# Rest API

## ONTAP System Manager

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# Rest API

## REST API log overview

The REST API log captures the API calls that System Manager issues to ONTAP. You can use the log to understand the nature and sequence of the calls needed to perform the various ONTAP administrative tasks.

### How System Manager uses the REST API and API log

There are several ways that REST API calls are issued by System Manager to ONTAP.

#### When does System Manager issue API calls

Here are the most important examples of when System Manager issues ONTAP REST API calls.

**Automatic page refresh**

System Manager automatically issues API calls in the background to refresh the displayed information, such as on the dashboard page.

**Display action by user**

One or more API calls are issued when you display a specific storage resource or a collection of resources from the System Manager UI.

**Update action by user**

An API call is issued when you add, modify, or delete an ONTAP resource from the System Manager UI.

#### Reissuing an API call

You can also manually reissue an API call by clicking a log entry. This displays the raw JSON output from the call.

### Where to find more information

- ONTAP 9 REST API Developers Guide
- NetApp DevNet: ONTAP RESTful API

## Accessing the REST API log

You can access the log containing a record of the ONTAP REST API calls made by System Manager. When displaying the log, you can also reissue API calls and review the output.

*Steps*

1. At the top of the page, click <> to display the REST API log.

   The most recent entries are displayed at the bottom of the page.

2. On the left, click **DASHBOARD** and observe the new entries being created for the API calls issued to refresh the page.
3. Click **STORAGE** and then click **Qtrees**.

   This causes System Manager to issue a specific API call to retrieve a list of the Qtrees.

4. Locate the log entry describing the API call which has the form:

   `GET /api/storage/qtrees`

   You will see additional HTTP query parameters included with the entry, such as `max_records`.

5. Click the log entry to reissue the GET API call and display the raw JSON output.

   Example


```
{
  "records": [
    {
      "svm": {
        "uuid": "19507946-e801-11e9-b984-00a0986ab770",
        "name": "SMQA",
        "_links": {
          "self": {
            "href": "/api/svm/svms/19507946-e801-11e9-b984-00a0986ab770"
          }
        }
      },
      "volume": {
        "uuid": "1e173258-f98b-11e9-8f05-00a0986abd71",
        "name": "vol_vol_test2_dest_dest",
        "_links": {
          "self": {
            "href": "/api/storage/volumes/1e173258-f98b-11e9-8f05-00a0986abd71"
          }
        }
      },
      "id": 1,
      "name": "test2",
      "security_style": "mixed",
      "unix_permissions": 777,
      "export_policy": {
```

```
        "name": "default",
        "id": 12884901889,
        "_links": {
          "self": {
            "href": "/api/protocols/nfs/export-policies/12884901889"
          }
        }
      },
      "path": "/vol_vol_test2_dest_dest/test2",
      "_links": {
        "self": {
          "href": "/api/storage/qtrees/1e173258-f98b-11e9-8f05-00a0986abd71/1"
        }
      }
    },
    ],
    "num_records": 1,
    "_links": {
      "self": {
        "href": "/api/storage/qtrees?max_records=20&fields=*&name=!%22%22"
      }
    }
  }
```

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