes
username	Unique username for this cluster admin. Must be between 1 and 1024 characters in length.	string	None	Yes

Return value

This method has the following return value:

Name	Description	Type
clusterAdminID	ClusterAdminID for the newly created cluster admin.	integer

Request example

Requests for this method are similar to the following example:

```
{
  "method": "AddClusterAdmin",
  "params": {
    "username": "joeadmin",
    "password": "68!5Aru268)$",
    "attributes": {},
    "acceptEula": true,
    "access": ["volumes", "reporting", "read"]
  },
  "id": 1
}
```

Response example

This method returns a response similar to the following example:

```
{
  "id": 1,
  "result" : {
    "clusterAdminID": 2
  }
}
```

New since version

9.6

Find more information

[Access control](#)

GetCurrentClusterAdmin

You can use the `GetCurrentClusterAdmin` method to return information for the current primary Cluster Admin. The primary Cluster Admin was created when the cluster was created.

Parameters

This method has no input parameters.

Return value

This method has the following return value:

Name	Description	Type
clusterAdmin	Information about the cluster admin.	clusterAdmin

Request example

Requests for this method are similar to the following example:

```
{
  "method": "GetCurrentClusterAdmin",
  "id" : 1
}
```

Response example

This method returns a response similar to the following example:

```
{
  "id": 1,
  "result": {
    "clusterAdmin": {
      "access": [
        "administrator"
      ],
      "attributes": null,
      "authMethod": "Cluster",
      "clusterAdminID": 1,
      "username": "admin"
    }
  }
}
```

New since version

10.0

GetLoginBanner

You can use the [GetLoginBanner](#) method to get the currently active Terms of Use banner that users see when they log in to the Element web interface.

Parameters

This method has no input parameters.

Return values

This method has the following return values:

Name	Description	Type
banner	The current text of the Terms of Use banner. This value can contain text even when the banner is disabled.	string
enabled	The status of the Terms of Use banner. Possible values: <ul style="list-style-type: none">• true: The Terms of Use banner is displayed upon web interface login.• false: The Terms of Use banner is not displayed upon web interface login.	boolean

Request example

Requests for this method are similar to the following example:

```
{
  "id": 3411,
  "method": "GetLoginBanner",
  "params": {}
}
```

Response example

This method returns a response similar to the following example:

```

{
  "id": 3411,
  "result": {
    "loginBanner": {
      "banner": "Welcome to NetApp!",
      "enabled": false
    }
  }
}

```

New since version

10.0

ListClusterAdmins

You can use the `ListClusterAdmins` method to return the list of all cluster administrators for the cluster.

There can be several cluster administrator accounts with different levels of permissions. There can be only one primary cluster administrator in the system. The primary Cluster Admin is the administrator that was created when the cluster was created. LDAP administrators can also be created when setting up an LDAP system on the cluster.

Parameters

This method has the following input parameter:

Name	Description	Type	Default value	Required
showHidden	Shows hidden cluster administrator users, such as SNMP admin.	boolean	None	No

Return value

This method has the following return value:

Name	Description	Type
clusterAdmins	Information about all cluster and LDAP administrators that exist for a cluster.	clusterAdmin array

Request example

Requests for this method are similar to the following example:

```
{
  "method": "ListClusterAdmins",
  "params": {},
  "showHidden": true
  "id" : 1
}
```

Response example

This method returns a response similar to the following example:

```

{
  "id":1,
  "result":{
    "clusterAdmins":[
      {
        "access":[
          "administrator"
        ],
        "attributes":null,
        "authMethod":"Cluster",
        "clusterAdminID":1,
        "username":"admin"
      },
      {
        "access":[
          "read",
          "administrator"
        ],
        "attributes":{
        },
        "authMethod":"Ldap",
        "clusterAdminID":7,
        "username":"john.smith"
      },
      {
        "access":[
          "read",
          "administrator"
        ],
        "attributes":{
        },
        "authMethod":"Ldap",
        "clusterAdminID":6,
        "username":"cn=admin1
jones,ou=ptusers,c=prodtest,dc=solidfire,dc=net"
        }
      ]
    }
  }
}

```

New since version

9.6

ModifyClusterAdmin

You can use the `ModifyClusterAdmin` method to change the settings for a cluster admin, LDAP cluster admin, or third-party Identity Provider (IdP) cluster admin. You cannot change access for the administrator cluster admin account.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
access	Controls which methods this cluster admin can use.	string array	None	No
attributes	List of name-value pairs in JSON object format.	JSON object	None	No
clusterAdminID	ClusterAdminID for the cluster admin, LDAP cluster admin, or IdP cluster admin to modify.	integer	None	Yes
password	Password used to authenticate this cluster admin. This parameter does not apply to an LDAP or IdP cluster admin.	string	None	No

Return values

This method has no return values.

Request example

Requests for this method are similar to the following example:

```
{
  "method": "ModifyClusterAdmin",
  "params": {
    "clusterAdminID" : 2,
    "password"      : "7925Brc429a"
  },
  "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

[Access control](#)

RemoveClusterAdmin

You can use the `RemoveClusterAdmin` method to remove a cluster admin, an LDAP cluster admin, or a third-party Identity Provider (IdP) cluster admin. You cannot remove the "admin" Cluster Admin account.

Parameter

When an IdP cluster admin is removed that has authenticated sessions associated with a third-party Identity Provider IdP, those sessions will either logout or possibly experience a loss of access rights within their current session. The access rights loss will depend on whether the removed IdP cluster admin matched one of multiple IdP cluster admins from a given user's SAML attributes. The remaining set of matching IdP cluster admins results in a reduced set of aggregate access rights. Other cluster admin user types are logged out when their cluster admins are removed.

This method has the following input parameter:

Name	Description	Type	Default value	Required
clusterAdminID	ClusterAdminID for the Cluster Admin to remove.	integer	None	Yes

Return values

This method has no return values.

Request example

Requests for this method are similar to the following example:

```
{
  "method": "RemoveClusterAdmin",
  "params": {
    "clusterAdminID" : 2
  },
  "id" : 1
}
```

Response example

This method returns a response similar to the following example:

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

New since version

9.6

SetLoginBanner

You can use the `SetLoginBanner` method to configure the Terms of Use banner that users see when they log in to the Element web interface.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
banner	The desired text of the Terms of Use banner. The maximum length allowed is 4,096 characters.	string	None	No
enabled	The status of the Terms of Use banner. Possible values: <ul style="list-style-type: none"> • <code>true</code>: The Terms of Use banner is displayed upon web interface login. • <code>false</code>: The Terms of Use banner is not displayed upon web interface login. 	boolean	None	No

Return values

This method has the following return values:

Name	Description	Type
banner	The current text of the Terms of Use banner. This value can contain text even when the banner is disabled.	string
enabled	The status of the Terms of Use banner. Possible values: <ul style="list-style-type: none"> • <code>true</code>: The Terms of Use banner is displayed upon web interface login. • <code>false</code>: The Terms of Use banner is not displayed upon web interface login. 	boolean

Request example

Requests for this method are similar to the following example:

```
{
  "id": 3920,
  "method": "SetLoginBanner",
  "params": {
    "banner": "Welcome to NetApp!",
    "enabled": true
  }
}
```

Response example

This method returns a response similar to the following example:

```
{
  "id": 3920,
  "result": {
    "loginBanner": {
      "banner": "Welcome to NetApp!",
      "enabled": true
    }
  }
}
```

New since version

10.0

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