



# **Cluster**

## ONTAP automation

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# Table of Contents

Cluster .....	1
Get cluster configuration using the ONTAP REST API .....	1
Update cluster contact using the ONTAP REST API .....	1
Step 1: Update the cluster contact information .....	2
Step 2: Retrieve the status of the job .....	2
Step 3: Confirm the cluster contact information .....	3
Get job instance using the ONTAP REST API .....	3

# Cluster

## Get cluster configuration using the ONTAP REST API

You can retrieve the configuration for an ONTAP cluster including specific fields. You might do this as part of assessing the state of the cluster or before updating the configuration.

### HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
GET	/api/cluster

### Additional input parameters for curl examples

In addition to the parameters common with all REST API calls, the following parameters are also used in the curl example in this step.

Parameter	Type	Required	Description
fields	Query	No	Select the values you want returned. Examples include <code>contact</code> and <code>version</code> .

### Curl example: Retrieve the cluster contact information

This example illustrates how to retrieve a single field. To get the entire cluster object and configuration, you need to remove the `fields` query parameter.

```
curl --request GET \
--location "https://$FQDN_IP/api/cluster?fields=contact" \
--include \
--header "Accept: */*" \
--header "Authorization: Basic $BASIC_AUTH"
```

### JSON output example

```
{  
  "contact": "support@company-demo.com"  
}
```

## Update cluster contact using the ONTAP REST API

You can update the contact information for a cluster. Because the request is processed asynchronously, you also need to determine if the associated background job completed successfully.

## Step 1: Update the cluster contact information

You can issue an API call to update the cluster contact information.

### HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
PATCH	/api/cluster

### Processing type

Asynchronous

### Curl example

```
1 curl --request PATCH \
2 --location "https://$FQDN_IP/api/cluster" \
3 --include \
4 --header "Content-Type: application/json" \
5 --header "Accept: */*" \
6 --header "Authorization: Basic $BASIC_AUTH" \
7 --data @JSONinput
```

### JSON input example

```
{
  "contact": "support@company-demo.com"
}
```

### JSON output example

A job object is returned. You should save the job identifier to use it in the next step.

```
{
  "job": {
    "uuid": "d877f5bb-3aa7-11e9-b6c6-005056a78c89",
    "_links": {
      "self": {
        "href": "/api/cluster/jobs/d877f5bb-3aa7-11e9-b6c6-005056a78c89"
      }
    }
  }
}
```

## Step 2: Retrieve the status of the job

Perform the workflow [Get job instance](#) and confirm the state value is success.

## Step 3: Confirm the cluster contact information

Perform the workflow [Get cluster configuration](#). You should set the `fields` query parameter to `contact`.

## Get job instance using the ONTAP REST API

You can retrieve the instance of a specific ONTAP job. You would typically do this to determine if the job and associated operation completed successfully.



You need the UUID of the job object, which is typically provided after issuing an asynchronous request. Also review [Asynchronous processing using the Job object](#) before working with ONTAP internal jobs.

### HTTP method and endpoint

This REST API call uses the following method and endpoint.

HTTP method	Path
GET	/api/cluster/jobs/{uuid}

### Processing type

Synchronous

### Additional input parameters for the Curl examples

In addition to the parameters common with all REST API calls, the following parameters are also used in the curl examples for this step.

Parameter	Type	Required	Description
<code>\$JOB_ID</code>	Path	Yes	Needed to identify the job being requested.

### Curl example

```
1 curl --request GET \
2 --location "https://$FQDN_IP/api/cluster/jobs/$JOB_ID" \
3 --include \
4 --header "Accept: */*" \
5 --header "Authorization: Basic $BASIC_AUTH"
```

### JSON output example

The state value and other fields are included in the returned job object. The job in this example was run as part of updating an ONTAP cluster.

```
{  
  "uuid": "d877f5bb-3aa7-11e9-b6c6-005056a78c89",  
  "description": "PATCH /api/cluster",  
  "state": "success",  
  "message": "success",  
  "code": 0,  
  "_links": {  
    "self": {  
      "href": "/api/cluster/jobs/d877f5bb-3aa7-11e9-b6c6-005056a78c89"  
    }  
  }  
}
```

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