



ListVolumeQoSHistograms

Element Software

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Table of Contents

- ListVolumeQoSHistograms 1
- Parameters 1
- Return value 1
- Request example 1
- Response example 1

ListVolumeQoSHistograms

You can use the `ListVolumeQoSHistograms` method to generate a histogram of volume QoS usage for one volume or multiple volumes. This enables you to better understand how volumes are using QoS.

Parameters

This method has the following input parameters:

Name	Description	Type	Default value	Required
volumeIDs	An optional list of volume IDs specifying which volumes should have QoS histograms generated.	integer array	None	No

Return value

This method has the following return value:

Name	Description	Type
qosHistograms	A list of objects describing volume usage for one or more volumes.	JSON object array

Request example

Requests for this method are similar to the following example:

```
{
  "method": "ListVolumeQoSHistograms",
  "params": {
    "volumeIDs": [1]
  },
  "id": 1
}
```

Response example

This method returns a response similar to the following example:

```

{
  "id": 1,
  "result": {
    "qosHistograms": [
      {
        "histograms": {
          "belowMinIopsPercentages": {
            "Bucket1To19": 2406,
            "Bucket20To39": 3,
            "Bucket40To59": 0,
            "Bucket60To79": 4,
            "Bucket80To100": 0
          },
          "minToMaxIopsPercentages": {
            "Bucket101Plus": 0,
            "Bucket1To19": 0,
            "Bucket20To39": 0,
            "Bucket40To59": 2,
            "Bucket60To79": 0,
            "Bucket80To100": 0
          },
          "readBlockSizes": {
            "Bucket131072Plus": 0,
            "Bucket16384To32767": 0,
            "Bucket32768To65535": 0,
            "Bucket4096To8191": 0,
            "Bucket65536To131071": 0,
            "Bucket8192To16383": 0
          },
          "targetUtilizationPercentages": {
            "Bucket0": 134943,
            "Bucket101Plus": 0,
            "Bucket1To19": 2409,
            "Bucket20To39": 4,
            "Bucket40To59": 0,
            "Bucket60To79": 2,
            "Bucket80To100": 0
          },
          "throttlePercentages": {
            "Bucket0": 137358,
            "Bucket1To19": 0,
            "Bucket20To39": 0,
            "Bucket40To59": 0,
            "Bucket60To79": 0,
            "Bucket80To100": 0
          }
        },
      },
    ],
  },
}

```

```
        "writeBlockSizes": {
          "Bucket131072Plus": 0,
          "Bucket16384To32767": 0,
          "Bucket32768To65535": 0,
          "Bucket4096To8191": 0,
          "Bucket65536To131071": 0,
          "Bucket8192To16383": 0
        }
      },
      "timestamp": "2018-06-21T18:45:52.010844Z",
      "volumeID": 1
    }
  ]
}
}
```

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