



Rackspace Autoscale Developer Guide

API v1.0 (2013-07-22)

Copyright © 2013

Copyright © 2013 Rackspace US, Inc. All rights reserved.

The document is for informational purposes only and is provided "AS IS."

RACKSPACE MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, AS TO THE ACCURACY OR COMPLETENESS OF THE CONTENTS OF THIS DOCUMENT AND RESERVES THE RIGHT TO MAKE CHANGES TO SPECIFICATIONS AND PRODUCT/SERVICES DESCRIPTION AT ANY TIME WITHOUT NOTICE. RACKSPACE SERVICES OFFERINGS ARE SUBJECT TO CHANGE WITHOUT NOTICE. USERS MUST TAKE FULL RESPONSIBILITY FOR APPLICATION OF ANY SERVICES MENTIONED HEREIN. EXCEPT AS SET FORTH IN RACKSPACE GENERAL TERMS AND CONDITIONS AND/OR CLOUD TERMS OF SERVICE, RACKSPACE ASSUMES NO LIABILITY WHATSOEVER, AND DISCLAIMS ANY EXPRESS OR IMPLIED WARRANTY, RELATING TO ITS SERVICES INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE, AND NONINFRINGEMENT.

Except as expressly provided in any written license agreement from Rackspace, the furnishing of this document does not give you any license to patents, trademarks, copyrights, or other intellectual property.

Rackspace®, Rackspace logo and Fanatical Support® are registered service marks of Rackspace US, Inc. All other product names and trademarks used in this document are for identification purposes only and are property of their respective owners.

Table of Contents

| 1. | Overview | 1 |
|----|--|-----|
| | 1.1. Intended Audience | 1 |
| | 1.2. Document Change History | |
| | 1.3. Additional Resources | |
| | 1.4. API Contract Changes | |
| | 1.5. Pricing and Service Level | |
| 2 | Concepts | |
| | General API Information | |
| ٥. | 3.1. Authentication | |
| | | |
| | 3.1.1. Geographic Endpoints | |
| | 3.1.2. Retrieving the Authentication Token | |
| | 3.2. Service Access/Endpoints | |
| | 3.3. Contract Versions | |
| | 3.4. Request/Response Types | |
| | 3.5. Limits | |
| | 3.5.1. Rate Limits | . 7 |
| | 3.5.2. Absolute Limits | 7 |
| | 3.6. Date/Time Format | 7 |
| | 3.7. Faults | . 8 |
| 4. | API Reference | |
| | 4.1. Group Resource | |
| | 4.1.1. List Autoscaling Groups | |
| | 4.1.2. POST | |
| | 4.1.3. GET | |
| | 4.1.4. DELETE | |
| | | |
| | 4.1.5. GET | |
| | 4.2. Configuration Resource | |
| | 4.2.1. GET | |
| | 4.2.2. PUT | |
| | 4.2.3. GET | 24 |
| | 4.2.4. PUT | 25 |
| | 4.2.5. POST | 26 |
| | 4.2.6. POST | 27 |
| | 4.3. Policies Resource | 27 |
| | 4.3.1. GET | |
| | 4.3.2. POST | |
| | 4.3.3. GET | |
| | 4.3.4. PUT | |
| | 4.3.5. DELETE | |
| | 4.3.6. POST | |
| | | |
| | 4.4. Execute Resource | |
| | 4.4.1. POST | |
| | 4.5. Webhooks Resource | |
| | 4.5.1. GET | |
| | 4.5.2. POST | 39 |
| | 4.5.3. GET | 41 |
| | 4.5.4. PUT | 42 |
| | 4.5.5. DELETE | 43 |

List of Tables

| 3.1. Regionalized Service Endpoints | . 5 |
|---|-----|
| 3.2. Response Format | . 6 |
| 3.3. Default Rate Limits | . 7 |
| 3.4. Absolute Limits | . 7 |
| 3.5. Explanation of Date/Time Format Codes | . 8 |
| 4.1. List Autoscaling Groups Request Parameters | 12 |
| 4.2. POST Request Parameters | 13 |
| 4.3. GET Request Parameters | 17 |
| 4.4. DELETE Request Parameters | 19 |
| 4.5. GET Request Parameters | 20 |
| 4.6. GET Request Parameters | 22 |
| 4.7. PUT Request Parameters | 23 |
| 4.8. GET Request Parameters | 24 |
| 4.9. PUT Request Parameters | 25 |
| 4.10. POST Request Parameters | 26 |
| 4.11. POST Request Parameters | 27 |
| 4.12. GET Request Parameters | 28 |
| 4.13. POST Request Parameters | 30 |
| 4.14. GET Request Parameters | 32 |
| 4.15. PUT Request Parameters | 33 |
| 4.16. DELETE Request Parameters | 34 |
| 4.17. POST Request Parameters | 35 |
| 4.18. POST Request Parameters | 36 |
| 4.19. GET Request Parameters | 37 |
| 4.20. POST Request Parameters | 39 |
| 4.21. GET Request Parameters | 41 |
| 4.22. PUT Request Parameters | 42 |
| 4.23. DELETE Request Parameters | 43 |
| | |

List of Examples

| 3.1. Sample Request URL (contract version in bold) | . 5 |
|--|-----|
| 3.2. Service Date/Time Format | . 8 |
| 3.3. Error Message Example | |
| 1.1. List Autoscaling Groups Request: JSON | |
| 1.2. List Autoscaling Groups Response: JSON | 12 |
| 1.3. Request: JSON | 13 |
| 1.4. Response: JSON | 14 |
| 1.5. Request: JSON | 17 |
| 1.6. Response: JSON | 17 |
| 1.7. Request: JSON | 19 |
| 1.8. Request: JSON | 20 |
| 1.9. Response: JSON | |
| 1.10. Request: JSON | |
| 1.11. Response: JSON | |
| 1.12. Request: JSON | 23 |
| 1.13. Request: JSON | 24 |
| 1.14. Response: JSON | 24 |
| 1.15. Request: JSON | |
| 1.16. Request: JSON | |
| 1.17. Request: JSON | 27 |
| 1.18. Request: JSON | 28 |
| 1.19. Response: JSON | |
| 1.20. Request: JSON | 30 |
| 1.21. Response: JSON | |
| 1.22. Request: JSON | 32 |
| 1.23. Response: JSON | |
| 1.24. Request: JSON | |
| 1.25. Request: JSON | |
| 1.26. Request: JSON | |
| 1.27. Response: JSON | |
| 1.28. Request: JSON | |
| 1.29. Response: JSON | 36 |
| 1.30. Request: JSON | 37 |
| 1.31. Response: JSON | 37 |
| 1.32. Request: JSON | |
| 1.33. Response: JSON | 39 |
| 1.34. Request: JSON | 41 |
| 1.35. Response: JSON | 41 |
| 1.36. Request: JSON | 42 |
| 1.37. Request: JSON | 43 |

1. Overview

The Rackspace Autoscale service responds to events by changing capacity to meet current needs. This ability to expand the configuration in response to increased workload means that you can begin with a minimal cloud configuration and grow only when the cost of that growth is justified.

1.1. Intended Audience

This document is intended for software developers who are interested in developing applications that use the Rackspace Cloud Cloud Autoscale API. To use this API, we assume you have the following skills:

- · ReSTful web services
- HTTP/1.1 conventions
- JSON data serialization formats

1.2. Document Change History

This version of the document replaces and obsoletes all previous versions. The most recent changes are described in the following table:

| Revision Date | Summary of Changes | |
|---|--------------------|--|
| Jul 22, 2013 • Initial public draft of full DevGuide for Early Access release. | | |
| Jul 2, 2013 • Initial internal draft of API Operations section for Preview release. | | |

1.3. Additional Resources

Rackspace Autoscale is an open-source project. You can see and contribute to source code in our GitHub repository, https://github.com/rackerlabs/otter.

You can see and experiment with all Rackspace Autoscale API calls at http://docs.autoscale.apiary.io/.

To use Rackspace Autoscale, you must be able to set cloud monitoring alarms and create cloud servers and cloud load balancers. You can read API documentation for those and other Rackspace services at http://docs.rackspace.com/.

1.4. API Contract Changes

The API contract is not locked and may change during the Early Access Program.

Rackspace will notify customers in Release Notes when and if the contract does change.

1.5. Pricing and Service Level

For the Early Access period, your use of Rackspace Autoscale is not billed. However, Rackspace Autoscale relies on other services which are part of the Rackspace Cloud; your

EV

use of those services through the API will be billed as per the pricing schedule published for each service:

- For Rackspace Next Gen Cloud Servers, pricing is published at http://www.rackspace.com/cloud/servers/#pricing.
- For Rackspace Cloud Load Balancers, pricing is published at http://www.rackspace.com/cloud/load-balancing/pricing/.
- For Rackspace Cloud Monitoring, pricing is published at http://www.rackspace.com/cloud/monitoring/pricing/.

For the Early Access period, there is no Service Level Agreement (SLA) for Rackspace Autoscale.

PREV

- PREVIEW - DRAFT - PREVIEW - DRAFT - PREVIEW - DRAFT - PREVIEW - DRAFT

2. Concepts

To use the Autoscale API effectively, you should understand several key concepts:

3. General API Information

The Autoscale API is implemented using a ReSTful web service interface. Like other products in the Rackspace Cloud suite, Autoscale shares a common token-based authentication system that allows seamless access between products and services.



Note

All requests to authenticate against and operate the service are performed using SSL over HTTP (HTTPS) on TCP port 443.

3.1. Authentication

Every ReST request for Autoscale requires the inclusion of a specific authorization token, supplied by the X-Auth-Token HTTP header. Customers obtain this token by first using the Rackspace Cloud Identity Service and supplying a valid username and API access key.

3.1.1. Geographic Endpoints

The Rackspace Cloud Identity Service serves as the entry point to all Rackspace Cloud APIs and is itself a ReSTful web service.

You can use either of the following endpoints to access the Identity Service, regardless of US or UK identities:

- https://identity.api.rackspacecloud.com/v2.0/
- https://lon.identity.api.rackspacecloud.com/v2.0/

Your account may be based in either the US or the UK; this is not determined by your physical location but by the location of the Rackspace retail site which was used to create your account:

- If your account was created via http://www.rackspacecloud.com, it is a US-based account
- If your account was created via http://www.rackspace.co.uk, it is a UK-based account.

3.1.2. Retrieving the Authentication Token

| POST v2.0/tokens Authenticate to receive a token and a service catalog. | |
|---|--|
|---|--|

Normal Response Code(s): 200, 203

Error Response Code(s): unauthorized (401), userDisabled (403), badRequest (400), authFault (500), serviceUnavailable (503)

The authenticate operation provides clients with an authentication token and a list of regional cloud endpoints. The sample requests and responses in this section illustrate a general case. In your authentication request, use your own credentials rather than the sample values shown here for username and apiKey. When you authenticate

successfully, the response to your authentication request will include a catalog of the services to which you have subscribed rather than the sample values shown here.

3.2. Service Access/Endpoints

Rackspace Autoscale is a regionalized service. The user of the service is therefore responsible for appropriate replication, caching, and overall maintenance of Rackspace Autoscale data across regional boundaries to other Cloud Queuing servers.

You can find the available service access/endpoints for Autoscale summarized in the table below.

Table 3.1. Regionalized Service Endpoints

| Region | Endpoint | |
|--|---|--|
| Chicago (ORD) https://ord.queuing.api.rackspacecloud.com/v1.0/1234 | | |
| Dallas/Ft. Worth (DFW) | https://dfw.queuing.api.rackspacecloud.com/v1.0/1234/ | |
| London (LON) | https://lon.queuing.api.rackspacecloud.com/v1.0/1234/ | |
| Sydney (SYD) | https://syd.queuing.api.rackspacecloud.com/v1.0/1234/ | |

Replace the sample project ID number, 1234, with your actual account number returned as part of the authentication service response.

You will find the actual account number after the final '/' in the publicURL field returned by the authentication response.



Note

Rackspace Autoscale uses the term project ID rather than account ID, which is used in other Rackspace documentation. Both refer to your Rackspace account number, which you can find in your Cloud Control Panel at mycloud.rackspace.com.

3.3. Contract Versions

The Autoscale version defines the contract and build information for the APL

The contract version denotes the data model and behavior that the API supports. The requested contract version is included in all request URLs. Different contract versions of the API may be available at any given time and are not guaranteed to be compatible with one another.

Example 3.1. Sample Request URL (contract version in bold)

https://ord.queuing.api.rackspacecloud.com/v1.0/1234



Note

This document pertains to contract version 1.0.

3.4. Request/Response Types

The Rackspace Autoscale API supports JSON data serialization formats. The request format is specified using the Content-Type header and is required for calls that have a request body. The response format can be specified in requests either by using the Accept header or by adding a . json extension to the request URI. JSON is also used for the response format.

Table 3.2. Response Format

| Format | Accept Header | Query Extension | Default |
|--------|------------------|-----------------|---------|
| JSON | application/json | .json | Yes |

E\

3.5. Limits

All accounts, by default, have a preconfigured set of thresholds (or limits) to manage capacity and prevent abuse of the system. The system recognizes two kinds of limits: *rate limits* and *absolute limits*. Rate limits are thresholds that are reset after a certain amount of time passes. Absolute limits are fixed.

3.5.1. Rate Limits

Rate limits are specified in terms of both a human-readable wild-card URI and a machine-processable regular expression. The regular expression boundary matcher '^' takes effect after the root URI path. For example, the regular expression ^/v1.0/instances would match the bolded portion of the following URI: https://ord.databases.api.rackspacecloud.com/v1.0/instances.

The following table specifies the default rate limits for all API operations for all **GET**, **POST**, **PUT**, and **DELETE** calls for databases and database instances:

Table 3.3. Default Rate Limits

| Verb | URI | RegEx | Default |
|--------------------------|---------------|----------------------|------------|
| GET changes-since | */instances/* | ^/vd+.d+/instances.* | 3/minute |
| POST | */instances/* | ^/vd+.d+/instances.* | 10/minute |
| POST instances | */instances/* | ^/vd+.d+/instances.* | 50/day |
| PUT | */instances/* | ^/vd+.d+/instances.* | 10/minute |
| DELETE | */instances/* | ^/vd+.d+/instances.* | 100/minute |

Rate limits are applied in order relative to the verb, going from least to most specific. For example, although the threshold for **POST** to /v1.0/* is 10 per minute, one cannot **POST** to /v1.0/* more than 50 times within a single day.

If you exceed the thresholds established for your account, a 413 (Rate Control) HTTP response will be returned with a Retry-After header to notify the client when it can attempt to try again.

3.5.2. Absolute Limits

Refer to the following table for the absolute limits that are set.

Table 3.4. Absolute Limits

| Name | me Description | |
|--|--|--|
| | Maximum number of ??? allowed for your account | |
| Maximum volume of ??? size per instance in gigabytes (GB) for your account | | |

3.6. Date/Time Format

The Autoscale service uses an ISO-8601 compliant date format for the display and consumption of date/time values.

Example 3.2. Service Date/Time Format

```
yyyy-MM-dd'T'HH:mm:ss.SSSZ
```

See the table below for a description of the date/time format codes.

May 19th, 2011 at 8:07:08 AM, GMT-5 would have the following format:

2011-05-19T08:07:08-05:00

Table 3.5. Explanation of Date/Time Format Codes

| Code | Description |
|------|--|
| уууу | Four digit year |
| MM | Two digit month |
| dd | Two digit day of month |
| Т | Separator for date/time |
| НН | Two digit hour of day (00-23) |
| mm | Two digit minutes of hour |
| ss | Two digit seconds of the minute |
| SSS | Three digit milliseconds of the second |
| Z | RFC-822 timezone |

3.7. Faults

If any Rackspace Autoscale request results in an error, the queuing service returns an appropriate 4xx or 5xx HTTP status code, as well as the following information in the body:

- Title
- Description
- Internal code
- · Link to more information

An example of an error message follows.

Example 3.3. Error Message Example

PREV - PREVIEW - DRAFT - PREVIEW - DRAFT - PREVIEW - DRAFT - PREVIEW - DRAFT

Error information for each operation is included with the description in Chapter 4, "API Reference" [10].

4. API Reference

| URI | Description |
|---|--|
| Group I | Resource |
| v1.0/{tenantId}/groups | Lists all the autoscaling groups for the specified tenant ID. |
| v1.0/{tenantId}/groups | Create a new scaling group, given the general scaling group configuration, launch configuration, and optional scaling policies. This data provided in the request body in JSON format. If successful, the created group in JSON format containing id and links is returned. |
| v1.0/{tenantId}/groups/{groupId} | View manifested view of the scaling group configuration, including the launch configuration, and the scaling policies. This data is returned in the body of the response in JSON format. |
| v1.0/{tenantId}/groups/{groupId} | Delete a scaling group if there are no entities belonging to the scaling group. If successful, no response body will be returned. If there are pending or active entities, a 409 will be returned. |
| v1.0/{tenantId}/groups/{groupId}/ state | Get the current state of the scaling group, including the current set of active entities, the number of pending entities, and the desired number of entities. This data is returned in the body of the response in JSON format. |
| Configurati | on Resource |
| v1.0/{tenantId}/groups/{groupId}/ config | Get the configuration for a scaling group, which includes the minimum number of entities, the maximum number of entities, global cooldown, and other metadata. This data is returned in the body of the response in JSON format. |
| v1.0/{tenantId}/groups/{groupId}/ config | Edit the configuration for a scaling group, which includes the minimum number of entities, the maximum number of entities, global cooldown, and other metadata. This data provided in the request body in JSON format. If successful, no response body will be returned. |
| v1.0/{tenantId}/groups/{groupId}/launch | Get the launch configuration for a scaling group, which includes the details of how to create a server, from what image, which load balancers to join it to, and what networks to add it to, and other metadata. This data is returned in the body of the response in JSON format. |
| v1.0/{tenantId}/groups/{groupId}/ launch | Edit the launch configuration for a scaling group, which includes the details of how to create a server, from what image, which load balancers to join it to, and what networks to add it to, and other metadata. This data provided in the request body in JSON format. If successful, no response body will be returned. |
| v1.0/{tenantId}/groups/{groupId}/ pause | Pause all execution of scaling policies for this scaling group. |
| v1.0/{tenantId}/groups/{groupId}/ resume | Resume all execution of scaling policies for this scaling group. |
| Policies | Resource |
| v1.0/{tenantId}/groups/{groupId}/ policies | Get a list of scaling policies in the group. Each policy describes an id, name, type, adjustment, cooldown, and links. This data is returned in the body of the response in JSON format. |
| v1.0/{tenantId}/groups/{groupId}/ policies | Create one or many new scaling policies. Scaling policies must include a name, type, adjustment, and cooldown. The response header will point to the list policies endpoint. An array of scaling policies is provided in the request body in JSON format. |
| | V1.0/{tenantId}/groups V1.0/{tenantId}/groups V1.0/{tenantId}/groups/{groupId} V1.0/{tenantId}/groups/{groupId} V1.0/{tenantId}/groups/{groupId}/state V1.0/{tenantId}/groups/{groupId}/config V1.0/{tenantId}/groups/{groupId}/config V1.0/{tenantId}/groups/{groupId}/config V1.0/{tenantId}/groups/{groupId}/launch V1.0/{tenantId}/groups/{groupId}/launch V1.0/{tenantId}/groups/{groupId}/launch V1.0/{tenantId}/groups/{groupId}/resume V1.0/{tenantId}/resume V1.0/{tenantId}/resum |

| Verb | URI | Description |
|--------|--|--|
| GET | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}</pre> | Get a scaling policy which describes an id, name, type, adjustment, and cooldown, and links. This data is returned in the body of the response in JSON format. |
| PUT | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}</pre> | Updates a scaling policy. Scaling policies must include a name, type, adjustment, and cooldown. If successful, no response body will be returned. |
| DELETE | v1.0/{tenantId}/groups/{groupId}/ policies/{policyId} | Delete a scaling policy. If successful, no response body will be returned. |
| POST | v1.0/{tenantId}/groups/{groupId}/policies/{policyId}/execute | Execute a scaling policy. If successful, a response body will be returned. |
| | Execute | Resource |
| POST | <pre>v1.0/execute/{capability_version}/ {capability_hash}</pre> | Execute a webhook |
| | Webhook | s Resource |
| GET | v1.0/{tenantId}/groups/{groupId}/policies/{policyId}/webhooks | Get a list of webhooks and their IDs. This data is returned in the body of the response in JSON format. |
| POST | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/webhooks</pre> | Create one or more new scaling policy webhooks. Webhooks must have a name. If successful, the created response body will contain the IDs and links to the newly created webhooks. This data provided in the request body in JSON format. |
| GET | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/webhooks/ {webhookId}</pre> | Get information about a specific scaling policy webhook. This data is returned in the body of the response in JSON format. |
| PUT | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/webhooks/ {webhookId}</pre> | Update an existing webhook. Webhooklds not recognized will be ignored with accompanying data. URLs will be ignored if submitted, but that will not invalidate the request. If successful, no response body will be returned. |
| DELETE | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/webhooks/ {webhookId}</pre> | Delete a scaling policy webhook. If successful, no response body will be returned. |

4.1. Group Resource

| Verb | URI | Description |
|--------|---|---|
| GET | v1.0/{tenantId}/groups | Lists all the autoscaling groups for the specified tenant ID. |
| POST | v1.0/{tenantId}/groups | Create a new scaling group, given the general scaling group configuration, launch configuration, and optional scaling policies. This data provided in the request body in JSON format. If successful, the created group in JSON format containing id and links is returned. |
| GET | v1.0/{tenantId}/groups/{groupId} | View manifested view of the scaling group configuration, including the launch configuration, and the scaling policies. This data is returned in the body of the response in JSON format. |
| DELETE | v1.0/{tenantId}/groups/{groupId} | Delete a scaling group if there are no entities belonging to the scaling group. If successful, no response body will be returned. If there are pending or active entities, a 409 will be returned. |
| GET | v1.0/{tenantId}/groups/{groupId}/ state | Get the current state of the scaling group, including the current set of active entities, the number of pending entities, and the desired number of entities. This data is returned in the body of the response in JSON format. |

4.1.1. List Autoscaling Groups

| Verb | URI | Description |
|------|------------------------|---|
| GET | v1.0/{tenantId}/groups | Lists all the autoscaling groups for the specified tenant ID. |

Normal Response Code(s): 200

For the tenant specified by , this operation returns a list of autoscaling groups.

Table 4.1. List Autoscaling Groups Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |

Example 4.1. List Autoscaling Groups Request: JSON

Example 4.2. List Autoscaling Groups Response: JSON

```
"groups": [
                             "id": "{groupId1}"
                             "links": [
                             "href": "{url_root}/v1.0/010101/groups/{groupId1}"
                             "rel": "self"
                             ],
                             "active": [],
                             "activeCapacity": 0,
                             "pendingCapacity": 1,
                             "desiredCapacity": 1,
                             "paused": false
                             "id": "{groupId2}"
                             "links": [
                             "href": "{url_root}/v1.0/010101/groups/
{groupId2}",
                             "rel": "self"
                             ],
                             "active": [],
                             "activeCapacity": 0,
                             "pendingCapacity": 2,
                             "desiredCapacity": 2,
                             "paused": false
                             ],
                             "groups_links": []
```

4.1.2. POST

| Verb | URI | Description |
|------|------------------------|---|
| POST | v1.0/{tenantId}/groups | Create a new scaling group, given the general scaling group configuration, launch configuration, and optional scaling policies. This data provided in the request body in JSON format. If successful, the created group in JSON format containing id and links is returned. |

Normal Response Code(s): 201

Table 4.2. POST Request Parameters

| Name | Style | Type | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |

Example 4.3. Request: JSON

```
"groupConfiguration": {
   "name" : "workers"
   "cooldown": 60,
   "minEntities": 5,
   "maxEntities": 100,
   "metadata": {
       "firstkey" : "this is a string"
       "secondkey" : "1"
   },
"launchConfiguration": {
   "type" : "launch_server"
   "args": {
       "server": {
           "flavorRef": 3,
           "name" : "webhead"
           "imageRef" : "0d589460-f177-4b0f-81c1-8ab8903ac7d8"
           "OS-DCF:diskConfig" : "AUTO"
           "metadata": {
               "mykey" : "myvalue"
               },
           "personality": [
               "path": '/root/.ssh/authorized_keys',
               "contents" : "ssh-rsa AAAAB3Nza...LiPk== user@example.net"
           ],
           "networks": [
               ],
       "loadBalancers": [
           "loadBalancerId": 2200,
           "port": 8081
```

4

```
},
"scalingPolicies": [
    "name" : "scale up by 10"
    "change": 10,
    "cooldown": 5,
    "type" : "webhook"
{
    "name" : "scale down by 5.5 percent"
    "changePercent": -5.5,
    "cooldown": 6,
    "type" : "webhook"
    "name" : "set number of servers to 10"
    "desiredCapacity": 10,
    "cooldown": 3,
    "type" : "webhook"
]
```

Example 4.4. Response: JSON

```
"group": {
   "id": "{groupId}",
    "links": [
        "href": "{url_root}/v1.0/010101/groups/{groupId}"
        "rel": "self"
     }
    ],
    "groupConfiguration": {
        "name": "workers",
        "cooldown": 60,
        "minEntities": 5,
        "maxEntities": 100,
        "metadata": {
            "firstkey": "this is a string",
            "secondkey": "1",
    "launchConfiguration": {
        "type": "launch_server",
        "args": {
            "server": {
                "flavorRef": 3,
                "name": "webhead",
                "imageRef": "0d589460-f177-4b0f-81c1-8ab8903ac7d8",
                "OS-DCF:diskConfig": "AUTO",
                "metadata": {
                    "mykey": "myvalue"
                "personality": [
                         "path": '/root/.ssh/authorized_keys',
```

```
"contents": "ssh-rsa AAAAB3Nza...LiPk==
user@example.net"
                       }
                   ],
                   "networks": [
                           ],
               "loadBalancers": [
                       "loadBalancerId": 2200,
                       "port": 8081
               ]
       },
       "scalingPolicies": [
               "id": "{policyId1}",
               "links": [
                   "href": "{url_root}/v1.0/010101/groups/{groupId}/policies/
{policyId1}"
                   "rel": "self"
               ],
               "name": "scale up by 10",
               "change": 10,
               "cooldown": 5,
               "type": "webhook"
               "id": "{policyId2}",
               "links": [
                   "href": "{url_root}/v1.0/010101/groups/{groupId}/policies/
{policyId2}"
                   "rel": "self"
                 }
               "name": "scale down by 5.5 percent",
               "changePercent": -5.5,
               "cooldown": 6,
               "type": "webhook"
               "id": "{policyId3}",
               "links": [
                   "href": "{url_root}/v1.0/010101/groups/{groupId}/policies/
{policyId3}"
                   "rel": "self"
               ],
               "name": "Set number of servers to 10",
               "desiredCapacity": 10,
               "cooldown": 6,
               "type": "webhook"
```

```
}
}
}
```

4.1.3. **GET**

| Verb | URI | Description |
|------|----------------------------------|--|
| GET | v1.0/{tenantId}/groups/{groupId} | View manifested view of the scaling group configuration, including the launch configuration, and the scaling policies. This data is returned in the body of the response in JSON format. |

Normal Response Code(s): 200

Table 4.3. GET Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |

Example 4.5. Request: JSON

Example 4.6. Response: JSON

```
"group": {
       "id": "{groupId}",
       "links": [
           "href": "{url_root}/v1.0/010101/groups/{groupId}"
           "rel": "self"
       ],
       "groupConfiguration": {
           "name": "workers",
           "cooldown": 60,
           "minEntities": 5,
           "maxEntities": 100,
           "metadata": {
               "firstkey": "this is a string",
               "secondkey": "1",
       "launchConfiguration": {
           "type": "launch_server",
           "args": {
               "server": {
                    "flavorRef": 3,
                    "name": "webhead",
                    "imageRef": "0d589460-f177-4b0f-81c1-8ab8903ac7d8",
                    "OS-DCF:diskConfig": "AUTO",
                    "metadata": {
                        "mykey": "myvalue"
                   },
                    "personality": [
                            "path": '/root/.ssh/authorized_keys',
                            "contents": "ssh-rsa AAAAB3Nza...LiPk==
user@example.net"
                   ],
                    "networks": [
```

```
"uuid": "11111111-1111-1111-1111-11111111111"
                    ],
                "loadBalancers": [
                         "loadBalancerId": 2200,
                         "port": 8081
                ]
        },
        "scalingPolicies": [
                "id": "{policyId1}",
                "links": [
                     "href": "{url_root}/v1.0/010101/groups/{groupId}/policies/
{policyId1}"
                    "rel": "self"
                ],
                "name": "scale up by 10",
                "change": 10,
                "cooldown": 5,
                "type": "webhook"
                "id": "{policyId2}",
                "links": [
                  {
                    "href": "{url_root}/v1.0/010101/groups/{groupId}/policies/
{policyId2}"
                    "rel": "self"
                  }
                "name": "scale down by 5.5 percent",
                "changePercent": -5.5,
                "cooldown": 6,
                "type": "webhook"
                "id": "{policyId3}",
                "links": [
                    "href": "{url_root}/v1.0/010101/groups/{groupId}/policies/
{policyId3}"
                    "rel": "self"
                "name": "set number of servers to 10",
                "desiredCapacity": 10,
                "cooldown": 3,
                "type": "webhook"
            }
       ]
   }
```

4.1.4. DELETE

| Verb | URI | Description |
|--------|----------------------------------|---|
| DELETE | v1.0/{tenantId}/groups/{groupId} | Delete a scaling group if there are no entities belonging to the scaling group. If successful, no response body will be returned. If there are pending or active entities, a 409 will be returned. |

Normal Response Code(s): 204

Table 4.4. DELETE Request Parameters

| Name | Style | Type | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |

Example 4.7. Request: JSON

This operation does not return a response body.

4.1.5. GET

| Verb | URI | Description |
|------|---|---|
| GET | v1.0/{tenantId}/groups/{groupId}/ state | Get the current state of the scaling group, including the current set of active entities, the number of pending entities, and the desired number of entities. This data is returned in the body of the response in JSON format. |

Normal Response Code(s): 200

Table 4.5. GET Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |

Example 4.8. Request: JSON

Example 4.9. Response: JSON

```
"group": {
        "id": "{groupId}",
        "links": [
                "href": "{url_root}/v1.0/010101/groups/{groupId},
                "rel": "self"
        ],
        "active": [
                "id": "{instanceId1}"
                "links": [
                         "href": "https://dfw.servers.api.rackspacecloud.com/
v2/010101/servers/{instanceId1}",
                         "rel": "self"
                ]
            },
                "id": "{instanceId2}"
                "links": [
                         "href": "https://dfw.servers.api.rackspacecloud.com/
v2/010101/servers/{instanceId2}",
                         "rel": "self"
                ]
        ],
        "activeCapacity": 2,
        "pendingCapacity": 2,
        "desiredCapacity": 4,
        "paused": false
```

4.2. Configuration Resource

| Verb | URI | Description |
|------|---|--|
| GET | v1.0/{tenantId}/groups/{groupId}/ config | Get the configuration for a scaling group, which includes the minimum number of entities, the maximum number of entities, global cooldown, and other metadata. This data is returned in the body of the response in JSON format. |
| PUT | v1.0/{tenantId}/groups/{groupId}/ config | Edit the configuration for a scaling group, which includes the minimum number of entities, the maximum number of entities, global cooldown, and other metadata. This data provided in the request body in JSON format. If successful, no response body will be returned. |
| GET | v1.0/{tenantId}/groups/{groupId}/ launch | Get the launch configuration for a scaling group, which includes the details of how to create a server, from what image, which load balancers to join it to, and what networks to add it to, and other metadata. This data is returned in the body of the response in JSON format. |
| PUT | v1.0/{tenantId}/groups/{groupId}/launch | Edit the launch configuration for a scaling group, which includes the details of how to create a server, from what image, which load balancers to join it to, and what networks to add it to, and other metadata. This data provided in the request body in JSON format. If successful, no response body will be returned. |
| POST | v1.0/{tenantId}/groups/{groupId}/ pause | Pause all execution of scaling policies for this scaling group. |
| POST | v1.0/{tenantId}/groups/{groupId}/ resume | Resume all execution of scaling policies for this scaling group. |

4.2.1. GET

| Verb | URI | Description |
|------|--|---|
| GET | v1.0/{tenantId}/groups/{groupId}/ config | Get the configuration for a scaling group, which includes the minimum number of entities, the maximum number of entities, global cooldown, and other metadata. This data is returned in the body of the response in JSON format. |

Normal Response Code(s): 200

Table 4.6. GET Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |

Example 4.10. Request: JSON

Example 4.11. Response: JSON

```
{
    "groupConfiguration": {
        "name": "workers",
        "cooldown": 60,
        "minEntities": 5,
        "maxEntities": 100,
        "metadata": {
            "firstkey": "this is a string",
            "secondkey": "1",
        }
    }
}
```

4.2.2. PUT

| Verb | URI | Description |
|------|--|--|
| PUT | v1.0/{tenantId}/groups/{groupId}/ config | Edit the configuration for a scaling group, which includes the minimum number of entities, the maximum number of entities, global cooldown, and other metadata. This data provided in the request body in JSON format. If successful, no response body will be returned. |

Normal Response Code(s): 204

Table 4.7. PUT Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |

Example 4.12. Request: JSON

This operation does not return a response body.

4.2.3. GET

| Verb | URI | Description |
|------|---|--|
| GET | v1.0/{tenantId}/groups/{groupId}/ launch | Get the launch configuration for a scaling group, which includes the details of how to create a server, from what image, which load balancers to join it to, and what networks to add it to, and other metadata. This data is returned in the body of the response in JSON format. |

Normal Response Code(s): 200

Table 4.8. GET Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |

Example 4.13. Request: JSON

Example 4.14. Response: JSON

```
"launchConfiguration": {
        "type": "launch_server",
        "args": {
            "server": {
                "flavorRef": 3,
                "name": "webhead",
                "imageRef": "0d589460-f177-4b0f-81c1-8ab8903ac7d8",
                "OS-DCF:diskConfig": "AUTO",
                "metadata": {
                    "mykey": "myvalue"
                },
                "personality": [
                         "path": '/root/.ssh/authorized_keys',
                         "contents": "ssh-rsa AAAAB3Nza...LiPk== user@example.
net"
                ],
                "networks": [
                         "uuid": "11111111-1111-1111-1111-11111111111"
                ],
            "loadBalancers": [
                    "loadBalancerId": 2200,
                    "port": 8081
            ]
        }
```

4.2.4. PUT

| Verb | URI | Description |
|------|--|--|
| PUT | v1.0/{tenantId}/groups/{groupId}/ launch | Edit the launch configuration for a scaling group, which includes the details of how to create a server, from what image, which load balancers to join it to, and what networks to add it to, and other metadata. This data provided in the request body in JSON format. If successful, no response body will be returned. |

Normal Response Code(s): 204

Table 4.9. PUT Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |

Example 4.15. Request: JSON

```
"type" : "launch_server"
"args": {
   "server": {
       "flavorRef": 3,
       "name" : "webhead"
       "imageRef" : "0d589460-f177-4b0f-81c1-8ab8903ac7d8"
       "OS-DCF:diskConfig" : "AUTO"
       "metadata": {
           "mykey" : "myvalue"
           },
       "personality": [
           "path": '/root/.ssh/authorized_keys',
           "contents" : "ssh-rsa AAAAB3Nza...LiPk== user@example.net"
       ],
       "networks": [
           ],
       },
   "loadBalancers": [
       "loadBalancerId": 2200,
       "port": 8081
   ]
   }
```

This operation does not return a response body.

4.2.5. POST

| Verb | URI | Description |
|------|-----------------------------------|--|
| POST | v1.0/{tenantId}/groups/{groupId}/ | Pause all execution of scaling policies for this scaling |
| | pause | group. |

Normal Response Code(s): 204

Table 4.10. POST Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |

Example 4.16. Request: JSON

This operation does not return a response body.

4.2.6. POST

| Verb | URI | Description |
|------|---|--|
| POST | v1.0/{tenantId}/groups/{groupId}/resume | Resume all execution of scaling policies for this scaling group. |

Normal Response Code(s): 204

Table 4.11. POST Request Parameters

| | Name | Style | Туре | Description |
|---|----------|----------|------|-------------|
| | tenantId | Template | | |
| Ī | groupId | Template | | |

Example 4.17. Request: JSON

This operation does not return a response body.

4.3. Policies Resource

| Verb | URI | Description |
|--------|--|--|
| GET | v1.0/{tenantId}/groups/{groupId}/ policies | Get a list of scaling policies in the group. Each policy describes an id, name, type, adjustment, cooldown, and links. This data is returned in the body of the response in JSON format. |
| POST | <pre>v1.0/{tenantId}/groups/{groupId}/ policies</pre> | Create one or many new scaling policies. Scaling policies must include a name, type, adjustment, and cooldown. The response header will point to the list policies endpoint. An array of scaling policies is provided in the request body in JSON format. |
| GET | v1.0/{tenantId}/groups/{groupId}/ policies/{policyId} | Get a scaling policy which describes an id, name, type, adjustment, and cooldown, and links. This data is returned in the body of the response in JSON format. |
| PUT | v1.0/{tenantId}/groups/{groupId}/ policies/{policyId} | Updates a scaling policy. Scaling policies must include a name, type, adjustment, and cooldown. If successful, no response body will be returned. |
| DELETE | v1.0/{tenantId}/groups/{groupId}/ policies/{policyId} | Delete a scaling policy. If successful, no response body will be returned. |
| POST | v1.0/{tenantId}/groups/{groupId}/policies/{policyId}/execute | Execute a scaling policy. If successful, a response body will be returned. |

4.3.1. GET

| Verb | URI | Description |
|------|---|--|
| GET | <pre>v1.0/{tenantId}/groups/{groupId}/ policies</pre> | Get a list of scaling policies in the group. Each policy describes an id, name, type, adjustment, cooldown, and links. This data is returned in the body of the response in JSON format. |

Normal Response Code(s): 200

Table 4.12. GET Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |

Example 4.18. Request: JSON

Example 4.19. Response: JSON

```
"policies": [
            "id":"{policyId1}",
            "data": {
                "name": "scale up by one server",
                "change": 1,
                "cooldown": 150,
                "type": "webhook"
            "links": [
                     "href": "{url_root}/v1.0/010101/groups/{groupId1}/policy/
{policyId1}"
                     "rel": "self"
            ]
            "id": "{policyId2}",
            "data": {
                "name": "scale up ten percent",
                "changePercent": 10,
                "cooldown": 150,
                "type": "webhook"
            "links": [
                     "href": "{url_root}/v1.0/010101/groups/{groupId1}/policy/
{policyId2}"
                     "rel": "self"
            ]
        },
            "id":"{policyId3}",
```

```
"data": {
                "name": "scale down one server",
                "change": -1,
                "cooldown": 150,
                "type": "webhook"
            "links": [
                     "href": "{url_root}/v1.0/010101/groups/{groupId1}/policy/
{policyId3}"
                     "rel": "self"
            ]
        },
            "id": "{policyId4}",
            "data": {
                "name": "scale down ten percent",
                "changePercent": -10,
                "cooldown": 150,
                "type": "webhook"
            },
            "links": [
                {
                     "href": "{url_root}/v1.0/010101/groups/{groupId1}/policy/
{policyId4}"
                     "rel": "self"
            ]
        }
   ]
```

ΕV

4.3.2. POST

| Verb | URI | Description |
|------|--|---|
| POST | v1.0/{tenantId}/groups/{groupId}/ policies | Create one or many new scaling policies. Scaling policies must include a name, type, adjustment, and cooldown. The response header will point to the list policies endpoint. An array of scaling policies is provided in the request body in JSON format. |

Normal Response Code(s): 201

Table 4.13. POST Request Parameters

| Name | Style | Type | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |

Example 4.20. Request: JSON

```
[
    "name" : "scale up by one server"
    "change": 1,
    "cooldown": 150,
    "type" : "webhook"
    },
{
    "name" : "scale down by 5.5 percent"
    "changePercent": -5.5,
    "cooldown": 6,
    "type" : "webhook"
    }
]
```

Example 4.21. Response: JSON

```
"policies": [
            "id": {policyId1},
            "links": [
                     "href": "{url_root}/v1.0/010101/groups/{groupId}/policy/
{policyId1}"
                     "rel": "self"
            ],
            "name": "scale up by one server",
            "change": 1,
            "cooldown": 150,
            "type": "webhook"
        },
            "id": {policyId2},
            "links": [
                    "href": "{url_root}/v1.0/010101/groups/{groupId}/policy/
{policyId2}"
```

DRAFT

4.3.3. GET

| Verb | URI | Description |
|------|---------------------|--|
| GET | policies/{policyId} | Get a scaling policy which describes an id, name, type, adjustment, and cooldown, and links. This data is returned in the body of the response in JSON format. |

Normal Response Code(s): 200

Table 4.14. GET Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |
| policyId | Template | | |

Example 4.22. Request: JSON

Example 4.23. Response: JSON

4.3.4. PUT

| Verb | URI | Description |
|------|---|---|
| PUT | v1.0/{tenantId}/groups/{groupId}/ policies/{policyId} | Updates a scaling policy. Scaling policies must include a name, type, adjustment, and cooldown. If successful, no response body will be returned. |

Normal Response Code(s): 204

Table 4.15. PUT Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |
| policyId | Template | | |

Example 4.24. Request: JSON

```
{
    "name": 'scale down by 5.5 percent',
    "changePercent": -5.5,
    "cooldown": 6,
    "type" : "webhook"
}
```

4.3.5. DELETE

| Verb | URI | Description |
|--------|---|--|
| DELETE | v1.0/{tenantId}/groups/{groupId}/ policies/{policyId} | Delete a scaling policy. If successful, no response body will be returned. |

Normal Response Code(s): 204

Table 4.16. DELETE Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |
| policyId | Template | | |

Example 4.25. Request: JSON

4.3.6. POST

| Verb | URI | Description |
|------|---|--|
| | v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/execute | Execute a scaling policy. If successful, a response body will be returned. |

Normal Response Code(s): 202

Table 4.17. POST Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |
| policyId | Template | | |

Example 4.26. Request: JSON

Example 4.27. Response: JSON

{}

4.4. Execute Resource

| Verb | URI | Description |
|------|--|-------------------|
| POST | v1.0/execute/{capability_version}/ {capability_hash} | Execute a webhook |

4.4.1. POST

| Verb | URI | Description |
|------|--|-------------------|
| POST | v1.0/execute/{capability_version}/ {capability_hash} | Execute a webhook |

Normal Response Code(s): 202

Table 4.18. POST Request Parameters

| | Name | Style | Туре | Description |
|----|------------------|----------|------|-------------|
| са | pability_version | Template | | |
| са | pability_hash | Template | | |

Example 4.28. Request: JSON

Example 4.29. Response: JSON

{}

4.5. Webhooks Resource

| Verb | URI | Description |
|--------|--|--|
| GET | v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/webhooks | Get a list of webhooks and their IDs. This data is returned in the body of the response in JSON format. |
| POST | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/webhooks</pre> | Create one or more new scaling policy webhooks. Webhooks must have a name. If successful, the created response body will contain the IDs and links to the newly created webhooks. This data provided in the request body in JSON format. |
| GET | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/webhooks/ {webhookId}</pre> | Get information about a specific scaling policy webhook. This data is returned in the body of the response in JSON format. |
| PUT | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/webhooks/ {webhookId}</pre> | Update an existing webhook. Webhooklds not recognized will be ignored with accompanying data. URLs will be ignored if submitted, but that will not invalidate the request. If successful, no response body will be returned. |
| DELETE | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/webhooks/ {webhookId}</pre> | Delete a scaling policy webhook. If successful, no response body will be returned. |

4.5.1. GET

| Verb | URI | Description |
|------|---|---|
| GET | , | Get a list of webhooks and their IDs. This data is returned in the body of the response in JSON format. |

Normal Response Code(s): 200

Table 4.19. GET Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |
| policyId | Template | | |

Example 4.30. Request: JSON

Example 4.31. Response: JSON

```
"webhooks": [
            "id":"{webhookId1}",
            "name": "alice",
            "metadata": {
                "notes": "this is for Alice"
            "links": [
                    "href": ".../{groupId1}/policies/{policyId1}/webhooks/
{webhookId1}/",
                    "rel": "self"
                    "href": ".../execute/1/{capability_hash1}/,
                    "rel": "capability"
            ]
        },
            "id":"{webhookId2}",
            "name": "alice",
            "metadata": {
                "notes": "this is for Bob"
            "links": [
                    "href": ".../{groupId1}/policies/{policyId1}/webhooks/
{webhookId2}/",
                    "rel": "self"
                    "href": ".../execute/1/{capability_hash2}/,
                    "rel": "capability"
```

```
}
],
"webhooks_links": []
}
```

4.5.2. POST

| Verb | URI | Description |
|------|---|--|
| POST | v1.0/{tenantId}/groups/{groupId}/policies/{policyId}/webhooks | Create one or more new scaling policy webhooks. Webhooks must have a name. If successful, the created response body will contain the IDs and links to the newly created webhooks. This data provided in the request body in JSON format. |

Normal Response Code(s): 201

Table 4.20. POST Request Parameters

| Name | Style | Туре | Description |
|----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |
| policyId | Template | | |

Example 4.32. Request: JSON

```
[
    "name" : "alice"
    "metadata": {
        "notes" : "this is for Alice"
        }
    },
{
    "name" : "bob"
    }
]
```

Example 4.33. Response: JSON

4.5.3. GET

| Verb | URI | Description |
|------|-----|---|
| GET | , , | Get information about a specific scaling policy webhook. This data is returned in the body of the response in JSON format. |

Normal Response Code(s): 200

Table 4.21. GET Request Parameters

| Name | Style | Туре | Description |
|-----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |
| policyId | Template | | |
| webhookId | Template | | |

Example 4.34. Request: JSON

Example 4.35. Response: JSON

4.5.4. PUT

| Verb | URI | Description |
|------|--|--|
| PUT | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/webhooks/ {webhookId}</pre> | Update an existing webhook. Webhooklds not recognized will be ignored with accompanying data. URLs will be ignored if submitted, but that will not invalidate the request. If successful, no response body will be returned. |

Normal Response Code(s): 204

Table 4.22. PUT Request Parameters

| Name | Style | Туре | Description |
|-----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |
| policyId | Template | | |
| webhookId | Template | | |

Example 4.36. Request: JSON

```
{
    "name" : "alice"
    "metadata": {
        "notes" : "this is for Alice"
     }
}
```

4.5.5. DELETE

| Verb | URI | Description |
|--------|--|--|
| DELETE | <pre>v1.0/{tenantId}/groups/{groupId}/ policies/{policyId}/webhooks/ {webhookId}</pre> | Delete a scaling policy webhook. If successful, no response body will be returned. |

Normal Response Code(s): 204

Table 4.23. DELETE Request Parameters

| Name | Style | Туре | Description |
|-----------|----------|------|-------------|
| tenantId | Template | | |
| groupId | Template | | |
| policyId | Template | | |
| webhookId | Template | | |

Example 4.37. Request: JSON