# API Server Public Rest API

## Scaling History API

### **List scaling history of an application**

#### **GET /v1/apps/:guid/scaling\_history**

#### **Request**

##### Route

GET /v1/apps/8d0cee08-23ad-4813-a779-ad8118ea0b91/scaling\_histories

##### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Valid values | Required | Example values |
| guid | The GUID of the application |  | true |  |
| start-time | The start time | int, the number of nanoseconds elapsed since January 1, 1970 UTC. | false | start-time=1494989539138350432 |
| end-time | The end time | int, the number of nanoseconds elapsed since January 1, 1970 UTC. | false | end-time=1494989549117047288 |
| order | The order type. The scaling history will be order by timestamp asc or desc. | string,”asc” or “desc” | false. default desc | order=desc |
| page | The page number to query | int | false  default  1 | page=1 |
| results-per-page | The number of results per page | int | false.  default 10 | results-per-page=10 |

##### Headers

Authorization: bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoidWFhLWlkLTQwOCIsImVtYWlsIjoiZW1haWwtMzAzQHNvbWVkb21haW4uY29tIiwic2NvcGUiOlsiY2xvdWRfY29udHJvbGxlci5hZG1pbiJdLCJhdWQiOlsiY2xvdWRfY29udHJvbGxlciJdLCJleHAiOjE0NDU1NTc5NzF9.RMJZvSzCSxpj4jjZBmzbO7eoSfTAcIWVSHqFu5\_Iu\_o

##### cURL

#### curl "https://[the-api-server-url]:[port]/v1/apps/8d0cee08-23ad-4813-a779-ad8118ea0b91/scaling\_histories?start-time=1494989539138350432&end-time=1494989539138399999&order=desc&page=1&results-per-page=10" -X GET \ -H "Authorization: bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoidWFhLWlkLTQwOCIsImVtYWlsIjoiZW1haWwtMzAzQHNvbWVkb21haW4uY29tIiwic2NvcGUiOlsiY2xvdWRfY29udHJvbGxlci5hZG1pbiJdLCJhdWQiOlsiY2xvdWRfY29udHJvbGxlciJdLCJleHAiOjE0NDU1NTc5NzF9.RMJZvSzCSxpj4jjZBmzbO7eoSfTAcIWVSHqFu5\_Iu\_o" \

#### Response

##### Status

200 OK

##### Body

{

"total\_results": 2,

"total\_pages": 1,

"page": 1,

"resources": [

{

"app\_guid": "8d0cee08-23ad-4813-a779-ad8118ea0b91",

"timestamp": 1494989539138350433,

"scaling\_type": 1,

"status": 0,

"old\_instances": 1,

"new\_instances": 2,

"reason": "",

"message": "",

"error": ""

},

{

"app\_guid": "8d0cee08-23ad-4813-a779-ad8118ea0b91",

"timestamp": 1494989539138350435,

"scaling\_type": 1,

"status": 0,

"old\_instances": 1,

"new\_instances": 2,

"reason": "",

"message": "",

"error": ""

}

]

}

## Application Metric API

### **List metrics of an application**

#### **GET /v1/apps/:guid/metrics**

#### **Request**

##### Route

GET /v1/apps/8d0cee08-23ad-4813-a779-ad8118ea0b91/metrics

##### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Valid values | Required | Example values |
| guid | The GUID of the application |  | true |  |
| metric-type | The metric type |  | true | metric-type=memoryused |
| start-time | The start time | int, the number of nanoseconds elapsed since January 1, 1970 UTC. | true | start-time=1494989539138350432 |
| end-time | The end time | int, the number of nanoseconds elapsed since January 1, 1970 UTC. | true | end-time=1494989549117047288 |
| order | The order type. The scaling history will be order by timestamp asc or desc. | string,”asc” or “desc” | false. default desc | order=asc |
| page | The page number to query | int | true | page=1 |
| results-per-page | The number of results per page | int | true | results-per-page=10 |

##### Headers

Authorization: bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoidWFhLWlkLTQwOCIsImVtYWlsIjoiZW1haWwtMzAzQHNvbWVkb21haW4uY29tIiwic2NvcGUiOlsiY2xvdWRfY29udHJvbGxlci5hZG1pbiJdLCJhdWQiOlsiY2xvdWRfY29udHJvbGxlciJdLCJleHAiOjE0NDU1NTc5NzF9.RMJZvSzCSxpj4jjZBmzbO7eoSfTAcIWVSHqFu5\_Iu\_o

##### cURL

#### curl "https://[the-api-server-url]:[port]/v1/apps/8d0cee08-23ad-4813-a779-ad8118ea0b91/metrics?start-time=1494989539138350432&end-time=1494989539138399999&metricType=memoryused&orer=asc&page=1&results-per-page=10" -X GET \ -H "Authorization: bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoidWFhLWlkLTQwOCIsImVtYWlsIjoiZW1haWwtMzAzQHNvbWVkb21haW4uY29tIiwic2NvcGUiOlsiY2xvdWRfY29udHJvbGxlci5hZG1pbiJdLCJhdWQiOlsiY2xvdWRfY29udHJvbGxlciJdLCJleHAiOjE0NDU1NTc5NzF9.RMJZvSzCSxpj4jjZBmzbO7eoSfTAcIWVSHqFu5\_Iu\_o" \

#### Response

##### Status

200 OK

##### Body

[

"total\_results": 2,

"total\_pages": 1,

"page": 1,

"resources": [

{

"app\_guid": "8d0cee08-23ad-4813-a779-ad8118ea0b91",

"instanceIndex": 0,

"timestamp": 1494989539138350433,

"collected\_at": 1494989539138350000,

"metric\_type": "memoryused",

"value": "400",

"unit": "megabytes"

},

{

"app\_guid": "8d0cee08-23ad-4813-a779-ad8118ea0b91",

"instance\_index": 1,

"timestamp": 1494989539138350433,

"collected\_at": 1494989539138350000,

"metric\_type": "memoryused",

"value": "400",

"unit": "megabytes"

}

]

]

## Policy API

### Set Policy

#### PUT /v1/apps/:guid/policy

#### Request

##### Route

PUT /v1/apps/:guid/policy

##### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Valid values | Required | Example values |
| guid | The GUID of the application |  | true |  |

##### Body

{

"instance\_min\_count": 1,

"instance\_max\_count": 4,

"name": "autoscaler policy"

"scaling\_rules": [

{

"metric\_type": "memoryused",

"stat\_window\_secs": 300,

"breach\_duration\_secs": 600,

"threshold": 30,

"operator": "<",

"cool\_down\_secs": 300,

"adjustment": "-1"

},

{

"metric\_type": "memoryused",

"stat\_window\_secs": 300,

"breach\_duration\_secs": 600,

"threshold": 90,

"operator": ">=",

"cool\_down\_secs": 300,

"adjustment": "+1"

}

],

"schedules": {

"timezone": "Asia/Shanghai",

"recurring\_schedule": [

{

"start\_time": "10:00",

"end\_time": "18:00",

"days\_of\_week": [

1,

2,

3

],

"instance\_min\_count": 1,

"instance\_max\_count": 10,

"initial\_min\_instance\_count": 5

},

{

"start\_date": "2016-06-27",

"end\_date": "2016-07-23",

"start\_time": "11:00",

"end\_time": "19:30",

"days\_of\_month": [

5,

15,

25

],

"instance\_min\_count": 3,

"instance\_max\_count": 10,

"initial\_min\_instance\_count": 5

},

{

"start\_time": "10:00",

"end\_time": "18:00",

"days\_of\_week": [

4,

5,

6

],

"instance\_min\_count": 1,

"instance\_max\_count": 10

},

{

"start\_time": "11:00",

"end\_time": "19:30",

"days\_of\_month": [

10,

20,

30

],

"instance\_min\_count": 1,

"instance\_max\_count": 10

}

],

"specific\_date": [

{

"start\_date\_time": "2015-06-02T10:00",

"end\_date\_time": "2015-06-15T13:59",

"instance\_min\_count": 1,

"instance\_max\_count": 4,

"initial\_min\_instance\_count": 2

},

{

"start\_date\_time": "2015-01-04T20:00",

"end\_date\_time": "2015-02-19T23:15",

"instance\_min\_count": 2,

"instance\_max\_count": 5,

"initial\_min\_instance\_count": 3

}

]

}

}

##### Headers

Authorization: bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoidWFhLWlkLTQwOCIsImVtYWlsIjoiZW1haWwtMzAzQHNvbWVkb21haW4uY29tIiwic2NvcGUiOlsiY2xvdWRfY29udHJvbGxlci5hZG1pbiJdLCJhdWQiOlsiY2xvdWRfY29udHJvbGxlciJdLCJleHAiOjE0NDU1NTc5NzF9.RMJZvSzCSxpj4jjZBmzbO7eoSfTAcIWVSHqFu5\_Iu\_o

##### cURL

curl "https://[the-api-server-url]:[port]/v1/apps/8d0cee08-23ad-4813-a779-ad8118ea0b91/policy" -d @policy.json -X POST \  
 -H "Authorization: bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoidWFhLWlkLTI5MSIsImVtYWlsIjoiZW1haWwtMTk0QHNvbWVkb21haW4uY29tIiwic2NvcGUiOlsiY2xvdWRfY29udHJvbGxlci5hZG1pbiJdLCJhdWQiOlsiY2xvdWRfY29udHJvbGxlciJdLCJleHAiOjE0NDU1NTc5NTd9.p3cHAMwwVASl1RWxrQuOMLYRZRe4rTbaIH1RRux3Q5Y" \

#### Response

##### Status

200 OK

##### Body

{

"app\_id": "8d0cee08-23ad-4813-a779-ad8118ea0b91",

"guid": "c29be336-7851-4d61-a0a9-084d625b4d43"

"policy\_json": {

"instance\_min\_count": 1,

"instance\_max\_count": 4,

"scaling\_rules": [

{

"metric\_type": "memoryused",

"stat\_window\_secs": 300,

"breach\_duration\_secs": 600,

"threshold": 30,

"operator": "<",

"cool\_down\_secs": 300,

"adjustment": "-1"

},

{

"metric\_type": "memoryused",

"stat\_window\_secs": 300,

"breach\_duration\_secs": 600,

"threshold": 90,

"operator": ">=",

"cool\_down\_secs": 300,

"adjustment": "+1"

}

],

"schedules": {

"timezone": "Asia/Shanghai",

"recurring\_schedule": [

{

"start\_time": "10:00",

"end\_time": "18:00",

"days\_of\_week": [

1,

2,

3

],

"instance\_min\_count": 1,

"instance\_max\_count": 10,

"initial\_min\_instance\_count": 5

},

{

"start\_date": "2016-06-27",

"end\_date": "2016-07-23",

"start\_time": "11:00",

"end\_time": "19:30",

"days\_of\_month": [

5,

15,

25

],

"instance\_min\_count": 3,

"instance\_max\_count": 10,

"initial\_min\_instance\_count": 5

},

{

"start\_time": "10:00",

"end\_time": "18:00",

"days\_of\_week": [

4,

5,

6

],

"instance\_min\_count": 1,

"instance\_max\_count": 10

},

{

"start\_time": "11:00",

"end\_time": "19:30",

"days\_of\_month": [

10,

20,

30

],

"instance\_min\_count": 1,

"instance\_max\_count": 10

}

],

"specific\_date": [

{

"start\_date\_time": "2015-06-02T10:00",

"end\_date\_time": "2015-06-15T13:59",

"instance\_min\_count": 1,

"instance\_max\_count": 4,

"initial\_min\_instance\_count": 2

},

{

"start\_date\_time": "2015-01-04T20:00",

"end\_date\_time": "2015-02-19T23:15",

"instance\_min\_count": 2,

"instance\_max\_count": 5,

"initial\_min\_instance\_count": 3

}

]

}

},

}

### Delete Policy

#### Delete /v1/apps/:guid/policy

#### Request

##### Route

DELETE /v1/apps/:guid/policy

##### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Valid values | Required | Example values |
| guid | The GUID of the application |  | true |  |

##### Headers

Authorization: bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoidWFhLWlkLTQwOCIsImVtYWlsIjoiZW1haWwtMzAzQHNvbWVkb21haW4uY29tIiwic2NvcGUiOlsiY2xvdWRfY29udHJvbGxlci5hZG1pbiJdLCJhdWQiOlsiY2xvdWRfY29udHJvbGxlciJdLCJleHAiOjE0NDU1NTc5NzF9.RMJZvSzCSxpj4jjZBmzbO7eoSfTAcIWVSHqFu5\_Iu\_o

##### cURL

curl "https://[the-api-server-url]:[port]/v1/apps/8d0cee08-23ad-4813-a779-ad8118ea0b91/policy" -X DELETE \  
 -H "Authorization: bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoidWFhLWlkLTI5MSIsImVtYWlsIjoiZW1haWwtMTk0QHNvbWVkb21haW4uY29tIiwic2NvcGUiOlsiY2xvdWRfY29udHJvbGxlci5hZG1pbiJdLCJhdWQiOlsiY2xvdWRfY29udHJvbGxlciJdLCJleHAiOjE0NDU1NTc5NTd9.p3cHAMwwVASl1RWxrQuOMLYRZRe4rTbaIH1RRux3Q5Y" \

#### Response

##### Status

200 OK

### Get Policy

#### GET /v1/apps/:guid/policy

#### Request

##### Route

GET /v1/apps/:guid/policy

##### Parameters

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Description | Valid values | Required | Example values |
| guid | The GUID of the application |  | true |  |

##### Headers

Authorization: bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoidWFhLWlkLTQwOCIsImVtYWlsIjoiZW1haWwtMzAzQHNvbWVkb21haW4uY29tIiwic2NvcGUiOlsiY2xvdWRfY29udHJvbGxlci5hZG1pbiJdLCJhdWQiOlsiY2xvdWRfY29udHJvbGxlciJdLCJleHAiOjE0NDU1NTc5NzF9.RMJZvSzCSxpj4jjZBmzbO7eoSfTAcIWVSHqFu5\_Iu\_o

##### cURL

curl "https://[the-api-server-url]:[port]/v1/apps/8d0cee08-23ad-4813-a779-ad8118ea0b91/policy" -X GET \  
 -H "Authorization: bearer eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VyX2lkIjoidWFhLWlkLTI5MSIsImVtYWlsIjoiZW1haWwtMTk0QHNvbWVkb21haW4uY29tIiwic2NvcGUiOlsiY2xvdWRfY29udHJvbGxlci5hZG1pbiJdLCJhdWQiOlsiY2xvdWRfY29udHJvbGxlciJdLCJleHAiOjE0NDU1NTc5NTd9.p3cHAMwwVASl1RWxrQuOMLYRZRe4rTbaIH1RRux3Q5Y" \

#### Response

##### Status

200 OK

##### Body

{

"instance\_min\_count": 1,

"instance\_max\_count": 4,

"scaling\_rules": [

{

"metric\_type": "memoryused",

"stat\_window\_secs": 300,

"breach\_duration\_secs": 600,

"threshold": 30,

"operator": "<",

"cool\_down\_secs": 300,

"adjustment": "-1"

},

{

"metric\_type": "memoryused",

"stat\_window\_secs": 300,

"breach\_duration\_secs": 600,

"threshold": 90,

"operator": ">=",

"cool\_down\_secs": 300,

"adjustment": "+1"

}

],

"schedules": {

"timezone": "Asia/Shanghai",

"recurring\_schedule": [

{

"start\_time": "10:00",

"end\_time": "18:00",

"days\_of\_week": [

1,

2,

3

],

"instance\_min\_count": 1,

"instance\_max\_count": 10,

"initial\_min\_instance\_count": 5

},

{

"start\_date": "2016-06-27",

"end\_date": "2016-07-23",

"start\_time": "11:00",

"end\_time": "19:30",

"days\_of\_month": [

5,

15,

25

],

"instance\_min\_count": 3,

"instance\_max\_count": 10,

"initial\_min\_instance\_count": 5

},

{

"start\_time": "10:00",

"end\_time": "18:00",

"days\_of\_week": [

4,

5,

6

],

"instance\_min\_count": 1,

"instance\_max\_count": 10

},

{

"start\_time": "11:00",

"end\_time": "19:30",

"days\_of\_month": [

10,

20,

30

],

"instance\_min\_count": 1,

"instance\_max\_count": 10

}

],

"specific\_date": [

{

"start\_date\_time": "2015-06-02T10:00",

"end\_date\_time": "2015-06-15T13:59",

"instance\_min\_count": 1,

"instance\_max\_count": 4,

"initial\_min\_instance\_count": 2

},

{

"start\_date\_time": "2015-01-04T20:00",

"end\_date\_time": "2015-02-19T23:15",

"instance\_min\_count": 2,

"instance\_max\_count": 5,

"initial\_min\_instance\_count": 3

}

]

}

}