# Manage QoS workloads

## REST API reference

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# Manage QoS workloads

## Storage Qos workloads endpoint overview

### Quality of Service Workloads

A QoS workload represents a storage object that is tracked by QoS.

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### Examples

#### Retrieving a list of QoS workloads from the cluster

The following example retrieves all the workloads in the cluster.

---

```
curl -X GET "https://<mgmt-ip>/api/storage/qos/workloads" -H "accept:
application/hal+json"
```

---

#### Retrieving a specific QoS workload from the cluster

The following example retrieves a requested workload from the cluster.

---

```
curl -X GET "https://<mgmt-ip>/api/storage/qos/workloads/77b68b1c-a458-
11eb-baaa-005056bb873e" -H "accept: application/hal+json"
```

---

# Retrieve QoS workloads

GET `/storage/qos/workloads`

**Introduced In:** 9.10

Retrieves a collection of QoS workloads.

### Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| file | string | query | False | Filter by file |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| name | string | query | False | Filter by name |
| qtree | string | query | False | Filter by qtree |
| svm.uuid | string | query | False | Filter by svm.uuid |
| svm.name | string | query | False | Filter by svm.name |
| policy.uuid | string | query | False | Filter by policy.uuid |
| policy.name | string | query | False | Filter by policy.name |
| wid | integer | query | False | Filter by wid |
| volume | string | query | False | Filter by volume |
| uuid | string | query | False | Filter by uuid |
| lun | string | query | False | Filter by lun |
| workload_class | string | query | False | Filter by workload_class |
| fields | array[string] | query | False | Specify the fields to return. |
| max_records | integer | query | False | Limit the number of records returned. |
| return_records | boolean | query | False | The default is true for GET calls. When set to false, only the number of records is returned.<br>• Default value: 1 |

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| 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.<br>• Default value: 1<br>• Max value: 120<br>• 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 | _links | |
| error | error | |
| num_records | integer | Number of records |
| records | array[qos_workload] | |

**Example response**


```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "file": "string",
      "lun": "string",
      "name": "volume1-wid123",
      "policy": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "performance",
        "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
      },
      "qtree": "string",
      "svm": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
```

```
          }
        },
        "name": "svm1",
        "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
      },
      "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
      "volume": "volume1",
      "wid": 123,
      "workload_class": "autovolume"
    }
  ]
}
```


## Error

```
Status: Default, Error
```

| Name | Type | Description |
|---|---|---|
| error | 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 |
|---|---|---|
| next | href | |
| self | href | |

error_arguments

| Name | Type | Description |
|---|---|---|
| code | string | Argument code |
| message | string | Message argument |

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. |

_links

| Name | Type | Description |
|---|---|---|
| self | href | |

policy

QoS policy group reference.

| Name | Type | Description |
|---|---|---|
| _links | _links | |

| Name | Type | Description |
|---|---|---|
| name | string | The QoS policy group name. This is mutually exclusive with UUID and other QoS attributes during POST and PATCH. |
| uuid | string | The QoS policy group UUID. This is mutually exclusive with name and other QoS attributes during POST and PATCH. |

svm

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

qos_workload

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| file | string | Name of the file. |
| lun | string | Name of the LUN. The name of the LUN will be displayed as "(unknown)" if the name cannot be retrieved. |
| name | string | Name of the QoS workload. |
| policy | policy | QoS policy group reference. |
| qtree | string | Name of the Qtree. |
| svm | svm | |
| uuid | string | |
| volume | string | Name of the volume. The name of the volume will be displayed as "(unknown)" if the name cannot be retrieved. |

| Name | Type | Description |
|---|---|---|
| wid | integer | Workload ID of the QoS workload. |
| workload_class | string | Class of the QoS workload. |

# Retrieve a QoS workload

GET `/storage/qos/workloads/{uuid}`

**Introduced In:** 9.10

Retrieves a specific QoS workload.

## Related ONTAP command

- `qos workload show`

## Parameters

| Name | Type | In | Required | Description |
|---|---|---|---|---|
| uuid | string | path | True | |
| fields | array[string] | query | False | Specify the fields to return. |

## Response

```
Status: 200, Ok
```

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| file | string | Name of the file. |
| lun | string | Name of the LUN. The name of the LUN will be displayed as "(unknown)" if the name cannot be retrieved. |
| name | string | Name of the QoS workload. |
| policy | policy | QoS policy group reference. |

| Name | Type | Description |
| --- | --- | --- |
| qtree | string | Name of the Qtree. |
| svm | svm | |
| uuid | string | |
| volume | string | Name of the volume. The name of the volume will be displayed as "(unknown)" if the name cannot be retrieved. |
| wid | integer | Workload ID of the QoS workload. |
| workload_class | string | Class of the QoS workload. |

**Example response**


```
{
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "file": "string",
  "lun": "string",
  "name": "volume1-wid123",
  "policy": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "performance",
    "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412"
  },
  "qtree": "string",
  "svm": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "name": "svm1",
    "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
  },
  "uuid": "1cd8a442-86d1-11e0-ae1c-123478563412",
  "volume": "volume1",
  "wid": 123,
  "workload_class": "autovolume"
}
```


## Error

```
Status: Default, Error
```

| Name | Type | Description |
|---|---|---|
| error | 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 | |

policy

QoS policy group reference.

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | The QoS policy group name. This is mutually exclusive with UUID and other QoS attributes during POST and PATCH. |
| uuid | string | The QoS policy group UUID. This is mutually exclusive with name and other QoS attributes during POST and PATCH. |

svm

| Name | Type | Description |
|---|---|---|
| _links | _links | |
| name | string | The name of the SVM. |
| uuid | string | The unique identifier of the SVM. |

error_arguments

| Name | Type | Description |
|---|---|---|
| code | string | Argument code |
| message | string | Message argument |

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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