Working with Service Monitors

Summary

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GET
/api/v1/elements/{id}/metrics
/api/v1/monitors
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/api/v1/monitors /{id} /status
```

GET /api/v1/elements/{id}/metrics

Lists all metrics visible to the authenticated user account. Using the standard API format, the metrics task can be called against one Element at a time, based on ID:

GET https://youruptime/api/v1/elements/<id>/metrics/<metric>

Multiple Elements can first be filtered by the date and time of the results returned based on start and end timestamp:

GET https://youruptime/api/v1/elements/<id>/metrics/<metric>?
StartDateTime=<startdatetime>&EndDateTime=<enddatetime>

Either or both StartDateTime and EndDateTime can be included. If both are included, only data points between and equal to the supplied datetimes are included. If only StartDateTime is included, only values from that point forward are included. If only EndDateTime is included, only values prior to and including are included.

Arguments

The following arguments may be passed on the call to the API:

| Field | Required | Description | |
|---------------|----------|--------------------------------------------------------------------------------------|--|
| metricType | Yes | The type of metrics to return: 2 = Int; 3 = Decimal; 4 = String. | |
| startDateTime | No | The start time of the period for the desired metrics in the 'ddMMyyyyHHmmss' format. | |
| endDateTime | No | The end time of the period for the desired metrics in the 'ddMMyyyyHHmmss' format. | |

Returned Fields

For the returned service monitor, the following fields are provided:

| Field | Туре | Description |
|------------|-------|--------------------------------------------------------------------------------------------------------------------|
| metricData | Array | An array listing all retained metrics for the given service monitor (see Metric Data Array below for more detail). |

Metric Data Array

The metric data array returns the following attributes for each retained metric grouped by the name of the metric:

| Field | Туре | Description |
|----------|-----------------------------|--------------------------------------------------|
| dataTime | String - Date Time | The data and time when the metric was collected. |
| value | Integer, Decimal, or String | The metric value. |

Response Codes

The following common response codes may result from this operation:

| Response Code | Code HTTP Status Code | Details |
|------------------|-----------------------|---------|
|------------------|-----------------------|---------|

| UT-0400 | Bad Request | 400 | The request could not be processed by the server due to incorrect syntax. | |
|---------|--------------------------|-----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | | | API commands can be accessed with this format: | |
| | | | https:// <hostname>:<port>/api/<api_version>/<end_point>/<id>/<task></task></id></end_point></api_version></port></hostname> | |
| | | | If you encounter this error, ensure the referencing URL is correct. | |
| UT-0404 | Resource Not Found | 404 | The request could not be processed because an object is missing. The endpoint may be omitted from the command, or was spelled incorrectly. | |
| UT-0405 | Method Not Allowed | 405 | The user does not have permission to perform the requested action. The user's Uptime Infrastructure Monitor permissions (for example, not permitted to Add Elements, Edit, or Delete Elements) stops them from doing the same though the API (POST, PUT, DELETE, respectively). | |
| UT-0500 | Unknown | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. View the uptime_controller.log file for possible issues. | |
| UT-0555 | Unknown Exception | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. In this case, an exception has occurred; as a starting point, look for this exception in the uptime_controller.log file. | |
| UT-0560 | Internal Server Error | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. In this case, an exception caused a stack trace; as a starting point, look for this stack trace in the uptime_controller.log file. | |

Other response codes that may occur include the following:

| Response Code | Code Description | HTTP Status Code | Details | |
|------------------|---------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| | ОК | 200 | Information retrieved successfully. | |
| UT-1000 | Element Does Not Exist | 404 | A specifically referenced Element ID does not exist. In such a case, referencing: https://youruptime:9997/api/v1/elements/12345 returns the following: The element id '12345' does not exist. The Element ID endpoint may be omitted, was inputted incorrectly, or is ignored in Uptime Infrastructure Monitor. | |
| UT-1010 | Element Filter Expired | 410 | The referenced filter is expired. Created filters persist, by default, for five minutes. | |
| UT-1012 | Element Group Filter Expired | 410 | The referenced group filter is expired. Created filters persist, by default, for five minutes. | |
| UT-1013 | Invalid Element Filter | 400 | The JSON used to create an Element filter is invalid, and cannot be parsed. Check to ensure you are posting well-formed JSON. | |
| UT-1015 | Invalid Element Group Filter | 400 | The JSON used to create an Element group filter is invalid, and cannot be parsed. Check to ensure you are posting well-formed JSON. | |
| UT-1028 | URL ID Body Mismatch | 400 | The Element ID in the URL and the JSON object do not match. | |

Example

GET https://youruptime/api/v1/elements/1/metrics/1?metricType=2&startDateTime=01012015000000&endDateTime=01012015001000

GET /api/v1/monitors

List service monitors visible to the authenticated user account.

Returned Fields

For each returned service monitor the following fields are provided:

| Field | Туре | Description | | |
|-------------|---------|---------------------------------------------------------------------------------------------------|--|--|
| description | String | description of this service monitor | | |
| elementId | Integer | ID for this service monitor's parent Element; can return a null value for unassigned monitors | | |
| id | Integer | ID for this Element | | |
| isHidden | Boolean | nidden monitors are internal monitors that Uptime Infrastructure Monitor uses, and can be ignored | | |
| isMonitored | Boolean | monitoring status for this Element | | |
| isHostCheck | Boolean | returns true if this service monitor is the host check for its parent Element | | |
| name | String | display name of the service monitor | | |
| type | String | the service monitor type, typically as seen in the Uptime Infrastructure Monitor UI | | |

Response Codes

The following common response codes may result from this operation:

| Response Code | Code Description | HTTP Status Code | Details | |
|------------------|--------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| UT-0400 | Bad Request | 400 | The request could not be processed by the server due to incorrect syntax. | |
| | | | API commands can be accessed with this format: | |
| | | | https:// <hostname>:<port>/api/<api_version>/<end_point>/<id>/<task></task></id></end_point></api_version></port></hostname> | |
| | | | If you encounter this error, ensure the referencing URL is correct. | |
| UT-0404 | Resource Not Found | 404 | The request could not be processed because an object is missing. The endpoint may be omitted from the command, or was spelled incorrectly. | |
| UT-0405 | Method Not Allowed | 405 | The user does not have permission to perform the requested action. The user's Uptime Infrastructure Monitor permissions (for example, not permitted to Add Elements, Edit, or Delete Elements) stops them from doing the same though the API (POST, PUT, DELETE, respectively). | |
| UT-0500 | Unknown | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. View the uptime_controller.log file for possible issues. | |
| UT-0555 | Unknown Exception | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. In this case, an exception has occurred; as a starting point, look for this exception in the uptime_controller.log file. | |
| UT-0560 | Internal Server Error | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. In this case, an exception caused a stack trace; as a starting point, look for this stack trace in the uptime_controller.log file. | |

Other response codes that may occur include the following:

| Response Code | Code Description | HTTP Status Code | Details |
|---------------|------------------------|------------------|------------------------------------------------------------------------------------------|
| | ОК | 200 | Information retrieved successfully. |
| UT-1011 | Monitor Filter Expired | 410 | The referenced filter is expired. Created filters persist, by default, for five minutes. |
| UT-1014 | Invalid Monitor Filter | 400 | The referenced Element filter does not exist. |

Example

To list all service monitors:

GET https://youruptime/api/v1/monitors/

```
{
     "description": "Collects basic performance data",
      "elementId": 1,
     "id": 3,
     "isHidden": true,
     "isHostCheck": false,
     "isMonitored": true,
     "name": "Platform Performance Gatherer",
      "type": "ERDCwindows"
  },
     "description": "",
     "elementId": 1,
     "id": 331,
     "isHidden": false,
      "isHostCheck": false,
      "isMonitored": true,
     "name": "FS-monitor-warning win-dleith",
     "type": "File System Capacity"
  },
      "description": "Default uptime check for win-dleith",
      "elementId": 1,
     "id": 1,
     "isHidden": false,
     "isHostCheck": false,
     "isMonitored": true,
     "name": "UPTIME-win-dleith",
      "type": "Uptime Agent"
     "description": "Collects general configuration changes",
     "elementId": 1,
     "id": 4,
     "isHidden": true,
     "isHostCheck": false,
     "isMonitored": true,
     "name": "Configuration Update Gatherer",
     "type": "ERDCwindows"
  },
      "description", "Default ping check for win-dleith",
      "elementId": 1,
     "id": 2,
     "isHidden": false,
     "isHostCheck": true,
     "isMonitored": true,
     "name": "PING-win-dleith",
      "type": "Ping"
     "description", "Default ping check for rd-01",
     "elementId": 8,
     "id": 306,
      "isHidden": false,
      "isHostCheck": true,
     "isMonitored": true,
     "name": "PING-rh-01"
     "type": "Ping"
  },
]
```

GET /api/v1/monitors/{id}

List a specific service monitor.

Returned Fields

For each returned service monitor the following fields are provided:

| Field | Туре | Description | |
|-------------|---------|---------------------------------------------------------------------------------------------------|--|
| description | String | description of this service monitor | |
| elementId | Integer | ID for this service monitor's parent Element; can return a null value for unassigned monitors | |
| id | Integer | ID for this Element | |
| isHidden | Boolean | hidden monitors are internal monitors that Uptime Infrastructure Monitor uses, and can be ignored | |
| isMonitored | Boolean | monitoring status for this Element | |
| isHostCheck | Boolean | returns true if this service monitor is the host check for its parent Element | |
| isHidden | Boolean | hidden monitors are internal monitors that Uptime Infrastructure Monitor uses, and can be ignored | |
| name | String | display name of the service monitor | |
| type | String | the service monitor type, typically as seen in the Uptime Infrastructure Monitor UI | |

Response Codes

The following common response codes may result from this operation:

| Response Code | Code Description | HTTP Status Code | Details | |
|------------------|--------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| UT-0400 | Bad Request | 400 | The request could not be processed by the server due to incorrect syntax. API commands can be accessed with this format: | |
| | | | https:// <hostname>:<port>/api/<api_version>/<end_point>/<id>/<task></task></id></end_point></api_version></port></hostname> | |
| | | | If you encounter this error, ensure the referencing URL is correct. | |
| UT-0404 | Resource Not Found | 404 | The request could not be processed because an object is missing. The endpoint may be omitted from the command, or was spelled incorrectly. | |
| UT-0405 | Method Not Allowed | 405 | The user does not have permission to perform the requested action. The user's Uptime Infrastructure Monitor permissions (for example, not permitted to Add Elements, Edit, or Delete Elements) stops them from doing the same though the API (POST, PUT, DELETE, respectively). | |
| UT-0500 | Unknown | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. View the uptime_controller.log file for possible issues. | |
| UT-0555 | Unknown Exception | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. In this case, an exception has occurred; as a starting point, look for this exception in the uptime_controller.log file. | |
| UT-0560 | Internal Server Error | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. In this case, an exception caused a stack trace; as a starting point, look for this stack trace in the uptime_controller.log file. | |

Other response codes that may occur include the following:

| Response Code | Code Description | HTTP Status Code | Details |
|---------------|------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ОК | 200 | Information retrieved successfully. |
| UT-1001 | Monitor Does Not Exist | 404 | A specifically referenced service monitor ID does not exist. In such a case, referencing https://youruptime:9997/api/v1/monitors/456/ returns the following: The service monitor id '456' does not exist. |
| UT-1011 | Monitor Filter Expired | 410 | The referenced filter is expired. Created filters persist, by default, for five minutes. |
| UT-1014 | Invalid Monitor Filter | 400 | The referenced Element filter does not exist. |

Example

List a specific service monitor (for example, ID #364):

GET https://youruptime/api/v1/monitors/364

```
{
  "description": "Collects basic performance data",
  "elementId": 1,
  "id": 3,
  "isHidden": true,
  "isHostCheck": false,
  "isMonitored": true,
  "name": "Platform Performance Gatherer",
  "type": "ERDCwindows"
}
```

GET /api/v1/monitors/{id}/status

Produces basic availability information, similar to the status shown on Global Scan. The 'status' task can only be called against one service monitor at a time, based on ID.

Returned Fields

For the returned Element, the following fields are provided:

| Field | Туре | Description | | |
|--------------------|--------------------|-----------------------------------------------------------------------------------------------------------------------|--|--|
| elementId | Integer | ID for this service monitor's parent Element; can be null for unassigned monitors | | |
| elementStatus | Object | an object listing the status of the parent Element for this monitor (see Element Status Object below for more detail) | | |
| id | Integer | ID for this service monitor | | |
| isMonitored | Boolean | monitoring Status for this service monitor | | |
| isHidden | Boolean | hidden monitors are internal monitors that Uptime Infrastructure Monitor uses, and can be ignored | | |
| isHostCheck | Boolean | returns true if this service monitor is the host check for its parent Element | | |
| lastCheckTime | String - Date Time | the last time this service monitor was executed successfully | | |
| lastTransitionTime | String - Date Time | the last time this service monitor changed status, which can be used to determine time in its current status | | |
| message | String | output message produced the last time the service monitor was executed | | |
| name | String | name of this service monitor | | |
| status | String | last known status of this service monitor | | |

Element Status Object

If this service monitor has a parent Element, its status details are listed in the ${\tt elementStatus}$ object:

| Field | Туре | Description | |
|---------------|--------------------|-------------------------------------------------------------------------|--|
| id | Integer | ID of the parent Element | |
| isMonitored | Boolean | monitoring status for the parent Element | |
| name | String | display name of the parent Element | |
| message | String | output message produced the last time the parent Element changed status | |
| status | String | last known status of the parent Element | |
| lastCheckTime | String - Date Time | the last time the parent Element's status was successfully checked | |

| lastTransitionTime | String - Date Time | the last time the parent Element changed status, which can be used to determine time in its current status |
|-------------------------------|--------------------|--------------------------------------------------------------------------------------------------------------------|
| powerState String the current | | the current power state of the parent Element (only provided for virtual Elements; all other Elements return null) |

Response Codes

The following common response codes may result from this operation:

| Response Code | Code Description | HTTP Status Code | Details | |
|------------------|--------------------------|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| UT-0400 | Bad Request | 400 | The request could not be processed by the server due to incorrect syntax. | |
| | | | API commands can be accessed with this format: | |
| | | | https:// <hostname>:<port>/api/<api_version>/<end_point>/<id>/<task></task></id></end_point></api_version></port></hostname> | |
| | | | If you encounter this error, ensure the referencing URL is correct. | |
| UT-0404 | Resource Not Found | 404 | The request could not be processed because an object is missing. The endpoint may be omitted from the command, or was spelled incorrectly. | |
| UT-0405 | Method Not Allowed | 405 | The user does not have permission to perform the requested action. The user's Uptime Infrastructure Monitor permissions (for example, not permitted to Add Elements, Edit, or Delete Elements) stops them from doing the same though the API (POST, PUT, DELETE, respectively). | |
| UT-0500 | Unknown | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. View the uptime_controller.log file for possible issues. | |
| UT-0555 | Unknown Exception | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. In this case, an exception has occurred; as a starting point, look for this exception in the uptime_controller.log file. | |
| UT-0560 | Internal Server Error | 500 | The corresponding HTTP error code (500) is a catch-all error generated by the Web server where an unexpected condition prevented fulfilling the request. In this case, an exception caused a stack trace; as a starting point, look for this stack trace in the uptime_controller.log file. | |

Other response codes that may occur include the following:

| Response Code | Code Description | HTTP Status Code | Details |
|---------------|------------------------|------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| | ОК | 200 | Information retrieved successfully. |
| UT-1001 | Monitor Does Not Exist | 404 | A specifically referenced service monitor ID does not exist. In such a case, referencing https://youruptime:9997/api/v1/monitors/456/ returns the following: The service monitor id '456' does not exist. |
| UT-1011 | Monitor Filter Expired | 410 | The referenced filter is expired. Created filters persist, by default, for five minutes. |
| UT-1014 | Invalid Monitor Filter | 400 | The referenced Element filter does not exist. |

Example

GET https://youruptime/api/v1/monitors/1/status

```
"elementId": 1,
"elementStatus":
{
     "id": 1,
     "isMonitored": true,
     "lastCheckTime": "2012-09-17T14:14:17",
     "lastTransitionTime": "2012-09-13T11:34:24",
     "message": "",
      "name": "win-dleith",
      "powerState": "On",
     "status": "OK"
},
"id": 1,
"isHidden": false,
"isHostCheck": false,
"isMonitored": true,
"lastCheckTime": "2012-09-17T14:13:56",
"lastTransitionTime": "2012-09-13T11:34:38",
"message": "",
"name": "UPTIME-win-dleith",
"status": "UNKNOWN"
```