
godocker_web Documentation

Release 1.0

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Nov 16, 2018

Contents

1	GO-D-Docker WEB API	3
1.1	Go-d-docker web API reference	4
2	Indices and tables	19
	HTTP Routing Table	21
	Python Module Index	23

Contents:

CHAPTER 1

GO-D-Docker WEB API

Most API calls need authentication. To get a token, one should call endpoint `/api/1.0/authenticate`. With result token, token should be placed in authorization header of next calls, example:

```
import requests
headers= {
    'Authorization': 'Bearer XXXXX',
    'Content-type': 'application/json',
    'Accept': 'application/json'
}
res = requests.get('http://godockerurli//api/1.0/task/active', headers=header)
```

Task object example:

```
task = {
    'id': task_id, # Must not be provided in POST request to create a task
    'user': { # Filled by Auth plugin, must not be provided in POST request to create
↳ a task
        'id': 'user_id',
        'uid': 1001,
        'gid': 1001,
        'project': 'default' # project assigned to the task, if none in particular,
↳ use 'default'
    },
    'notify': {
        'email': false # Optional email notification on task status modification
↳ (running, over, ...)
    },
    'date': time.mktime(dt.timetuple()), # Must not be provided in POST request to
↳ create a task
    'meta': {
        'name': 'some_name',
        'description': 'blabla'
    },
    'requirements': {
```

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```

    'cpu': 1,
    # In Gb
    'ram': 1,
    'array': {
        'values': None # Job arrays start:end:step
    },
    'label': ['storage==ssd'] or None, # See Docker labels
    'tasks': [] # Optional, Ids of parent tasks, current task will not be
↳ scheduled before for the end of parent task,
    'ports': [] # Optional, list of ports to open
    'uris': [] # Optional, list of data/uris saved in file godocker-uris.txt in
↳ task directory (one line per entry) to execute a generic script against different
↳ data
    'failure_policy': 0 # Optional number of restart in case of node failure,
↳ cannot exceed global configuration limit
    'network': 'public' # GoDocker >= 1.2, Optional network to use when CNI is
↳ used by executor backend (public/user/project)
},
'container': {
    'image': 'centos:latest',
    'volumes': [],
    'network': True,
    'id': None,
    'meta': None, # Contains meta information provided by executor (hostname, ...)
    'stats': None,
    'ports': [], # Will be automatically filled for interactive jobs by mapped
↳ ports
    'root': False
},
'command': {
    'interactive': False,
    'cmd': '/bin/sleep 30'
},
'status': {
    'primary': None,
    'secondary': None
}
}

```

Task schema for task creation is available in source directory at doc/godocker.json

1.1 Go-d-docker web API reference

godweb.views.admin_maintenance(request)

GET /admin/maintenance

Response JSON Object

- **list** – general status and per node status

Status Codes

- **200 OK** – no error
- **401 Unauthorized** – need login/authentication
- **403 Forbidden** – not authorized

godweb.views.admin_set_maintenance(request)

POST /admin/maintenance/ (**str:** *node*) /

str: *status* Admin only, set maintenance status for system or a node *node: all* for system, else node name When system is in maintenance, new tasks will be rejected with a 503 error. Existing tasks (running, pending, ...) are not impacted but pending tasks will not be scheduled.

Note: for the moment, only system maintenance is available, setting a specific node will have no impact and should be used for information only. See issue #32.

Response JSON Object

- **list** – general status and per node status

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized

`godweb.views.api_app_token_add(request)`

Generate a new application token

`godweb.views.api_app_token_delete(request)`

Delete an application token

`godweb.views.api_app_tokens(request)`

Get applications token

`godweb.views.api_app_user_token(request)`

Get user info for a token application

Header must contain a JWT encoded bearer containing same app_token as requested token. Bearer must be decoded using `shared_secret_passphrase`.

`godweb.views.api_archive(request)`

GET /api/1.0/archive/ (**int:** *days*)

Archive all tasks older than *days*

Response JSON Object

- **dict** – Task

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized
- 404 Not Found – not found

`godweb.views.api_archive_delete(request)`

DELETE /api/1.0/archive/ (**int:** *days*) ?tag=

string: *tag* Delete all tasks older than *days*, optionally matching tag

Response JSON Object

- **dict** – Task

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized
- 404 Not Found – not found

`godweb.views.api_auth(request)`

POST /api/1.0/authenticate

Authenticate user to get an Authorization bearer token used in future API calls

Request JSON Object

- **body** (*dict*) – JSON credentials {'apikey': xx, 'user': user_id}

Response JSON Object

- **dict** – {'token': generated_token}

Status Codes

- **200 OK** – no error
- **401 Unauthorized** – need login/authentication

godweb.views.**api_config** (*request*)

GET /api/1.0/config

Get general configuration

Response JSON Object

- **dict** – configuration object with volumes etc...

Status Codes

- **200 OK** – no error

godweb.views.**api_count_running** (*request*)

GET /api/1.0/task/status/({str: status})/count

Count number of tasks for all users

status request parameter should be in ['pending', 'running', 'kill', 'all']

Response JSON Object

- **dict** – {'total': number of tasks, 'status': requested status}

Status Codes

- **200 OK** – no error

godweb.views.**api_image_count** (*request*)

GET /api/1.0/image/({str: image})

List used images

Response JSON Object

- **dict** – List of used images

Status Codes

- **200 OK** – no error

godweb.views.**api_images** (*request*)

GET /api/1.0/image

List used images

Response JSON Object

- **dict** – List of used images

Status Codes

- **200 OK** – no error

godweb.views.**api_marketplace_recipe** (*request*)

GET /api/1.0/marketplace/recipe/{str:recipe}

Get a public or owned recipe

Response JSON Object

- **dict** – {'id': recipe_id, 'description': recipe_description, 'task': task_originating_id}

Status Codes

- 200 OK – no error
- 403 Forbidden – not authorized
- 404 Not Found – not found

godweb.views.**api_marketplace_recipe_delete** (*request*)

DELETE /api/1.0/marketplace/recipe/{str:recipe}

Delete a owned recipe

Status Codes

- 200 OK – no error
- 403 Forbidden – not authorized
- 404 Not Found – not found

godweb.views.**api_marketplace_recipe_edit** (*request*)

PUT /api/1.0/marketplace/recipe/{str:recipe}

Update an owned recipe. Put body can contain description and/or task elements

Status Codes

- 200 OK – no error
- 403 Forbidden – not authorized
- 404 Not Found – not found

godweb.views.**api_marketplace_recipe_new** (*request*)

POST /api/1.0/marketplace/recipe/{str:recipe}

Create a recipe. Post body must contain description and task elements

Status Codes

- 200 OK – no error
- 403 Forbidden – not authorized
- 404 Not Found – not found

godweb.views.**api_marketplace_recipes** (*request*)

GET /api/1.0/marketplace/recipe

Get public recipes and user private recipes if logged

Response JSON Object

- **list** – {'id': recipe_id, 'description': recipe_description}

Status Codes

- 200 OK – no error

godweb.views.**api_ping** (*request*)

GET /api/1.0/ping

Ping web site

Response JSON Object

- **dict** – {'msg': 'pong'}

Status Codes

- 200 OK – no error

`godweb.views.api_project_create(request)`

POST /api/1.0/project

Create a project (admin only)

:<json dict:project :statuscode 200: no error :statuscode 401: need login/authentication :statuscode 403: not authorized

`godweb.views.api_project_delete(request)`

DELETE /api/1.0/project/{str:project}

Delete project details (admin only)

Statuscode 200 no error

Statuscode 401 need login/authentication

Statuscode 403 not authorized

`godweb.views.api_project_edit(request)`

POST /api/1.0/project/{str:project}

Update a project (owner and admin only)

Fields: description, members, prio, quota_time, quota_cpu, quota_ram, quota_gpu

:<json dict:project :statuscode 200: no error :statuscode 401: need login/authentication :statuscode 403: not authorized

`godweb.views.api_project_get(request)`

GET /api/1.0/project/{str:project}

Get project details (Admin only)

:>json dict:project :statuscode 200: no error :statuscode 401: need login/authentication :statuscode 403: not authorized

`godweb.views.api_project_list(request)`

GET /api/1.0/project

Get the list of projects (Admin only) or projects owner by user

>json list List of projects

Statuscode 200 no error

Statuscode 401 need login/authentication

Statuscode 403 not authorized

`godweb.views.api_project_quota_reset(request)`

DELETE /api/1.0/project/{str: id}/quota

Reset project usage quota (admin)

Status Codes

- 200 OK – no error

`godweb.views.api_project_usage(request)`

GET /api/1.0/project/(str: id)/usage

Get project usage (in project or admin)

Response JSON Object

- **list** – project usage { 'cpu', 'ram', 'time' }

Status Codes

- **200 OK** – no error

`godweb.views.api_prometheus(request)`

POST /api/1.0/prometheus

Push prometheus metrics, admin only via prometheus_key config parameter

Status Codes

- **200 OK** – no error

`godweb.views.api_task(request)`

PUT /api/1.0/task/(str: id)

Update a task, only requirements dynamic fields are supported dynamic_fields in config file.
Other parameters cannot be modified once task is create

Response JSON Object

- **list** – Update object with name/value pair, example { "name": "maxlifespan", "value": "6d" }

Status Codes

- **200 OK** – no error
- **401 Unauthorized** – need login/authentication
- **403 Forbidden** – not authorized

`godweb.views.api_task_active(request)`

GET /api/1.0/task/active

List running or pending tasks for user

Response JSON Object

- **dict** – List of tasks

Status Codes

- **200 OK** – no error
- **401 Unauthorized** – need login/authentication
- **403 Forbidden** – not authorized

`godweb.views.api_task_active_all(request)`

GET /api/1.0/task/active/all

List running or pending tasks for all users Restricted to administrators

Response JSON Object

- **dict** – List of tasks

Status Codes

- **200 OK** – no error
- **401 Unauthorized** – need login/authentication
- **403 Forbidden** – not authorized

`godweb.views.api_task_add(request)`

POST /api/1.0/task

Create a new task for user

Request JSON Object

- **body** (*dict*) – JSON task to add

Response JSON Object

- **dict** – {'msg': 'Task added', 'id': task_id}

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 503 Service Unavailable – service unavailable

godweb.views.api_task_archive(*request*)

GET /api/1.0/task/(int: task)/archive

Archive a task over

Response JSON Object

- **dict** – Task

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized
- 404 Not Found – not found

godweb.views.api_task_archive_delete(*request*)

DELETE /api/1.0/task/(int: task)/archive

Deletes a task over

Response JSON Object

- **dict** – Task

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized
- 404 Not Found – not found

godweb.views.api_task_file(*request*)

GET /api/1.0/task/(int: task)/files/*file

List task files if **file* is empty or a subdirectory of task directory, else download file matching **file*

Accept request header X-GODOCKER-SHARE containing a share token to access files

Response JSON Object

- **list** – List of files and directory in **file* if **file* is a directory

::>octet-stream: File content if **file* is a file :statuscode 200: no error :statuscode 401: need login/authentication :statuscode 403: not authorized :statuscode 404: not found :statuscode 503: service unavailable

godweb.views.api_task_file_share(*request*)

GET /api/1.0/task/(int: task)/share/{str:token}/files/*file

List shared task files if **file* is empty or a subdirectory of task directory, else download file matching **file*

Response JSON Object

- **list** – List of files and directory in **file* if **file* is a directory

::>octet-stream: File content if **file* is a file :statuscode 200: no error :statuscode 401: need login/authentication :statuscode 403: not authorized :statuscode 404: not found :statuscode 503: service unavailable

godweb.views.**api_task_get** (*request*)

GET /api/1.0/task/ (int: *task*)

Get a task X-GODOCKER-SHARE in headers to access via a share token.

Accept

Response JSON Object

- **dict** – Task

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized
- 404 Not Found – not found

godweb.views.**api_task_kill** (*request*)

DELETE /api/1.0/task/ (int: *task*)

Kill a running task

Response JSON Object

- **dict** – Task

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized
- 404 Not Found – not found

godweb.views.**api_task_monitor** (*request*)

GET /api/1.0/task/ (int: *container*) /monitor

Get monitoring info for container

Response JSON Object

- **dict** – Task

Status Codes

- 200 OK – no error
- 404 Not Found – not found

godweb.views.**api_task_over** (*request*)

GET /api/1.0/task/over

List last 100 finished tasks, or the last X tasks, if *limit* request parameter is set

Support for pagination with following optional request parameters: draw: set this to manage pagination and filtering start_date: timestamp to limit search in time end_date: timestamp to limit search in time start: number of tasks to skip limit: number of results to return reverse: set to *true* to reverse the results orderBy: field used to sort the results [id, name, container_image, user_id] regex: text to use to filter the results container regex value (case insensitive)

If pagination is enabled with *draw* parameter, result is an array of 1 element with fields:

data: list of tasks matching the conditions recordsTotal: total number of records

Response JSON Object

- **list** – List of tasks

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized

```
godweb.views.api_task_over_all(request)
```

GET /api/1.0/task/over/all

List over for all users (last 100) Restricted to administrators

Response JSON Object

- **dict** – List of tasks

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized

```
godweb.views.api_task_over_all_cursor(request)
```

POST /api/1.0/task/over/all/ (int: skip) /

int: limit

Get finished tasks for all users (Administrator only)

Params: skip: number of records to skip in search, limit: maximum number of records to return

Json optional filter: {'start': timestamp, 'end': timestamp}

Request JSON Object

- **dict** – Optional filter on task start date (timestamp)

Response JSON Object

- **dict** – List of tasks

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized

```
godweb.views.api_task_over_cursor(request)
```

POST /api/1.0/task/over/ (int: skip) /

int: limit

Get finished tasks

Params: skip: number of records to skip in search, limit: maximum number of records to return

Json optional filter: {'start': timestamp, 'end': timestamp}

Request JSON Object

- **dict** – Optional filter on task start date (timestamp)

Response JSON Object

- **dict** – List of tasks

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized

`godweb.views.api_task_pending(request)`

GET /api/1.0/task/(int: task)/pending

Switch a task in CREATED status to PENDING

Response JSON Object

- **dict** – Task

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized
- 404 Not Found – not found

`godweb.views.api_task_reschedule(request)`

GET /api/1.0/task/(int: task)/reschedule

Reschedule a running task

Response JSON Object

- **dict** – Task

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized
- 404 Not Found – not found

`godweb.views.api_task_resume(request)`

GET /api/1.0/task/(int: task)/resume

Resume a suspended task

Response JSON Object

- **dict** – Task

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized
- 404 Not Found – not found

`godweb.views.api_task_share(request)`

GET /api/1.0/task/(int: task)/share

Generate a token to share task with other people

Response JSON Object

- **dict** – dict containing token to use with /api/1.0/task/XXX?share=token

Status Codes

- 200 OK – no error
- 401 Unauthorized – need login/authentication
- 403 Forbidden – not authorized
- 404 Not Found – not found
- 503 Service Unavailable – service unavailable

`godweb.views.api_task_status(request)`

GET /api/1.0/task/(int: task)/status

Get a task status

Response JSON Object

- **dict** – Task

Status Codes

- **200 OK** – no error
- **401 Unauthorized** – need login/authentication
- **403 Forbidden** – not authorized
- **404 Not Found** – not found

```
godweb.views.api_task_suspend(request)
```

```
GET /api/1.0/task/(int: task)/suspend
```

Suspend a running task

Response JSON Object

- **dict** – Task

Status Codes

- **200 OK** – no error
- **401 Unauthorized** – need login/authentication
- **403 Forbidden** – not authorized
- **404 Not Found** – not found

```
godweb.views.api_task_token(request)
```

```
GET /api/1.0/task/(int: task)/token
```

Get a JWT encoded task to securely exchange a task with other services.

```
>json dict {'token': generated_token}
```

Statuscode 200 no error

Statuscode 401 need login/authentication

```
godweb.views.api_task_unshare(request)
```

```
GET /api/1.0/task/(int: task)/unshare
```

Generate a token to share task with other people

Response JSON Object

- **dict** – dict containing token to use with /api/1.0/task/XXX?share=token

Status Codes

- **200 OK** – no error
- **401 Unauthorized** – need login/authentication
- **403 Forbidden** – not authorized
- **404 Not Found** – not found
- **503 Service Unavailable** – service unavailable

```
godweb.views.api_usage(request)
```

```
GET /api/1.0/usage
```

Get framework resource usage

Response JSON Object

- **list** – list of nodes with resources

Status Codes

- **200 OK** – no error

```
godweb.views.api_user_apikey(request)
```

DELETE /api/1.0/user/{str:user}/apikey

Generate a new api key

>**json dict** new apikey

Statuscode 200 no error

Statuscode 401 need login/authentication

godweb.views.**api_user_billing**(request)

GET /api/1.0/(str: type) /

str: id/billing/:year/:month Get user usage (self or admin) for month and year, per project, or a per project whatever the users if project belongs to user type=user/project Optional *force* query parameter to force a refresh and not using cache (force=0/1)

Response JSON Object

- **list** – user usage { “_id”: { “user”: “XX”, “project”: “default” }, “cpu”: 758, “ram”: 1031, ‘gpus’: 3, ‘totaltime’: 12434 }

Status Codes

- **200 OK** – no error

godweb.views.**api_user_file**(request)

GET /api/1.0/user/(int: id) /files/*file

List user files from personal storage if **file* is empty or a subdirectory of task directory, else download file matching **file*

Response JSON Object

- **list** – List of files and directory in **file* if **file* is a directory

::>octet-stream: File content if **file* is a file :statuscode 200: no error :statuscode 401: need login/authentication :statuscode 403: not authorized :statuscode 404: not found :statuscode 503: service unavailable

godweb.views.**api_user_project_list**(request)

GET /api/1.0/user/{str:user}/project

Get the list of projects for user

>**json list** List of projects

Statuscode 200 no error

Statuscode 401 need login/authentication

Statuscode 403 not authorized

godweb.views.**api_user_task_delete**(request)

DELETE /api/1.0/user/(str: id) /task

Kill all user tasks (self or admin), optionally tasks with input query parameter **tag*=MYTAG*

Response JSON Object

- **list** – list of task ids

Status Codes

- **200 OK** – no error
- **401 Unauthorized** – need login/authentication
- **403 Forbidden** – not authorized

`godweb.views.guest_status(request)`

Update status of a user, user is in body

`godweb.views.prometheus(request)`

GET /metrics

Prometheus metrics

Status Codes

- 200 OK – no error

`godweb.views.prometheus_api_inc(request, method)`

Increment API calls for prometheus

`godweb.views.redis_call(request, f, *args, **kwargs)`

Executes a redis call, and retries connection and command in case of failure.

Example: `redis_call(self.rhset, field, keys, 1)`

`godweb.views.user_delete(request)`

PUT /api/1.0/user/ (str: id)

Delete user and all jobs info/data executed by this user (admin) WARNING: this operation cannot be reverted, all user info and jobs will be deleted

Status Codes

- 200 OK – no error

`godweb.views.user_info(request)`

GET /api/1.0/user/ (str: id)

Get user information (self or admin)

Response JSON Object

- dict – user data

Status Codes

- 200 OK – no error

`godweb.views.user_info_edit(request)`

PUT /api/1.0/user/ (str: id)

Update logged in user information (self or admin)

Request JSON Object

- dict – user data to update

Response JSON Object

- dict – user data

Status Codes

- 200 OK – no error

`godweb.views.user_list(request)`

GET /api/1.0/user (Admin only)

List users

Request JSON Object

- dict – user data to update

Response JSON Object

- dict – user data

Status Codes

- 200 OK – no error

`godweb.views.user_usage(request)`

GET /api/1.0/user/(str: id) /usage

Get user usage (self or admin)

Response JSON Object

- **list** – user usage { 'cpu', 'ram', 'time' }

Status Codes

- 200 OK – no error

CHAPTER 2

Indices and tables

- `genindex`
- `modindex`
- `search`

HTTP Routing Table

/admin

GET /admin/maintenance, 4

POST /admin/maintenance/ (str:node) / (str:status), 5

/api

GET /api/1.0/ (str:type) / (str:id) /billing/:year/:month, 15

GET /api/1.0/archive/ (int:days), 5

GET /api/1.0/config, 6

GET /api/1.0/image, 6

GET /api/1.0/image/ (str:image), 6

GET /api/1.0/marketplace/recipe, 7

GET /api/1.0/marketplace/recipe/{str:recipe}, 6

GET /api/1.0/ping, 7

GET /api/1.0/project, 8

GET /api/1.0/project/ (str:id) /usage, 9

GET /api/1.0/project/{str:project}, 8

GET /api/1.0/task/ (int:container) /monitor, 11

GET /api/1.0/task/ (int:task), 11

GET /api/1.0/task/ (int:task) /archive, 10

GET /api/1.0/task/ (int:task) /files/*file, 10

GET /api/1.0/task/ (int:task) /pending, 13

GET /api/1.0/task/ (int:task) /reschedule, 13

GET /api/1.0/task/ (int:task) /resume, 13

GET /api/1.0/task/ (int:task) /share, 13

GET /api/1.0/task/ (int:task) /share/{str:token} /files/*file, 10

GET /api/1.0/task/ (int:task) /status, 13

GET /api/1.0/task/ (int:task) /suspend, 14

GET /api/1.0/task/ (int:task) /token, 14

GET /api/1.0/task/ (int:task) /unshare,

14

GET /api/1.0/task/active, 9

GET /api/1.0/task/active/all, 9

GET /api/1.0/task/over, 11

GET /api/1.0/task/over/all, 12

GET /api/1.0/task/status/ (str:status) /count,

6

GET /api/1.0/usage, 14

GET /api/1.0/user (Admin only), 16

GET /api/1.0/user/ (int:id) /files/*file,

15

GET /api/1.0/user/ (str:id), 16

GET /api/1.0/user/ (str:id) /usage, 17

GET /api/1.0/user/{str:user} /project,

15

POST /api/1.0/authenticate, 5

POST /api/1.0/marketplace/recipe/{str:recipe},

7

POST /api/1.0/project, 8

POST /api/1.0/project/{str:project}, 8

POST /api/1.0/prometheus, 9

POST /api/1.0/task, 9

POST /api/1.0/task/over/ (int:skip) / (int:limit),

12

POST /api/1.0/task/over/all/ (int:skip) / (int:limit),

12

PUT /api/1.0/marketplace/recipe/{str:recipe},

7

PUT /api/1.0/task/ (str:id), 9

PUT /api/1.0/user/ (str:id), 16

DELETE /api/1.0/archive/ (int:days) ?tag=(string:tag),

5

DELETE /api/1.0/marketplace/recipe/{str:recipe},

7

DELETE /api/1.0/project/ (str:id) /quota,

8

DELETE /api/1.0/project/{str:project},

8

DELETE /api/1.0/task/ (int:task), 11

DELETE /api/1.0/task/ (int:task) /archive,

10

DELETE /api/1.0/user/{str:id}/task, 15

DELETE /api/1.0/user/{str:user}/apikey,

14

/metrics

GET /metrics, 16

g

`godweb.views`, 4

A

`admin_maintenance()` (in module `godweb.views`), 4
`admin_set_maintenance()` (in module `godweb.views`), 4
`api_app_token_add()` (in module `godweb.views`), 5
`api_app_token_delete()` (in module `godweb.views`), 5
`api_app_tokens()` (in module `godweb.views`), 5
`api_app_user_token()` (in module `godweb.views`), 5
`api_archive()` (in module `godweb.views`), 5
`api_archive_delete()` (in module `godweb.views`), 5
`api_auth()` (in module `godweb.views`), 5
`api_config()` (in module `godweb.views`), 6
`api_count_running()` (in module `godweb.views`), 6
`api_image_count()` (in module `godweb.views`), 6
`api_images()` (in module `godweb.views`), 6
`api_marketplace_recipe()` (in module `godweb.views`), 6
`api_marketplace_recipe_delete()` (in module `godweb.views`), 7
`api_marketplace_recipe_edit()` (in module `godweb.views`), 7
`api_marketplace_recipe_new()` (in module `godweb.views`), 7
`api_marketplace_recipes()` (in module `godweb.views`), 7
`api_ping()` (in module `godweb.views`), 7
`api_project_create()` (in module `godweb.views`), 7
`api_project_delete()` (in module `godweb.views`), 8
`api_project_edit()` (in module `godweb.views`), 8
`api_project_get()` (in module `godweb.views`), 8
`api_project_list()` (in module `godweb.views`), 8
`api_project_quota_reset()` (in module `godweb.views`), 8
`api_project_usage()` (in module `godweb.views`), 8
`api_prometheus()` (in module `godweb.views`), 9
`api_task()` (in module `godweb.views`), 9
`api_task_active()` (in module `godweb.views`), 9
`api_task_active_all()` (in module `godweb.views`), 9
`api_task_add()` (in module `godweb.views`), 9
`api_task_archive()` (in module `godweb.views`), 10
`api_task_archive_delete()` (in module `godweb.views`), 10
`api_task_file()` (in module `godweb.views`), 10
`api_task_file_share()` (in module `godweb.views`), 10

`api_task_get()` (in module `godweb.views`), 11
`api_task_kill()` (in module `godweb.views`), 11
`api_task_monitor()` (in module `godweb.views`), 11
`api_task_over()` (in module `godweb.views`), 11
`api_task_over_all()` (in module `godweb.views`), 12
`api_task_over_all_cursor()` (in module `godweb.views`), 12
`api_task_over_cursor()` (in module `godweb.views`), 12
`api_task_pending()` (in module `godweb.views`), 12
`api_task_reschedule()` (in module `godweb.views`), 13
`api_task_resume()` (in module `godweb.views`), 13
`api_task_share()` (in module `godweb.views`), 13
`api_task_status()` (in module `godweb.views`), 13
`api_task_suspend()` (in module `godweb.views`), 14
`api_task_token()` (in module `godweb.views`), 14
`api_task_unshare()` (in module `godweb.views`), 14
`api_usage()` (in module `godweb.views`), 14
`api_user_apikey()` (in module `godweb.views`), 14
`api_user_billing()` (in module `godweb.views`), 15
`api_user_file()` (in module `godweb.views`), 15
`api_user_project_list()` (in module `godweb.views`), 15
`api_user_task_delete()` (in module `godweb.views`), 15

G

`godweb.views` (module), 4
`guest_status()` (in module `godweb.views`), 15

P

`prometheus()` (in module `godweb.views`), 16
`prometheus_api_inc()` (in module `godweb.views`), 16

R

`redis_call()` (in module `godweb.views`), 16

U

`user_delete()` (in module `godweb.views`), 16
`user_info()` (in module `godweb.views`), 16
`user_info_edit()` (in module `godweb.views`), 16
`user_list()` (in module `godweb.views`), 16
`user_usage()` (in module `godweb.views`), 17