



Manage cluster mediators

ONTAP 9.8 REST API reference

NetApp
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Manage cluster mediators

Cluster mediators endpoint overview

Overview

You can use this API to connect to a mediator, delete or get the status of the mediator. The GET operation returns the status of the mediator. The DELETE operation deletes the mediator. The POST operation creates the mediator.

Examples

GET - MetroCluster status and configuration

```
[[ID93ad8b40427279860d80907ab5756412]]
= Retrieve ONTAP Mediators configured in the cluster

[.api-doc-operation .api-doc-operation-get]#GET# [.api-doc-code-
block]#`/cluster/mediators`#

*Introduced In:* 9.8

Retrieves mediators configured in the cluster.

== Parameters

[cols=5*,options=header]
|===
|Name
|Type
|In
|Required
|Description

|ip_address
|string
|query
|False
a|Filter by ip_address

|port
|integer
```

```
|query
|False
a|Filter by port

|peer_cluster.name
|string
|query
|False
a|Filter by peer_cluster.name

|peer_cluster.uuid
|string
|query
|False
a|Filter by peer_cluster.uuid

|reachable
|boolean
|query
|False
a|Filter by reachable

|uuid
|string
|query
|False
a|Filter by uuid

|fields
|array[string]
|query
|False
a|Specify the fields to return.

|max_records
|integer
|query
|False
a|Limit the number of records returned.
```

```
|return_records
|boolean
|query
|False
a|The default is true for GET calls.  When set to false, only the number
of records is returned.

* Default value: 1

|return_timeout
|integer
|query
|False
a|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.

* Default value: 1
* Max value: 120
* Min value: 0

|order_by
|array[string]
|query
|False
a|Order results by specified fields and optional [asc|desc] direction.
Default direction is 'asc' for ascending.

|===

== Response
```

Status: 200, Ok

```
[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|
```

```
|num_records
|integer
a|
```

```
|records
|array[link:#records[records]]
a|
```

```
|===
```

.Example response

[%collapsible%closed]

```
=====
```

```
[source,json,subs=+macros]
```

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "ip_address": "10.10.10.7",
      "password": "mypassword",
      "peer_cluster": {
        "_links": {
          "self": {
            "href": "/api/resourcelink"
          }
        },
        "name": "cluster2",
        "uuid": "ebe27c49-1adf-4496-8335-ab862aebebf2"
      },
      "port": "31784",
      "reachable": 1,
      "user": "myusername",
      "uuid": "string"
    }
  ]
}
```

```
=====
```

```
== Error
```

Status: Default, Error

```
[cols=3*,options=header]
|===
|Name
|Type
|Description

|error
|link:#error[error]
a|

|===

.Example error
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
====
[#href]
[.api-collapsible-fifth-title]
```

```

href

[cols=3*,options=header]
|===
|Name
|Type
|Description

|href
|string
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|next
|link:href[href]
a|

|self
|link:href[href]
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self

```



```
|link:#href[href]
```

```
a|
```

```
|===
```

```
[#peer_cluster]
```

```
[.api-collapsible-fifth-title]
```

```
peer_cluster
```

The peer cluster that the mediator service is used for.

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|_links
```

```
|link:#_links[_links]
```

```
a|
```

```
|name
```

```
|string
```

```
a|
```

```
|uuid
```

```
|string
```

```
a|
```

```
|===
```

```
[#records]
```

```
[.api-collapsible-fifth-title]
```

```
records
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|ip_address
```

```
|string
```

```
a|The IP address of the mediator.
```

```
|password
|string
a|The password used to connect to the REST server on the mediator.
```

```
|peer_cluster
|link:#peer_cluster[peer_cluster]
a|The peer cluster that the mediator service is used for.
```

```
|port
|integer
a|The REST server's port number on the mediator.
```

```
|reachable
|boolean
a|Indicates the connectivity status of the mediator.
```

```
|user
|string
a|The username used to connect to the REST server on the mediator.
```

```
|uuid
|string
a|The unique identifier for the mediator service.
```

```
|===
```

```
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments
```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description
```

```
|code
|string
```

```

a|Argument code

|message
|string
a|Message argument

|===

[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
|===
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

|code
|string
a|Error code

|message
|string
a|Error message

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
=====

```

```
[[ID7f1ce380d7d3fe0945f54e68d1e5ff77]]
= Create and connect an ONTAP Mediator
```

```
[.api-doc-operation .api-doc-operation-post]#POST# [.api-doc-code-
block]#`/cluster/mediators`#
```

Introduced In: 9.8

Creates and connect a mediator.

== Parameters

```
[cols=5*,options=header]
|===
```

```
|Name
|Type
|In
|Required
|Description
```

```
|return_timeout
|integer
|query
|False
```

a|The number of seconds to allow the call to execute before returning. When doing a POST, PATCH, or DELETE operation on a single record, the default is 0 seconds. This means that if an asynchronous operation is started, the server immediately returns HTTP code 202 (Accepted) along with a link to the job. If a non-zero value is specified for POST, PATCH, or DELETE operations, ONTAP waits that length of time to see if the job completes so it can return something other than 202.

* Default value: 1
* Max value: 120
* Min value: 0

```
|return_records
|boolean
|query
|False
```

a|The default is false. If set to true, the records are returned.

* Default value:

|===

== Request Body

[cols=3*,options=header]

|===

|Name

|Type

|Description

|ip_address

|string

a|The IP address of the mediator.

|password

|string

a|The password used to connect to the REST server on the mediator.

|peer_cluster

|link:#peer_cluster[peer_cluster]

a|The peer cluster that the mediator service is used for.

|port

|integer

a|The REST server's port number on the mediator.

|reachable

|boolean

a|Indicates the connectivity status of the mediator.

|user

|string

a|The username used to connect to the REST server on the mediator.

|uuid

|string

a|The unique identifier for the mediator service.

```
|===
```

```
.Example request
```

```
[%collapsible%closed]
```

```
====
```

```
[source,json,subs=+macros]
```

```
{  
  "ip_address": "10.10.10.7",  
  "password": "mypassword",  
  "peer_cluster": {  
    "_links": {  
      "self": {  
        "href": "/api/resourcelink"  
      }  
    },  
    "name": "cluster2",  
    "uuid": "ebe27c49-1adf-4496-8335-ab862aebebf2"  
  },  
  "port": "31784",  
  "reachable": 1,  
  "user": "myusername",  
  "uuid": "string"  
}
```

```
====
```

```
== Response
```

Status: 202, Accepted

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|job
|link:#job_link[job_link]
a|

|===

.Example response
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
====

== Error

```

Status: Default

ONTAP Error Response codes

```

|===
| Error code | Description

| 13369351
| Update to mediator failed. Reason: does not authorized for that command.
Check that the peer cluster and mediator are reachable.
|===

```

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|error
|link:#error[error]
a|

|===

.Example error
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
====
[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
|===
|Name

```



```

|Type
|Description

|href
|string
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

```

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self
|link:#href[href]
a|

```

```

|===

```

```

[#peer_cluster]
[.api-collapsible-fifth-title]
peer_cluster

```

The peer cluster that the mediator service is used for.

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|name
|string
a|

```

```

|uuid
|string
a|

|===

[#mediator]
[.api-collapsible-fifth-title]
mediator

Mediator information

[cols=3*,options=header]
|===
|Name
|Type
|Description

|ip_address
|string
a|The IP address of the mediator.

|password
|string
a|The password used to connect to the REST server on the mediator.

|peer_cluster
|link:#peer_cluster[peer_cluster]
a|The peer cluster that the mediator service is used for.

|port
|integer
a|The REST server's port number on the mediator.

|reachable
|boolean
a|Indicates the connectivity status of the mediator.

|user

```

```

|string
a|The username used to connect to the REST server on the mediator.

|uuid
|string
a|The unique identifier for the mediator service.

|===

[#job_link]
[.api-collapsible-fifth-title]
job_link

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|uuid
|string
a|The UUID of the asynchronous job that is triggered by a POST, PATCH, or
DELETE operation.

|===

[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments

[cols=3*,options=header]
|===
|Name
|Type
|Description

|code
|string

```

```

a|Argument code

|message
|string
a|Message argument

|===

[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
|===
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

|code
|string
a|Error code

|message
|string
a|Error message

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
=====

```

```
[[IDc229b64cc8a9ce232607303917311a64]]
```

```
= Delete an ONTAP Mediator
```

```
[.api-doc-operation .api-doc-operation-delete]#DELETE# [.api-doc-code-  
block]#`/cluster/mediators/{uuid}`#
```

```
*Introduced In:* 9.8
```

```
Deletes the mediator.
```

```
== Parameters
```

```
[cols=5*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|In
```

```
|Required
```

```
|Description
```

```
|uuid
```

```
|string
```

```
|path
```

```
|True
```

```
a|* format: uuid
```

```
|return_timeout
```

```
|integer
```

```
|query
```

```
|False
```

```
a|The number of seconds to allow the call to execute before returning.
```

```
When doing a POST, PATCH, or DELETE operation on a single record, the
```

```
default is 0 seconds. This means that if an asynchronous operation is
```

```
started, the server immediately returns HTTP code 202 (Accepted) along
```

```
with a link to the job. If a non-zero value is specified for POST, PATCH,
```

```
or DELETE operations, ONTAP waits that length of time to see if the job
```

```
completes so it can return something other than 202.
```

```
* Default value: 1
```

```
* Max value: 120
```

```
* Min value: 0
```

```
|===
```

```
== Request Body
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|ip_address
```

```
|string
```

```
a|The IP address of the mediator.
```

```
|password
```

```
|string
```

```
a|The password used to connect to the REST server on the mediator.
```

```
|peer_cluster
```

```
|link:#peer_cluster[peer_cluster]
```

```
a|The peer cluster that the mediator service is used for.
```

```
|port
```

```
|integer
```

```
a|The REST server's port number on the mediator.
```

```
|reachable
```

```
|boolean
```

```
a|Indicates the connectivity status of the mediator.
```

```
|user
```

```
|string
```

```
a|The username used to connect to the REST server on the mediator.
```

```
|uuid
```

```
|string
```

```
a|The unique identifier for the mediator service.
```

```
|===
```

```
.Example request
```

```
[%collapsible%closed]
```

```
====
```

```
[source,json,subs=+macros]
```

```
{  
  "ip_address": "10.10.10.7",  
  "password": "mypassword",  
  "peer_cluster": {  
    "_links": {  
      "self": {  
        "href": "/api/resourcelink"  
      }  
    },  
    "name": "cluster2",  
    "uuid": "ebe27c49-1adf-4496-8335-ab862aebef2"  
  },  
  "port": "31784",  
  "reachable": 1,  
  "user": "myusername",  
  "uuid": "string"  
}
```

```
====
```

```
== Response
```

Status: 202, Accepted

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|job
|link:#job_link[job_link]
a|

|===

.Example response
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "job": {
    "_links": {
      "self": {
        "href": "/api/resourcelink"
      }
    },
    "uuid": "string"
  }
}
====

== Error

```

Status: Default

```

ONTAP Error Response codes

|===
| Error code | Description

| 13369377
| Mediator field "mediator.id" does not exist.
|===

[cols=3*,options=header]

```



```

|===
|Name
|Type
|Description

|error
|link:#error[error]
a|

|===

.Example error
[%collapsible%closed]
=====
[source,json,subs=+macros]
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
=====

== Definitions

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
=====
[#href]
[.api-collapsible-fifth-title]
href

[cols=3*,options=header]
|===
|Name
|Type

```

```

|Description

|href
|string
a|

|===

[#_links]
[.api-collapsible-fifth-title]
_links

[cols=3*,options=header]
|===
|Name
|Type
|Description

|self
|link:#href[href]
a|

|===

[#peer_cluster]
[.api-collapsible-fifth-title]
peer_cluster

The peer cluster that the mediator service is used for.

[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|name
|string
a|

```

```

|uuid
|string
a|

|===

[#mediator]
[.api-collapsible-fifth-title]
mediator

Mediator information

[cols=3*,options=header]
|===
|Name
|Type
|Description

|ip_address
|string
a|The IP address of the mediator.

|password
|string
a|The password used to connect to the REST server on the mediator.

|peer_cluster
|link:#peer_cluster[peer_cluster]
a|The peer cluster that the mediator service is used for.

|port
|integer
a|The REST server's port number on the mediator.

|reachable
|boolean
a|Indicates the connectivity status of the mediator.

|user
|string

```

```
a|The username used to connect to the REST server on the mediator.
```

```
|uuid
```

```
|string
```

```
a|The unique identifier for the mediator service.
```

```
|===
```

```
[#job_link]
```

```
[.api-collapsible-fifth-title]
```

```
job_link
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|_links
```

```
|link:#_links[_links]
```

```
a|
```

```
|uuid
```

```
|string
```

```
a|The UUID of the asynchronous job that is triggered by a POST, PATCH, or DELETE operation.
```

```
|===
```

```
[#error_arguments]
```

```
[.api-collapsible-fifth-title]
```

```
error_arguments
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|code
```

```
|string
```

```
a|Argument code
```

```

|message
|string
a|Message argument

|===

[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
|===
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

|code
|string
a|Error code

|message
|string
a|Error message

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
=====

```

```

[[ID7f446a6c7c0d90088288be11bafc8364]]
= Retrieve ONTAP Mediator state and configuration

[.api-doc-operation .api-doc-operation-get]#GET# [.api-doc-code-
block]#`/cluster/mediators/{uuid}`#

*Introduced In:* 9.8

Retrieves the mediator state and configuration.

== Parameters

[cols=5*,options=header]
|===
|Name
|Type
|In
|Required
|Description

|uuid
|string
|path
|True
a|* format: uuid

|fields
|array[string]
|query
|False
a|Specify the fields to return.

|===

== Response

```

Status: 200, Ok

```

[cols=3*,options=header]
|===
|Name
|Type

```

```

|Description

|ip_address
|string
a|The IP address of the mediator.

|password
|string
a|The password used to connect to the REST server on the mediator.

|peer_cluster
|link:#peer_cluster[peer_cluster]
a|The peer cluster that the mediator service is used for.

|port
|integer
a|The REST server's port number on the mediator.

|reachable
|boolean
a|Indicates the connectivity status of the mediator.

|user
|string
a|The username used to connect to the REST server on the mediator.

|uuid
|string
a|The unique identifier for the mediator service.

|===

.Example response
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "ip_address": "10.10.10.7",
  "password": "mypassword",

```

```

"peer_cluster": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "cluster2",
  "uuid": "ebe27c49-1adf-4496-8335-ab862aebef2"
},
"port": "31784",
"reachable": 1,
"user": "myusername",
"uuid": "string"
}
====

== Error

```

Status: Default, Error

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|error
|link:#error[error]
a|

|===

.Example error
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "error": {
    "arguments": [
      {
        "code": "string",
        "message": "string"
      }
    ],

```



```
    "code": "4",
    "message": "entry doesn't exist",
    "target": "uuid"
  }
}
```

====

== Definitions

```
[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block
```

====

```
[#href]
[.api-collapsible-fifth-title]
href
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description
```

```
|href
|string
a|
```

```
|===
```

```
[#_links]
[.api-collapsible-fifth-title]
_links
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description
```

```
|self
|link:#href[href]
a|
```

```
|===
```

```
[#peer_cluster]
[.api-collapsible-fifth-title]
peer_cluster
```

The peer cluster that the mediator service is used for.

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|_links
```

```
|link:#_links[_links]
```

```
a|
```

```
|name
```

```
|string
```

```
a|
```

```
|uuid
```

```
|string
```

```
a|
```

```
|===
```

```
[#error_arguments]
```

```
[.api-collapsible-fifth-title]
```

```
error_arguments
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
|code
```

```
|string
```

```
a|Argument code
```

```
|message
```

```
|string
```

```
a|Message argument
```

```

|===

[#error]
[.api-collapsible-fifth-title]
error

[cols=3*,options=header]
|===
|Name
|Type
|Description

|arguments
|array[link:#error_arguments[error_arguments]]
a|Message arguments

|code
|string
a|Error code

|message
|string
a|Error message

|target
|string
a|The target parameter that caused the error.

|===

//end collapsible .Definitions block
=====

[[IDfe21be455c3319d62af81acd0f11d7a5]]
= Retrieve historical performance metrics for the cluster

[.api-doc-operation .api-doc-operation-get]#GET# [.api-doc-code-
```

```
block]#`/cluster/metrics`#
```

```
*Introduced In:* 9.6
```

```
Retrieves historical performance metrics for the cluster.
```

```
== Parameters
```

```
[cols=5*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|In
```

```
|Required
```

```
|Description
```

```
|latency.total
```

```
|integer
```

```
|query
```

```
|False
```

```
a|Filter by latency.total
```

```
|latency.read
```

```
|integer
```

```
|query
```

```
|False
```

```
a|Filter by latency.read
```

```
|latency.other
```

```
|integer
```

```
|query
```

```
|False
```

```
a|Filter by latency.other
```

```
|latency.write
```

```
|integer
```

```
|query
```

```
|False
```

```
a|Filter by latency.write
```

```
|iops.total
```

```
|integer  
|query  
|False  
a|Filter by iops.total
```

```
|iops.read  
|integer  
|query  
|False  
a|Filter by iops.read
```

```
|iops.other  
|integer  
|query  
|False  
a|Filter by iops.other
```

```
|iops.write  
|integer  
|query  
|False  
a|Filter by iops.write
```

```
|status  
|string  
|query  
|False  
a|Filter by status
```

```
|duration  
|string  
|query  
|False  
a|Filter by duration
```

```
|timestamp  
|string  
|query  
|False  
a|Filter by timestamp
```

```
|throughput.total
|integer
|query
|False
a|Filter by throughput.total
```

```
|throughput.read
|integer
|query
|False
a|Filter by throughput.read
```

```
|throughput.other
|integer
|query
|False
a|Filter by throughput.other
```

```
|throughput.write
|integer
|query
|False
a|Filter by throughput.write
```

```
|interval
|string
|query
|False
a|The time range for the data. Examples can be 1h, 1d, 1m, 1w, or 1y.
The period for each time range is specified as follows:
```

- * 1h: Metrics over the most recent hour sampled over 15 seconds.
- * 1d: Metrics over the most recent day sampled over 5 minutes.
- * 1w: Metrics over the most recent week sampled over 30 minutes.
- * 1m: Metrics over the most recent month sampled over 2 hours.
- * 1y: Metrics over the most recent year sampled over a day.
- * Default value: 1
- * enum: ["1h", "1d", "1w", "1m", "1y"]

```
|return_timeout
|integer
```

```
|query
|False
a|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.

* Default value: 1
* Max value: 120
* Min value: 0

|fields
|array[string]
|query
|False
a|Specify the fields to return.

|max_records
|integer
|query
|False
a|Limit the number of records returned.

|order_by
|array[string]
|query
|False
a|Order results by specified fields and optional [asc|desc] direction.
Default direction is 'asc' for ascending.

|return_records
|boolean
|query
|False
a|The default is true for GET calls. When set to false, only the number
of records is returned.

* Default value: 1

|===

== Response
```

Status: 200, Ok

```
[cols=3*,options=header]
|===
|Name
|Type
|Description

|_links
|link:#_links[_links]
a|

|num_records
|integer
a|Number of records

|records
|array[link:#records[records]]
a|

|===

.Example response
[%collapsible%closed]
=====
[source,json,subs=+macros]
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "records": [
    {
      "_links": {
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "duration": "PT15S",
      "iops": {
```



```

    "read": "200",
    "total": "1000",
    "write": "100"
  },
  "latency": {
    "read": "200",
    "total": "1000",
    "write": "100"
  },
  "status": "ok",
  "throughput": {
    "read": "200",
    "total": "1000",
    "write": "100"
  },
  "timestamp": "2017-01-25T11:20:13Z"
}
]
}
====

== Error

```

Status: Default, Error

```

[cols=3*,options=header]
|===
|Name
|Type
|Description

|error
|link:#error[error]
a|

|===

.Example error
[%collapsible%closed]
====
[source,json,subs=+macros]
{
  "error": {
    "arguments": [

```

```

    {
      "code": "string",
      "message": "string"
    }
  ],
  "code": "4",
  "message": "entry doesn't exist",
  "target": "uuid"
}
}

```

====

== Definitions

```

[.api-def-first-level]
.See Definitions
[%collapsible%closed]
//Start collapsible Definitions block

```

====

```

[#href]
[.api-collapsible-fifth-title]
href

```

```

[cols=3*,options=header]

```

|===

```

|Name
|Type
|Description

```

```

|href
|string
a|

```

|===

```

[#_links]
[.api-collapsible-fifth-title]
_links

```

```

[cols=3*,options=header]

```

|===

```

|Name
|Type
|Description

```

```
|next
|link:#href[href]
a|

|self
|link:#href[href]
a|
```

```
|===
```

```
[#_links]
[.api-collapsible-fifth-title]
_links
```

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description
```

```
|self
|link:#href[href]
a|
```

```
|===
```

```
[#iops]
[.api-collapsible-fifth-title]
iops
```

The rate of I/O operations observed at the storage object.

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description
```

```
|other
|integer
a|Performance metric for other I/O operations. Other I/O operations can be
metadata operations, such as directory lookups and so on.
```

```
|read
|integer
a|Performance metric for read I/O operations.
```

```
|total
|integer
a|Performance metric aggregated over all types of I/O operations.
```

```
|write
|integer
a|Performance metric for write I/O operations.
```

```
|===
```

```
[#latency]
[.api-collapsible-fifth-title]
latency
```

The round trip latency in microseconds observed at the storage object.

```
[cols=3*,options=header]
```

```
|===
|Name
|Type
|Description
```

```
|other
|integer
a|Performance metric for other I/O operations. Other I/O operations can be
metadata operations, such as directory lookups and so on.
```

```
|read
|integer
a|Performance metric for read I/O operations.
```

```
|total
|integer
a|Performance metric aggregated over all types of I/O operations.
```

```
|write
|integer
a|Performance metric for write I/O operations.
```

```
|===
```

```
[#throughput]
[.api-collapsible-fifth-title]
throughput
```

The rate of throughput bytes per second observed at the storage object.

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
|Type
|Description
```

```
|other
|integer
a|Performance metric for other I/O operations. Other I/O operations can be
metadata operations, such as directory lookups and so on.
```

```
|read
|integer
a|Performance metric for read I/O operations.
```

```
|total
|integer
a|Performance metric aggregated over all types of I/O operations.
```

```
|write
|integer
a|Performance metric for write I/O operations.
```

```
|===
```

```
[#records]
[.api-collapsible-fifth-title]
```

records

Performance numbers, such as IOPS latency and throughput.

```
[cols=3*,options=header]
```

```
|===
```

```
|Name
```

```
|Type
```

```
|Description
```

```
 |_links
```

```
|link:#_links[_links]
```

```
a|
```

```
|duration
```

```
|string
```

```
a|The duration over which this sample is calculated. The time durations are represented in the ISO-8601 standard format. Samples can be calculated over the following durations:
```

```
|iops
```

```
|link:#iops[iops]
```

```
a|The rate of I/O operations observed at the storage object.
```

```
|latency
```

```
|link:#latency[latency]
```

```
a|The round trip latency in microseconds observed at the storage object.
```

```
|status
```

```
|string
```

```
a|Errors associated with the sample. For example, if the aggregation of data over multiple nodes fails, then any partial errors might return "ok" on success or "error" on an internal uncategorized failure. Whenever a sample collection is missed but done at a later time, it is back filled to the previous 15 second timestamp and tagged with "backfilled_data".
```

```
"Inconsistent_delta_time" is encountered when the time between two collections is not the same for all nodes. Therefore, the aggregated value might be over or under inflated. "Negative_delta" is returned when an expected monotonically increasing value has decreased in value.
```

```
"Inconsistent_old_data" is returned when one or more nodes do not have the latest data.
```

```
|throughput
|link:#throughput[throughput]
a|The rate of throughput bytes per second observed at the storage object.
```

```
|timestamp
|string
a|The timestamp of the performance data.
```

```
|===
```

```
[#error_arguments]
[.api-collapsible-fifth-title]
error_arguments
```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description
```

```
|code
|string
a|Argument code
```

```
|message
|string
a|Message argument
```

```
|===
```

```
[#error]
[.api-collapsible-fifth-title]
error
```

```
[cols=3*,options=header]
|===
|Name
|Type
|Description
```

```
|arguments
```

```
|array[link:#error_arguments[error_arguments]]
```

```
a|Message arguments
```

```
|code
```

```
|string
```

```
a|Error code
```

```
|message
```

```
|string
```

```
a|Error message
```

```
|target
```

```
|string
```

```
a|The target parameter that caused the error.
```

```
|===
```

```
//end collapsible .Definitions block
```

```
====
```

```
:leveloffset: -1
```

```
:leveloffset: -1
```

```
<<<
```

```
*Copyright information*
```

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