



# **Manage directories**

## **REST API reference**

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# Manage directories

## Manage directories

### Overview

You can use this API to retrieve a list of directories with the greatest value performance metric or capacity metric for a specified volume. Use the `top_metric` parameter to specify which type of metric to filter for. This API is used to provide insight into performance metrics, namely `iops` and `throughput`, or capacity metrics such as `non_recursive_bytes_used`. This API only supports returning one metric per request.

### Retrieve a list of the directories with the most I/O activity

For a report on the directories with the most I/O activity in the past several seconds returned in descending order, specify the performance metric type you want to filter for by passing the `iops` or `throughput` property into the `top_metric` parameter. If the metric type is not specified, by default the API returns a list of the directories with the greatest number of the average read operations per second. The current maximum number of directories returned by the API for a metric type is 25.

### Approximate accounting and error bars for the list of directories with the most I/O activity

When too many directories have recent activity, some directories might be dropped from the list. In this situation, the spread of values in the `error` field increases, indicating that there are larger error bars on the value for `iops` or `throughput`. As the list becomes increasingly more approximate due to dropped entries, some of the directories that would have otherwise been included might not be present in the final list returned by the API.

### Retrieve a list of the largest directories

For a report on the largest directories returned in descending order, specify the capacity metric by passing the `non_recursive_bytes_used` property into the `top_metric` parameter. If the metric type is not specified, by default the API returns a list of directories with the greatest number of average read operations per second. The current maximum number of directories returned by the API for a metric type is 25.

### Failure to return list of directories with most I/O activity

The API can sometimes fail to return the list of directories with the most I/O activity, due to the following reasons:

&ndash; The volume does not have the activity tracking feature enabled.

&ndash; The volume has not had any recent NFS/CIFS client traffic.

&ndash; The NFS/CIFS client operations are being served by the client-side filesystem cache.

&ndash; The NFS/CIFS client operations are being buffered by the client operating system.

&ndash; On rare occasions, the incoming traffic pattern is not suitable to obtain the list of directories with the most I/O activity.

&ndash; NFSv4 client read operations using Multi-Processor I/O (MPIO) are not tracked.

## Failure to return list of largest directories

The API can sometimes fail to return the list of largest directories, due to the following reasons:

&ndash; The volume does not have file system analytics enabled.

&ndash; The volume's file system analytics database version doesn't support this report.

## Failure to return pathnames

The API can sometimes fail to obtain filesystem pathnames for certain directories, either due to internal transient errors or if those directories have been recently deleted. In such cases, instead of the pathname, the API will return "{<volume\_instance\_uuid>.<fileid>}" for that directory.</fileid></volume\_instance\_uuid>

## Examples

### Retrieving a list of the directories with the greatest average number of read operations per second

```
# The API:
GET /api/storage/volumes/{volume.uuid}/top-metrics/directories

# The Call:
curl -X GET "https://<mgmt-ip>/api/storage/volumes/{volume.uuid}/top-
metrics/directories?top_metric=iops.read"

# The Response:
{
  "records": [
    {
      "volume": {
        "name": "vol1",
      },
      "iops": {
        "read": 1495,
        "error": {
          "lower_bound": 1495,
          "upper_bound": 1505
        }
      },
      "path": "/dir1/dir2",
      "svm": {
        "uuid": "572361f3-e769-439d-9c04-2ba48a08ff43",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/572361f3-e769-439d-9c04-2ba48a08ff43"
          }
        }
      }
    }
  ]
}
```

```

    },
    "_links": {
      "directory": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir1%2Fdir2"
      },
      "metadata": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir1%2Fdir2?return_metadata=true"
      }
    }
  },
  {
    "volume": {
      "name": "vol1",
    },
    "iops": {
      "read": 1022,
      "error": {
        "lower_bound": 1022,
        "upper_bound": 1032
      }
    },
    "path": "/dir3/dir4",
    "svm": {
      "uuid": "572361f3-e769-439d-9c04-2ba48a08ff43",
      "name": "vs1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/572361f3-e769-439d-9c04-2ba48a08ff43"
        }
      }
    },
    "_links": {
      "directory": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir3%2Fdir4"
      },
      "metadata": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir3%2Fdir4?return_metadata=true"
      }
    }
  },
  {
    "volume": {

```

```

    "uuid": "73b293df-e9d7-46cc-a9ce-2df8e52ef864",
    "name": "vol1",
    "_links": {
      "self": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864"
      }
    },
    "iops": {
      "read": 345,
      "error": {
        "lower_bound": 345,
        "upper_bound": 355
      }
    },
    "path": "/dir12",
    "svm": {
      "uuid": "572361f3-e769-439d-9c04-2ba48a08ff43",
      "name": "vs1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/572361f3-e769-439d-9c04-2ba48a08ff43"
        }
      }
    },
    "_links": {
      "directory": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir12"
      },
      "metadata": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir12?return_metadata=true"
      }
    }
  ],
  "num_records": 3,
  "_links": {
    "self": {
      "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/top-metrics/directories?top_metric=iops.read"
    }
  }
}

```

## Retrieving a list of the directories with the most traffic with failure in obtaining the pathnames for the directories:

```
# The Call:
curl -X GET "https://<mgmt-ip>/api/storage/volumes/{volume.uuid}/top-
metrics/directories?top_metric=throughput.write"

# The Response:
{
  "records": [
    {
      "volume": {
        "name": "fv"
      },
      "throughput": {
        "write": 24,
        "error": {
          "lower_bound": 24,
          "upper_bound": 29
        }
      },
      "path": "{4ec6d1ea-d5da-11eb-a25f-005056ac0f77:1232}",
      "svm": {
        "uuid": "0ba74c3e-d5ca-11eb-8fbb-005056ac0f77",
        "name": "vs0",
        "_links": {
          "self": {
            "href": "/api/svm/svms/0ba74c3e-d5ca-11eb-8fbb-005056ac0f77"
          }
        }
      }
    },
    {
      "volume": {
        "name": "fv"
      },
      "throughput": {
        "write": 12,
        "error": {
          "lower_bound": 12,
          "upper_bound": 22
        }
      },
      "path": "{4ec6d1ea-d5da-11eb-a25f-005056ac0f77:6754}",
      "svm": {
        "uuid": "0ba74c3e-d5ca-11eb-8fbb-005056ac0f77",
```

```

    "name": "vs0",
    "_links": {
      "self": {
        "href": "/api/svm/svms/0ba74c3e-d5ca-11eb-8fbb-005056ac0f77"
      }
    }
  },
  {
    "volume": {
      "name": "fv"
    },
    "throughput": {
      "write": 8,
      "error": {
        "lower_bound": 8,
        "upper_bound": 10
      }
    },
    "path": "{4ec6d1ea-d5da-11eb-a25f-005056ac0f77:8654}",
    "svm": {
      "uuid": "0ba74c3e-d5ca-11eb-8fbb-005056ac0f77",
      "name": "vs0",
      "_links": {
        "self": {
          "href": "/api/svm/svms/0ba74c3e-d5ca-11eb-8fbb-005056ac0f77"
        }
      }
    }
  }
],
"num_records": 3,
_links": {
  "self": {
    "href": "/api/storage/volumes/4ec6d1ea-d5da-11eb-a25f-005056ac0f77/top-metrics/directories?top_metric=throughput.write"
  }
}
}

```

## Retrieving a list of the largest directories

The following example shows how to retrieve a list of the largest directories based on the non-recursive bytes used by the contents of a directory.

```
# The API:
```

```
GET /api/storage/volumes/{volume.uuid}/top-metrics/directories
```

```
# The Call:
```

```
curl -X GET "https://<mgmt-ip>/api/storage/volumes/{volume.uuid}/top-  
metrics/directories?top_metric=non_recursive_bytes_used"
```

```
# The Response:
```

```
{  
  "records": [  
    {  
      "volume": {  
        "name": "vol1"  
      },  
      "non_recursive_bytes_used": 345,  
      "path": "/dir1/dir2",  
      "svm": {  
        "uuid": "572361f3-e769-439d-9c04-2ba48a08ff43",  
        "name": "vs1",  
        "_links": {  
          "self": {  
            "href": "/api/svm/svms/572361f3-e769-439d-9c04-2ba48a08ff43"  
          }  
        }  
      },  
      "_links": {  
        "directory": {  
          "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-  
2df8e52ef864/files/dir1%2Fdir2"  
        },  
        "metadata": {  
          "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-  
2df8e52ef864/files/dir1%2Fdir2?return_metadata=true"  
        }  
      }  
    },  
    {  
      "volume": {  
        "name": "vol1"  
      },  
      "non_recursive_bytes_used": 345,  
      "path": "/dir3/dir4",  
      "svm": {  
        "uuid": "572361f3-e769-439d-9c04-2ba48a08ff43",  
        "name": "vs1",  
        "_links": {  
          "self": {
```

```

        "href": "/api/svm/svms/572361f3-e769-439d-9c04-2ba48a08ff43"
    }
}
},
"_links": {
    "directory": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir3%2Fdir4"
    },
    "metadata": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir3%2Fdir4?return_metadata=true"
    }
}
},
{
    "volume": {
        "name": "vol1"
    },
    "non_recursive_bytes_used": 345,
    "path": "/dir12",
    "svm": {
        "uuid": "572361f3-e769-439d-9c04-2ba48a08ff43",
        "name": "vs1",
        "_links": {
            "self": {
                "href": "/api/svm/svms/572361f3-e769-439d-9c04-2ba48a08ff43"
            }
        }
    },
    "_links": {
        "directory": {
            "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir12"
        },
        "metadata": {
            "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir12?return_metadata=true"
        }
    }
}
],
"num_records": 3,
"_links": {
    "self": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-

```

```
2df8e52ef864/top-metrics/directories?top_metric=non_recursive_bytes_used"
    }
}
}
```

## Retrieving a list of the largest directories where incomplete data is reported

The following example retrieves a list of the largest directories when partial data is returned.

```
# The API:
GET /api/storage/volumes/{volume.uuid}/top-metrics/directories

# The Call:
curl -X GET "https://<mgmt-ip>/api/storage/volumes/{volume.uuid}/top-
metrics/directories?top_metric=non_recursive_bytes_used"

# The Response:
{
  "records": [
    {
      "volume": {
        "name": "vol1"
      },
      "non_recursive_bytes_used": 1022,
      "path": "/dir1/dir2",
      "svm": {
        "uuid": "572361f3-e769-439d-9c04-2ba48a08ff43",
        "name": "vs1",
        "_links": {
          "self": {
            "href": "/api/svm/svms/572361f3-e769-439d-9c04-2ba48a08ff43"
          }
        }
      },
      "_links": {
        "directory": {
          "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-
2df8e52ef864/files/dir1%2Fdir2"
        },
        "metadata": {
          "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-
2df8e52ef864/files/dir1%2Fdir2?return_metadata=true"
        }
      }
    },
    {

```

```

    "volume": {
      "name": "vol1"
    },
    "non_recursive_bytes_used": 261,
    "path": "/dir12",
    "svm": {
      "uuid": "572361f3-e769-439d-9c04-2ba48a08ff43",
      "name": "vs1",
      "_links": {
        "self": {
          "href": "/api/svm/svms/572361f3-e769-439d-9c04-2ba48a08ff43"
        }
      }
    },
    "_links": {
      "directory": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir12"
      },
      "metadata": {
        "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/files/dir12?return_metadata=true"
      }
    }
  ],
  "num_records": 2,
  "incomplete_response_reason": {
    "message": "Partial data has been returned for this metric report. Reason: Data collection for the large directory report is in progress.",
    "code": "111411234",
    "arguments": [
      {
        "message": "Data collection for the large directory report is in progress."
      }
    ]
  },
  "_links": {
    "self": {
      "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-2df8e52ef864/top-metrics/directories?top_metric=non_recursive_bytes_used"
    }
  }
}

```

## Retrieving a list of the largest directories when the file system analytics database version doesn't support this report

The following example shows the behavior of the API when the file system analytics database version doesn't support the large directory report.

```
# The API:
GET /api/storage/volumes/{volume.uuid}/top-metrics/directories

# The Call:
curl -X GET "https://<mgmt-ip>/api/storage/volumes/{volume.uuid}/top-
metrics/directories?top_metric=non_recursive_bytes_used"

# The Response:
{
  "records": [
  ],
  "num_records": 0,
  "_links": {
    "self": {
      "href": "/api/storage/volumes/73b293df-e9d7-46cc-a9ce-
2df8e52ef864/top-metrics/directories?top_metric=non_recursive_bytes_used"
    }
  },
  "error": {
    "message": "The large directory report for volume \"FV\" in Vserver
\"vs0\" is not available because the file system analytics database
version doesn't support this report. Use the \"volume analytics off\"
command to disable analytics on the volume, then use the \"volume
analytics on\" command to re-enable analytics.",
    "code": "124519410"
  }
}
```

**Example showing the behavior of the API when there is no read/write traffic:**

```
# The Call:
curl -X GET "https://<mgmt-ip>/api/storage/volumes/{volume.uuid}/top-
metrics/directories?top_metric=throughput.write"

# The Response:
{
  "records": [
  ],
  "num_records": 0,
  "notice": {
    "message": "The activity tracking report for volume \"FV\" in SVM
\"vs0\" returned zero records. Check whether the volume have read/write
traffic. Refer to the REST API documentation for more information on why
there might be no records.",
    "code": "124518418"
  },
  "_links": {
    "self": {
      "href": "/api/storage/volumes/9af63729-8ac8-11ec-b1bc-
005056a79da4/top-metrics/directories?top_metric=throughput.write"
    }
  }
}
```

## Retrieve directories with the greatest value performance metric or capacity metric

GET /storage/volumes/{volume.uuid}/top-metrics/directories

**Introduced In:** 9.10

Retrieves a list of directories with the greatest value performance metric or capacity metric.

### Parameters

| Name        | Type   | In   | Required | Description |
|-------------|--------|------|----------|-------------|
| volume.uuid | string | path | True     | Volume UUID |

| Name                         | Type    | In    | Required | Description                                                                                                                                                                                                                                |
|------------------------------|---------|-------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| top_metric                   | string  | query | False    | Type of performance metric or capacity metric.<br><br><ul style="list-style-type: none"> <li>• Default value: 1</li> <li>• enum: ["iops.read", "iops.write", "throughput.read", "throughput.write", "non_recursive_bytes_used"]</li> </ul> |
| max_records_per_volume       | integer | query | False    | Max records per volume.                                                                                                                                                                                                                    |
| non_recursive_bytes_used     | integer | query | False    | Filter by non_recursive_bytes_used<br><br><ul style="list-style-type: none"> <li>• Introduced in: 9.12</li> </ul>                                                                                                                          |
| path                         | string  | query | False    | Filter by path                                                                                                                                                                                                                             |
| throughput.error.upper_bound | integer | query | False    | Filter by throughput.error.upper_bound                                                                                                                                                                                                     |
| throughput.error.lower_bound | integer | query | False    | Filter by throughput.error.lower_bound                                                                                                                                                                                                     |
| throughput.read              | integer | query | False    | Filter by throughput.read                                                                                                                                                                                                                  |
| throughput.write             | integer | query | False    | Filter by throughput.write                                                                                                                                                                                                                 |
| svm.name                     | string  | query | False    | Filter by svm.name                                                                                                                                                                                                                         |
| svm.uuid                     | string  | query | False    | Filter by svm.uuid                                                                                                                                                                                                                         |
| volume.name                  | string  | query | False    | Filter by volume.name                                                                                                                                                                                                                      |

| Name                   | Type          | In    | Required | Description                                                                                                                                                                                                                                                                                                                                           |
|------------------------|---------------|-------|----------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| iops.read              | integer       | query | False    | Filter by iops.read                                                                                                                                                                                                                                                                                                                                   |
| iops.write             | integer       | query | False    | Filter by iops.write                                                                                                                                                                                                                                                                                                                                  |
| iops.error.upper_bound | integer       | query | False    | Filter by iops.error.upper_bound                                                                                                                                                                                                                                                                                                                      |
| iops.error.lower_bound | integer       | query | False    | Filter by iops.error.lower_bound                                                                                                                                                                                                                                                                                                                      |
| 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    | <p>The default is true for GET calls. When set to false, only the number of records is returned.</p> <ul style="list-style-type: none"> <li>• Default value: 1</li> </ul>                                                                                                                                                                             |
| return_timeout         | integer       | query | False    | <p>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.</p> <ul style="list-style-type: none"> <li>• Default value: 15</li> <li>• Max value: 120</li> <li>• Min value: 0</li> </ul> |
| order_by               | array[string] | query | False    | Order results by specified fields and optional [asc                                                                                                                                                                                                                                                                                                   |

## Response

Status: 200, Ok

| Name                       | Type                                           | Description                                                                                         |
|----------------------------|------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| _links                     | <a href="#">_links</a>                         |                                                                                                     |
| incomplete_response_reason | <a href="#">incomplete_response_reason</a>     | Indicates that the metric report provides incomplete data.                                          |
| notice                     | <a href="#">notice</a>                         | Optional field that indicates why no records are returned by the volume activity tracking REST API. |
| num_records                | integer                                        | Number of records.                                                                                  |
| partial_response_reason    | <a href="#">partial_response_reason</a>        | Indicates that the metric report provides partial data.                                             |
| records                    | array[ <a href="#">top_metrics_directory</a> ] |                                                                                                     |

## Example response

```
{
  "_links": {
    "next": {
      "href": "/api/resourcelink"
    },
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "incomplete_response_reason": {
    "code": "111411207",
    "message": "Partial data has been returned for this metric report. Reason: Data collection for the large directory report is in progress."
  },
  "notice": {
    "code": "111411207",
    "message": "No read/write traffic on volume."
  },
  "num_records": 1,
  "partial_response_reason": {
    "code": "124518424",
    "message": "The top metrics report contains partial data for read operations because NFSv4 reads using Multi-Processor I/O (MPIO) are not tracked."
  },
  "records": [
    {
      "_links": {
        "metadata": {
          "href": "/api/resourcelink"
        },
        "self": {
          "href": "/api/resourcelink"
        }
      },
      "iops": {
        "error": {
          "lower_bound": 34,
          "upper_bound": 54
        },
        "read": 10,
        "write": 5
      },
      "non_recursive_bytes_used": 300,
```

```

"path": "/dir_abc/dir_123/dir_20",
"svm": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "svm1",
  "uuid": "02c9e252-41be-11e9-81d5-00a0986138f7"
},
"throughput": {
  "error": {
    "lower_bound": 34,
    "upper_bound": 54
  },
  "read": 3,
  "write": 20
},
"volume": {
  "_links": {
    "self": {
      "href": "/api/resourcelink"
    }
  },
  "name": "volume1",
  "uuid": "028baa66-41bd-11e9-81d5-00a0986138f7"
}
}
]
}

```

## Error

Status: Default

### ONTAP Error Response Codes

| Error Code | Description                                                             |
|------------|-------------------------------------------------------------------------|
| 124518405  | Volume activity tracking is not supported on volumes that contain LUNs. |
| 124518407  | Volume activity tracking is not supported on FlexCache volumes.         |

| Error Code | Description                                                                                                                                                                                           |
|------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 124518408  | Volume activity tracking is not supported on audit staging volumes.                                                                                                                                   |
| 124518409  | Volume activity tracking is not supported on object store server volumes.                                                                                                                             |
| 124518410  | Volume activity tracking is not supported on SnapMirror destination volumes.                                                                                                                          |
| 124518411  | Enabling or disabling volume activity tracking is not supported on individual FlexGroup constituents.                                                                                                 |
| 124518412  | Volume activity tracking is not supported on SnapLock volumes.                                                                                                                                        |
| 124518414  | Volume activity tracking is not supported on volumes that contain NVMe namespaces.                                                                                                                    |
| 124518415  | Failed to get the volume activity tracking report on volume volume.name in SVM svm.name.                                                                                                              |
| 124518416  | Internal error. Volume activity tracking report timed out for volume volume.name in SVM svm.name.                                                                                                     |
| 124518417  | Volume wildcard queries are not supported for activity tracking reports.                                                                                                                              |
| 124518418  | The activity tracking report for volume volume.name in SVM svm.name returned zero records. Check whether the volume has read/write traffic. Refer to the REST API documentation for more information. |
| 124518422  | Volume activity tracking is not supported on All SAN Array clusters.                                                                                                                                  |
| 124518423  | Volume activity tracking is not supported on the volume.                                                                                                                                              |
| 124519410  | The large directory report for volume volume.name in SVM svm.name is not available because the file system analytics database version doesn't support this report.                                    |
| 124519411  | Volume activity tracking is not enabled on the volume.                                                                                                                                                |

Also see the table of common errors in the [Response body](#) overview section of this documentation.

| Name  | Type                           | Description |
|-------|--------------------------------|-------------|
| error | <a href="#">returned_error</a> |             |

### 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 | <a href="#">href</a> |             |
| self | <a href="#">href</a> |             |

incomplete\_response\_reason

Indicates that the metric report provides incomplete data.

| Name    | Type   | Description                                            |
|---------|--------|--------------------------------------------------------|
| code    | string | Warning code indicating why partial data was reported. |
| message | string | A message describing the reason for partial data.      |

notice

Optional field that indicates why no records are returned by the volume activity tracking REST API.

| Name    | Type   | Description                                          |
|---------|--------|------------------------------------------------------|
| code    | string | Warning code indicating why no records are returned. |
| message | string | Details why no records are returned.                 |

partial\_response\_reason

Indicates that the metric report provides partial data.

| Name    | Type   | Description                                            |
|---------|--------|--------------------------------------------------------|
| code    | string | Warning code indicating why partial data was reported. |
| message | string | A message describing the reason for partial data.      |

\_links

| Name     | Type                 | Description |
|----------|----------------------|-------------|
| metadata | <a href="#">href</a> |             |
| self     | <a href="#">href</a> |             |

top\_metric\_value\_error\_bounds

| Name        | Type    | Description                                   |
|-------------|---------|-----------------------------------------------|
| lower_bound | integer | Lower bound of the nominal value of a metric. |
| upper_bound | integer | Upper bound of the nominal value of a metric. |

iops

| Name  | Type                                          | Description                                    |
|-------|-----------------------------------------------|------------------------------------------------|
| error | <a href="#">top_metric_value_error_bounds</a> |                                                |
| read  | integer                                       | Average number of read operations per second.  |
| write | integer                                       | Average number of write operations per second. |

\_links

| Name | Type                 | Description |
|------|----------------------|-------------|
| self | <a href="#">href</a> |             |

svm

SVM, applies only to SVM-scoped objects.

| Name   | Type                   | Description                                                                         |
|--------|------------------------|-------------------------------------------------------------------------------------|
| _links | <a href="#">_links</a> |                                                                                     |
| name   | string                 | The name of the SVM. This field cannot be specified in a PATCH method.              |
| uuid   | string                 | The unique identifier of the SVM. This field cannot be specified in a PATCH method. |

## throughput

| Name  | Type                                          | Description                                        |
|-------|-----------------------------------------------|----------------------------------------------------|
| error | <a href="#">top_metric_value_error_bounds</a> |                                                    |
| read  | integer                                       | Average number of read bytes received per second.  |
| write | integer                                       | Average number of write bytes received per second. |

## volume

| Name                   | Type                   | Description                                                                                                                                                                                                                                                                                                     |
|------------------------|------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <a href="#">_links</a> | <a href="#">_links</a> |                                                                                                                                                                                                                                                                                                                 |
| name                   | string                 | The name of the volume. This field cannot be specified in a PATCH method.                                                                                                                                                                                                                                       |
| uuid                   | string                 | Unique identifier for the volume. This corresponds to the instance-uuid that is exposed in the CLI and ONTAPI. It does not change due to a volume move. <ul style="list-style-type: none"><li>• example: 028baa66-41bd-11e9-81d5-00a0986138f7</li><li>• Introduced in: 9.6</li><li>• x-nullable: true</li></ul> |

## top\_metrics\_directory

Information about a directory's IO metrics.

| Name                     | Type                       | Description                                              |
|--------------------------|----------------------------|----------------------------------------------------------|
| <a href="#">_links</a>   | <a href="#">_links</a>     |                                                          |
| iops                     | <a href="#">iops</a>       |                                                          |
| non_recursive_bytes_used | integer                    | Non-recursive bytes used by the contents of a directory. |
| path                     | string                     | Path of the directory.                                   |
| svm                      | <a href="#">svm</a>        | SVM, applies only to SVM-scoped objects.                 |
| throughput               | <a href="#">throughput</a> |                                                          |

| Name   | Type                   | Description |
|--------|------------------------|-------------|
| volume | <a href="#">volume</a> |             |

error\_arguments

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

returned\_error

| Name      | Type                                     | Description                                 |
|-----------|------------------------------------------|---------------------------------------------|
| arguments | array[ <a href="#">error_arguments</a> ] | Message arguments                           |
| code      | string                                   | Error code                                  |
| message   | string                                   | Error message                               |
| target    | string                                   | The target parameter that caused the error. |

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