doapi Documentation

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Contents

1	Libra	ary	3				
	1.1	doapi Class	3				
	1.2	Droplets	11				
	1.3	Domains	19				
	1.4	Floating IPs	22				
	1.5	Images	23				
	1.6	SSH Keys	26				
	1.7	Immutable Resources	27				
	1.8	Utility Classes	30				
	1.9	Examples	31				
	1.10	Resource Objects	31				
		······································					
2	Com	ommand-Line Programs					
	2.1	doapi-account	33				
	2.2	doapi-action	33				
	2.3	doapi-domain	35				
	2.4	doapi-droplet	37				
	2.5	doapi-floating-ip	41				
	2.6	doapi-image	43				
	2.7	doapi-region	46				
	2.8	doapi-request	47				
	2.9	doapi-size	48				
	2.10	doapi-ssh-key	48				
	2.11	Common CLI Behavior	50				
3	Indic	ees and tables	53				
Bi	Bibliography						
Py	thon N	Module Index	57				

Contents:

Contents 1

2 Contents

Library

1.1 doapi Class

The primary class for interacting with the DigitalOcean API, used for creating and fetching resources. The resource objects returned by these methods have methods of their own for manipulating them individually.

Parameters

- api_token (str) the API token to use for authentication
- endpoint (string) the URL relative to which requests will be made
- timeout (float, tuple, or None) the timeout value to use when making requests
- wait_interval (number) the default number of seconds that "wait" operations will sleep for between requests
- wait_time the default number of seconds after which "wait" operations will return, or None or a negative number to wait indefinitely
- per_page (integer or None) the default number of objects that paginate() will fetch on each request, or None to leave unspecified

DEFAULT ENDPOINT = 'https://api.digitalocean.com'

The official DigitalOcean API endpoint

api_token = None

The API token used for authentication

endpoint = None

The API endpoint URL relative to which requests will be made

timeout = None

The timeout value to use when making requests; see the requests documentation for more information

wait_interval = None

The default number of seconds that wait_droplets(), wait_actions(), and the wait methods of Action, Droplet, FloatingIP, and Image will sleep for between requests

$wait_time = None$

The default number of seconds after which "wait" operations will return, or None or a negative number to wait indefinitely

per_page = None

The default number of objects that paginate () will fetch on each request, or None to leave unspecified

last response = None

The requests. Response object returned for the most recent request, or None if no requests have been made yet

last meta = None

The meta field in the body of the most recent response, or None if there was no such field, no requests have been made yet, or the last response was an error

session = None

The requests. Session object through which all requests are performed

close()

Close the session. All API methods will be unusable after calling this method.

Returns None

request (url, params=None, data=None, method='GET')

Perform an HTTP request and return the response body as a decoded JSON value

Parameters

- **url** (str) the URL to make the request of. If url begins with a forward slash, endpoint is prepended to it; otherwise, url is treated as an absolute URL.
- params (dict) parameters to add to the URL's query string
- data a value to send in the body of the request. If data is not a string, it will be serialized as JSON before sending; either way, the <code>Content-Type</code> header of the request will be set to <code>application/json</code>. Note that a data value of <code>None</code> means "Don't send any data"; to send an actual <code>None</code> value, convert it to JSON (i.e., the string "null") first.
- **method** (*str*) the HTTP method to use: "GET", "POST", "PUT", or "DELETE" (case-insensitive); default: "GET"

Returns a decoded JSON value, or None if no data was returned

Return type list or dict (depending on the request) or None

Raises

- ValueError if method is an invalid value
- **DOAPIError** if the API endpoint replies with an error

last rate limit

A dict of the rate limit information returned in the most recent response, or None if no requests have been made yet. The dict consists of all headers whose names begin with "RateLimit" (case insensitive).

The DigitalOcean API specifies the following rate limit headers:

Variables

- RateLimit-Limit (string) the number of requests that can be made per hour
- RateLimit-Remaining (string) the number of requests remaining until the limit is reached
- RateLimit-Reset (string) the Unix timestamp for the time when the oldest request will expire from rate limit consideration

paginate (url, key, params=None)

4

Fetch a sequence of paginated resources from the API endpoint. The initial request to url and all subsequent requests must respond with a JSON object; the field specified by key must be a list, whose elements

will be yielded, and the next request will be made to the URL in the .links.pages.next field until the responses no longer contain that field.

Parameters

- **url** (*str*) the URL to make the initial request of. If url begins with a forward slash, *endpoint* is prepended to it; otherwise, url is treated as an absolute URL.
- **key** (str) the field on each page containing a list of values to yield
- params (dict) parameters to add to the initial URL's query string. A "per_page" parameter may be included to override the default per_page setting.

Return type generator of decoded JSON values

Raises

- ValueError if a response body is not an object or key is not one of its keys
- **DOAPIError** if the API endpoint replies with an error

fetch_droplet(obj)

Fetch a droplet by ID number

Parameters obj (integer, dict, or *Droplet*) – the ID of the droplet, a dict with an "id" field, or a *Droplet* object (to re-fetch the same droplet)

Return type Droplet

Raises DOAPIError – if the API endpoint replies with an error

fetch all droplets()

Returns a generator that yields all of the droplets belonging to the account

Return type generator of *Droplets*

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_droplet_upgrades()

Returns a generator that yields <code>DropletUpgrade</code> objects describing droplets that are scheduled to be upgraded

Return type generator of *DropletUpgrades*

Raises DOAPIError – if the API endpoint replies with an error

create_droplet (name, image, size, region, ssh_keys=None, backups=None, ipv6=None, private networking=None, user data=None, **kwargs)

Create a new droplet. All fields other than name, image, size, and region are optional and will be omitted from the API request if not specified.

The returned <code>Droplet</code> object will represent the droplet at the moment of creation; the actual droplet may not be active yet and may not have even been assigned an IP address. To wait for the droplet to activate, use the <code>Droplet</code>'s <code>wait()</code> method.

Parameters

- name (str) a name for the droplet
- **image** (integer, string, or *Image*) the image ID, slug, or *Image* object representing the base image to use for the droplet
- size (string or Size) the slug or Size object representing the size of the new droplet
- region (string or Region) the slug or Region object representing the region in which to create the droplet

1.1. doapi Class 5

- **ssh_keys** (*iterable*) an iterable of SSH key resource IDs, SSH key fingerprints, and/or *SSHKey* objects specifying the public keys to add to the new droplet's /root/.ssh/authorized_keys file
- backups (bool) whether to enable automatic backups on the new droplet
- ipv6 (bool) whether to enable IPv6 on the new droplet
- private_networking (bool) whether to enable private networking for the new droplet
- user_data (str) a string of user data/metadata for the droplet
- kwargs additional fields to include in the API request

Returns the new droplet resource

Return type Droplet

Raises DOAPIError – if the API endpoint replies with an error

Create multiple new droplets at once with the same image, size, etc., differing only in name. All fields other than names, image, size, and region are optional and will be omitted from the API request if not specified.

The returned *Droplet* objects will represent the droplets at the moment of creation; the actual droplets may not be active yet and may not have even been assigned IP addresses. To wait for the droplets to activate, use their *wait()* method or *wait_droplets*.

Parameters

- names (list of strings) the names for the new droplets
- **image** (integer, string, or *Image*) the image ID, slug, or *Image* object representing the base image to use for the droplets
- size (string or Size) the slug or Size object representing the size of the new droplets
- **region** (string or *Region*) the slug or *Region* object representing the region in which to create the droplets
- **ssh_keys** (*iterable*) an iterable of SSH key resource IDs, SSH key fingerprints, and/or *SSHKey* objects specifying the public keys to add to the new droplets' /root/.ssh/authorized_keys files
- backups (bool) whether to enable automatic backups on the new droplets
- ipv6 (bool) whether to enable IPv6 on the new droplets
- **private_networking** (bool) whether to enable private networking for the new droplets
- user_data (str) a string of user data/metadata for the droplets
- **kwargs** additional fields to include in the API request

Returns the new droplet resources

Return type list of *Droplets*

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_droplet_neighbors()

6

Returns a generator of all sets of multiple droplets that are running on the same physical hardware

Return type generator of lists of *Droplets*

Raises DOAPIError – if the API endpoint replies with an error

wait_droplets (droplets, status=None, wait_interval=None, wait_time=None)

Poll the server periodically until all droplets in droplets have reached some final state, yielding each <code>Droplet</code>'s final value when it's done. If status is non-None, wait_droplets will wait for each droplet's status field to equal the given value; otherwise, it will wait for the most recent action on each droplet to finish.

If wait_time is exceeded or a KeyboardInterrupt is caught, any remaining droplets are returned immediately without waiting for completion.

Parameters

- **droplets** (*iterable*) an iterable of *Droplets* and/or other values that are acceptable arguments to *fetch_droplet* ()
- status (string or None) When non-None, the desired value for the status field of each <code>Droplet</code>, which should be one of <code>Droplet.STATUS_ACTIVE</code>, <code>Droplet.STATUS_ARCHIVE</code>, <code>Droplet.STATUS_NEW</code>, and <code>Droplet.STATUS_OFF</code>. (For the sake of forwards-compatibility, any other value is accepted as well.)
- wait_interval (number) how many seconds to sleep between requests; defaults to wait_interval if not specified or None
- wait_time (number) the total number of seconds after which the method will return, or a negative number to wait indefinitely; defaults to wait_time if not specified or None

Return type generator of *Droplets*

Raises DOAPIError – if the API endpoint replies with an error

fetch action(obj)

Fetch an action by ID number

Parameters obj (integer, dict, or Action) – the ID of the action, a dict with an "id" field, or an Action object (to re-fetch the same action)

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

fetch_last_action()

Fetch the most recent action performed on the account, or None if no actions have been performed yet. If multiple actions were triggered simultaneously, the choice of which to return is undefined.

Return type Action or None

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_actions()

Returns a generator that yields all of the actions associated with the account

Return type generator of Actions

Raises DOAPIError – if the API endpoint replies with an error

wait_actions (actions, wait_interval=None, wait_time=None)

Poll the server periodically until all actions in actions have either completed or errored out, yielding each Action's final value as it ends. If wait_time is exceeded or a KeyboardInterrupt is caught, any remaining actions are returned immediately without waiting for completion.

Parameters

1.1. doapi Class 7

- actions (iterable) an iterable of Actions and/or other values that are acceptable arguments to fetch action()
- wait_interval (number) how many seconds to sleep between requests; defaults to wait_interval if not specified or None
- wait_time (number) the total number of seconds after which the method will return, or a negative number to wait indefinitely; defaults to wait_time if not specified or None

Return type generator of *Actions*

Raises DOAPIError – if the API endpoint replies with an error

$fetch_sh_key(obj)$

Fetch an SSH public key by ID number or fingerprint

Parameters obj (integer, string, dict, or SSHKey) – the ID or fingerprint of the SSH key, a dict with an "id" or "fingerprint" field, or an SSHKey object (to re-fetch the same SSH key)

Return type SSHKey

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_ssh_keys()

Returns a generator that yields all of the SSH public keys belonging to the account

Return type generator of SSHKeys

Raises DOAPIError – if the API endpoint replies with an error

create_ssh_key (name, public_key, **kwargs)

Add a new SSH public key resource to the account

Parameters

- name (str) the name to give the new SSH key resource
- **public_key** (*str*) the text of the public key to register, in the form used by authorized_keys files
- kwargs additional fields to include in the API request

Returns the new SSH key resource

Return type SSHKey

Raises DOAPIError – if the API endpoint replies with an error

$fetch_image(obj)$

Fetch an image by ID number

Parameters obj (integer, dict, or *Image*) – the ID of the image, a dict with an "id" field, or an *Image* object (to re-fetch the same image)

Return type *Image*

Raises DOAPIError – if the API endpoint replies with an error

fetch_image_by_slug(slug)

Fetch an image by its slug

Parameters slug(str) – the slug of the image to fetch

Return type *Image*

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_images (type=None, private=False)

Returns a generator that yields all of the images available to the account

Parameters

- type (string or None) the type of images to fetch: "distribution", "application", or all (None); default: None
- **private** (bool) whether to only return the user's private images; default: False (i.e., return all images)

Return type generator of Images

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_distribution_images()

Returns a generator that yields all of the distribution images available to the account

Return type generator of *Images*

Raises DOAPIError – if the API endpoint replies with an error

fetch all application images()

Returns a generator that yields all of the application images available to the account

Return type generator of Images

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_private_images()

Returns a generator that yields all of the user's private images

Return type generator of *Images*

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_regions()

Returns a generator that yields all of the regions available to the account

Return type generator of Regions

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_sizes()

Returns a generator that yields all of the sizes available to the account

Return type generator of Sizes

Raises DOAPIError – if the API endpoint replies with an error

fetch account()

Returns an Account object representing the user's account

Return type *Account*

Raises DOAPIError – if the API endpoint replies with an error

$\mathtt{fetch_domain}\,(obj)$

Fetch a domain by FQDN

Parameters obj (string, dict, or *Domain*) – the domain name, a dict with a "name" field, or a *Domain* object (to re-fetch the same domain)

Return type Domain

Raises DOAPIError – if the API endpoint replies with an error

1.1. doapi Class 9

```
fetch all domains()
```

Returns a generator that yields all of the domains belonging to the account

Return type generator of *Domains*

Raises DOAPIError – if the API endpoint replies with an error

```
create_domain (name, ip_address, **kwargs)
```

Add a new domain name resource to the account.

Note that this method does not actually register a new domain name; it merely configures DigitalOcean's nameservers to provide DNS resolution for the domain. See How To Set Up a Host Name with DigitalOcean for more information.

Parameters

- name (str) the domain name to add
- ip_address (string or FloatingIP) the IP address to which the domain should point
- **kwargs** additional fields to include in the API request

Returns the new domain resource

Return type Domain

Raises DOAPIError – if the API endpoint replies with an error

```
fetch_floating_ip(obj)
```

Fetch a floating IP

Parameters obj (string, integer, dict, or FloatingIP) – an IP address (as a string or 32-bit integer), a dict with an "ip" field, or a FloatingIP object (to re-fetch the same floating IP)

Return type FloatingIP

Raises DOAPIError – if the API endpoint replies with an error

```
fetch_all_floating_ips()
```

Returns a generator that yields all of the floating IPs belonging to the account

Return type generator of FloatingIPs

Raises DOAPIError – if the API endpoint replies with an error

```
create_floating_ip (droplet_id=None, region=None, **kwargs)
```

Create a new floating IP assigned to a droplet or reserved to a region. Either droplet_id or region must be specified, but not both.

The returned <code>FloatingIP</code> object will represent the IP at the moment of creation; if the IP address is supposed to be assigned to a droplet, the assignment may not have been completed at the time the object is returned. To wait for the assignment to complete, use the <code>FloatingIP</code>'s <code>wait()</code> method.

Parameters

- **droplet_id** (integer or *Droplet*) the droplet to assign the floating IP to as either an ID or a *Droplet* object
- **region** (string or *Region*) the region to reserve the floating IP to as either a slug or a *Region* object
- kwargs additional fields to include in the API request

Returns the new floating IP

Return type *FloatingIP*

Raises

- TypeError if both droplet_id & region or neither of them are defined
- **DOAPIError** if the API endpoint replies with an error

1.2 Droplets

1.2.1 Droplet

class doapi.Droplet

A droplet resource, representing a virtual machine provided by DigitalOcean.

New droplets are created via the doapi.create_droplet() and doapi.create_multiple_droplets() methods and can be retrieved the with doapi.fetch droplet() and doapi.fetch all droplets() methods.

The DigitalOcean API specifies the following fields for droplet objects:

Variables

- id (int) a unique identifier for the droplet
- backup_ids (list of integers) image IDs of backups taken of the droplet
- created_at (datetime.datetime) date & time of the droplet's creation
- disk (number) size of the droplet's disk in gigabytes
- **features** (list of strings) a list of strings naming the features enabled on the droplet
- image (Image) the base image used to create the droplet
- kernel (Kernel or None) the droplet's current kernel
- locked (bool) whether the droplet is currently locked, preventing actions on it
- memory (number) RAM of the droplet in megabytes
- name (string) a human-readable name for the droplet
- networks (Networks) the network interfaces configured for the droplet
- next_backup_window (BackupWindow or None) the start & end of the next time-frame in which the droplet will be backed up; only defined if backups are enabled on the droplet
- region (Region) the region in which the droplet is located
- **size** (Size) the current size of the droplet
- **size_slug** (*string*) the unique slug identifier for the droplet's size
- snapshot_ids (list of integers) image IDs of snapshots taken of the droplet
- **status** (*string*) the current state of the droplet: "new", "active", "off", or "archive"
- vcpus (int) number of virtual CPUs

1.2. Droplets

action url

The endpoint for actions on the specific resource

act (**data)

Perform an arbitrary action on the resource. data will be serialized as JSON and POSTed to the resource's action_url. All currently-documented actions require the POST body to be a JSON object containing, at a minimum, a "type" field.

Returns an Action representing the in-progress operation on the resource

Return type Action

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_actions()

Returns a generator that yields all of the actions associated with the resource

Return type generator of Actions

Raises DOAPIError – if the API endpoint replies with an error

fetch_last_action()

Fetch the most recent action performed on the resource. If multiple actions were triggered simultaneously, the choice of which to return is undefined.

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

fetch_current_action()

Fetch the action currently in progress on the resource, or None if there is no such action

Return type Action or None

Raises DOAPIError – if the API endpoint replies with an error

___int___()

Convert the resource to its unique ID

STATUS_ACTIVE = 'active'

The status of droplets that are powered on and operating

STATUS_ARCHIVE = 'archive'

The status of "archived" droplets

STATUS_NEW = 'new'

The status of recently-created droplets that are not yet usable

STATUS OFF = 'off'

The status of droplets that are powered off

active

True iff the droplet's status is "active"

new

True iff the droplet's status is "new"

off

True iff the droplet's status is "off"

archive

True iff the droplet's status is "archive"

region_slug

The unique slug identifier for the droplet's region

image_slug

The unique slug identifier for the droplet's image, or None if the image doesn't have a slug

ip address

The IP address of the first interface listed in the droplet's networks field (ordering IPv4 before IPv6), or None if there are no interfaces

url

The endpoint for operations on the specific droplet

fetch()

Fetch & return a new Droplet object representing the droplet's current state

Return type Droplet

Raises DOAPIError – if the API endpoint replies with an error (e.g., if the droplet no longer exists)

fetch_all_neighbors()

Returns a generator that yields all of the droplets running on the same physical server as the droplet

Return type generator of *Droplets*

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_snapshots()

Returns a generator that yields all of the snapshot images created from the droplet

Return type generator of *Images*

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_backups()

Returns a generator that yields all of the backup images created from the droplet

Return type generator of Images

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_kernels()

Returns a generator that yields all of the kernels available to the droplet

Return type generator of *Kernels*

Raises DOAPIError – if the API endpoint replies with an error

enable_backups()

Enable backups on the droplet

Returns an Action representing the in-progress operation on the droplet

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

disable_backups()

Disable backups on the droplet

Returns an Action representing the in-progress operation on the droplet

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

reboot()

Reboot the droplet

1.2. Droplets

A reboot action is an attempt to reboot the Droplet in a graceful way, similar to using the **reboot** command from the console. [APIDocs]

Returns an Action representing the in-progress operation on the droplet

Return type Action

Raises DOAPIError – if the API endpoint replies with an error

power_cycle()

Power cycle the droplet

A powercycle action is similar to pushing the reset button on a physical machine, it's similar to booting from scratch. [APIDocs]

Returns an Action representing the in-progress operation on the droplet

Return type Action

Raises DOAPIError – if the API endpoint replies with an error

shutdown()

Shut down the droplet

A shutdown action is an attempt to shutdown the Droplet in a graceful way, similar to using the **shutdown** command from the console. Since a shutdown command can fail, this action guarantees that the command is issued, not that it succeeds. The preferred way to turn off a Droplet is to attempt a shutdown, with a reasonable timeout, followed by a power off action to ensure the Droplet is off. [APIDocs]

Returns an Action representing the in-progress operation on the droplet

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

power_off()

Power off the droplet

A power_off event is a hard shutdown and should only be used if the <code>shutdown()</code> action is not successful. It is similar to cutting the power on a server and could lead to complications. <code>[APIDocs]</code>

Returns an Action representing the in-progress operation on the droplet

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

power_on()

Power on the droplet

Returns an Action representing the in-progress operation on the droplet

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

restore (image)

Restore the droplet to the specified backup image

A Droplet restoration will rebuild an image using a backup image. The image ID that is passed in must be a backup of the current Droplet instance. The operation will leave any embedded SSH keys intact. [APIDocs]

Parameters image (integer, string, or *Image*) – an image ID, an image slug, or an *Image* object representing a backup image of the droplet

Returns an Action representing the in-progress operation on the droplet

Return type Action

Raises DOAPIError – if the API endpoint replies with an error

password_reset()

Reset the password for the droplet

Returns an Action representing the in-progress operation on the droplet

Return type Action

Raises DOAPIError – if the API endpoint replies with an error

resize (size, disk=None)

Resize the droplet

Parameters

- size (string or Size) a size slug or a Size object representing the size to resize to
- disk (bool) Set to True for a permanent resize, including disk changes

Returns an Action representing the in-progress operation on the droplet

Return type Action

Raises DOAPIError – if the API endpoint replies with an error

rebuild(image)

Rebuild the droplet with the specified image

A rebuild action functions just like a new create. [APIDocs]

Parameters image (integer, string, or *Image*) – an image ID, an image slug, or an *Image* object representing the image the droplet should use as a base

Returns an Action representing the in-progress operation on the droplet

Return type Action

Raises DOAPIError – if the API endpoint replies with an error

rename (name)

Rename the droplet

Parameters name (str) – the new name for the droplet

Returns an Action representing the in-progress operation on the droplet

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

change_kernel (kernel)

Change the droplet's kernel

1.2. Droplets

Parameters kernel (integer or Kernel) – a kernel ID or Kernel object representing the new kernel **Returns** an Action representing the in-progress operation on the droplet **Return type** *Action* **Raises** DOAPIError – if the API endpoint replies with an error

enable ipv6()

Enable IPv6 networking on the droplet

Returns an Action representing the in-progress operation on the droplet

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

enable_private_networking()

Enable private networking on the droplet

Returns an Action representing the in-progress operation on the droplet

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

snapshot (name)

Create a snapshot image of the droplet

Parameters name (str) – the name for the new snapshot

Returns an Action representing the in-progress operation on the droplet

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

upgrade()

Upgrade the droplet

Returns an Action representing the in-progress operation on the droplet

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

delete()

Delete the droplet

Returns None

Raises DOAPIError – if the API endpoint replies with an error

wait (status=None, wait interval=None, wait time=None)

Poll the server periodically until the droplet has reached some final state. If status is non-None, wait will wait for the droplet's status field to equal the given value; otherwise, it will wait for the most recent action on the droplet to finish.

If wait_time is exceeded or a KeyboardInterrupt is caught, the droplet's most recently fetched state is returned immediately without waiting for completion.

Parameters

• status (string or None) - When non-None, the desired value for the status field of the droplet, which should be one of Droplet.STATUS ACTIVE, Droplet.STATUS ARCHIVE, Droplet.STATUS NEW,

Droplet.STATUS_OFF. (For the sake of forwards-compatibility, any other value is accepted as well.)

- wait_interval (number) how many seconds to sleep between requests; defaults to the doapi object's wait_interval if not specified or None
- wait_time (number) the total number of seconds after which the method will return, or a negative number to wait indefinitely; defaults to the doapi object's wait_time if not specified or None

Returns the droplet's final state

Return type Droplet

Raises DOAPIError – if the API endpoint replies with an error

1.2.2 BackupWindow

class doapi.BackupWindow

A backup window resource, representing an upcoming timeframe in which a droplet is scheduled to be backed up.

A Droplet's next backup window is stored in its next_backup_window attribute.

The DigitalOcean API implicitly specifies the following fields for backup window objects:

Variables

- start (datetime.datetime) beginning of the window
- end (datetime.datetime) end of the window

droplet

The Droplet associated with the backup window

fetch_droplet()

Fetch the droplet to which the resource belongs, or return None if the resource's droplet attribute is None

Return type Droplet or None

Raises DOAPIError – if the API endpoint replies with an error

1.2.3 DropletUpgrade

class doapi.DropletUpgrade

A droplet upgrade resource, representing a scheduled upgrade of a droplet.

The set of all currently-scheduled upgrades can be retrieved with the $doapi.fetch_all_droplet_upgrades()$ method.

The DigitalOcean API specifies the following fields for droplet upgrade objects:

Variables

- date_of_migration (datetime.datetime) date & time that the droplet will be migrated
- **droplet** id (int) the ID of the affected droplet
- url (string) the endpoint for operations on the affected droplet

1.2. Droplets

fetch droplet()

Fetch the droplet affected by the droplet upgrade

Return type Droplet

Raises DOAPIError – if the API endpoint replies with an error

1.2.4 Kernel

class doapi.Kernel

A kernel resource, representing a kernel version that can be installed on a given droplet.

A *Droplet*'s current kernel is stored in its kernel attribute, and the set of kernels available to a given *Droplet* can be retrieved with the droplet.fetch_all_kernels() method.

The DigitalOcean API specifies the following fields for kernel objects:

Variables

- id (int) a unique identifier for the kernel
- name (string) a human-readable name for the kernel
- **version** (*string*) the version string for the kernel

droplet

The Droplet associated with the kernel

fetch_droplet()

Fetch the droplet to which the resource belongs, or return None if the resource's droplet attribute is None

Return type Droplet or None

Raises DOAPIError – if the API endpoint replies with an error

___int___()

Convert the resource to its unique ID

1.2.5 Networks

class doapi.Networks

A networks resource, representing a set of network interfaces configured for a specific droplet.

A *Droplet*'s network information is stored in its networks attribute.

The DigitalOcean API implicitly specifies the following fields for networks objects:

Variables

- v4 (list of NetworkInterfaces) a list of IPv4 interfaces allocated for a droplet
- v6 (list of NetworkInterfaces) a list of IPv6 interfaces allocated for a droplet

droplet

18

The Droplet associated with the networks resource

fetch_droplet()

Fetch the droplet to which the resource belongs, or return None if the resource's droplet attribute is None

 $Return \ type \ \textit{Droplet} \ or \ \texttt{None} \\$

Raises DOAPIError – if the API endpoint replies with an error

1.2.6 NetworkInterface

class doapi. NetworkInterface

A network interface resource, representing an IP address allocated to a specific droplet.

A *Droplet*'s network interfaces are listed in its networks attribute.

The DigitalOcean API implicitly specifies the following fields for network interface objects:

Variables

```
• gateway (string) - gateway
```

- ip_address (string) IP address
- netmask netmask
- type "public" or "private"

droplet

The Droplet to which the network interface belongs

ip_version

The IP version used by the interface: 4 or 6

fetch_droplet()

Fetch the droplet to which the resource belongs, or return None if the resource's droplet attribute is None

```
Return type Droplet or None
```

Raises DOAPIError – if the API endpoint replies with an error

```
__str__()
```

Show just the IP address of the interface

1.3 Domains

1.3.1 Domain

class doapi.Domain

A domain resource, representing a domain name whose DNS is managed by DigitalOcean's nameservers.

New domains are created via the <code>doapi.create_domain()</code> method and can be retrieved with the <code>doapi.fetch_domain()</code> and <code>doapi.fetch_all_domains()</code> methods.

The DigitalOcean API specifies the following fields for domain objects:

Variables

- name (string) the domain name
- ttl (number) the time-to-live for the domain's records, in seconds
- **zone_file** (*string*) the complete zone file for the domain

__str__()

Convert the domain to just the actual domain name

1.3. Domains 19

```
url
     The endpoint for operations on the specific domain
fetch()
     Fetch & return a new Domain object representing the domain's current state
         Return type Domain
         Raises DOAPIError - if the API endpoint replies with an error (e.g., if the domain no longer
             exists)
delete()
     Delete the domain
         Returns None
         Raises DOAPIError – if the API endpoint replies with an error
record_url
     The endpoint for operations on the domain's DNS records
fetch record (obj)
     Fetch a domain record by ID number
         Parameters obj (integer, dict, or DomainRecord) - the ID of the record, a dict with an
             "id" field, or a DomainRecord object (to re-fetch the same record)
         Return type DomainRecord
         Raises DOAPIError – if the API endpoint replies with an error
fetch all records()
     Returns a generator that yields all of the DNS records for the domain
         Return type generator of DomainRecords
         Raises DOAPIError – if the API endpoint replies with an error
create_record (type, name, data, priority=None, port=None, weight=None, **kwargs)
     Add a new DNS record to the domain
         Parameters
             • type (str) – the type of DNS record to add ("A", "CNAME", etc.)
             • name (str) – the name (hostname, alias, etc.) of the new record
             • data (str) - the value of the new record
             • priority (int) – the priority of the new record (SRV and MX records only)
             • port (int) – the port that the service is accessible on (SRV records only)
             • weight (int) – the weight of records with the same priority (SRV records only)
             • kwargs – additional fields to include in the API request
         Returns the new domain record
         Return type DomainRecord
         Raises DOAPIError – if the API endpoint replies with an error
```

1.3.2 DomainRecord

class doapi.DomainRecord

A domain record resource, representing an individual DNS record that can be set & modified by the user of the DigitalOcean API.

New domain records are created via the <code>Domain.create_record()</code> method and can be retrieved with the <code>Domain.fetch_record()</code> and <code>Domain.fetch_all_records()</code> methods.

The DigitalOcean API specifies the following fields for domain record objects:

Variables

- id (int) a unique identifier for the domain record
- type (string) the type of the DNS record
- name (string) the name of the DNS record
- data (string) the value of the DNS record
- priority (number or None) the priority of the record (SRV and MX records only)
- port (number or None) the port of the record (SRV records only)
- weight (number or None) the weight of the record (SRV records only)

domain

The *Domain* to which the record belongs

```
___int___()
```

Convert the resource to its unique ID

url

The endpoint for operations on the specific domain record

fetch()

Fetch & return a new DomainRecord object representing the domain record's current state

```
Return type DomainRecord
```

Raises DOAPIError – if the API endpoint replies with an error (e.g., if the domain record no longer exists)

fetch_domain()

Fetch & return the domain resource that the record belongs to

Return type Domain

Raises DOAPIError – if the API endpoint replies with an error

```
update_record(**attrs)
```

Update the record, modifying any number of its attributes (except id). update_record takes the same keyword arguments as <code>Domain.create_record()</code>; pass in only those attributes that you want to update.

Returns an updated DomainRecord object

Return type DomainRecord

Raises DOAPIError – if the API endpoint replies with an error

delete()

Delete the domain record

Returns None

1.3. Domains 21

Raises DOAPIError – if the API endpoint replies with an error

1.4 Floating IPs

1.4.1 FloatingIP

class doapi.FloatingIP

A floating IP resource, representing a public IP address that can be (re)assigned at any time to any droplet in a certain region.

New floating IPs are created via the <code>doapi.create_floating_ip()</code> method and can be retrieved with the <code>doapi.fetch_floating_ip()</code> and <code>doapi.fetch_all_floating_ips()</code> methods.

The DigitalOcean API specifies the following fields for floating IP objects:

Variables

- ip (string) the IP address
- **droplet** (Droplet or None) the droplet the floating IP is currently assigned to, or None if the address is currently unassigned
- region (Region) the region the floating IP is reserved to

action_url

The endpoint for actions on the specific resource

act (**data)

Perform an arbitrary action on the resource. data will be serialized as JSON and POSTed to the resource's action_url. All currently-documented actions require the POST body to be a JSON object containing, at a minimum, a "type" field.

Returns an Action representing the in-progress operation on the resource

Return type Action

Raises DOAPIError – if the API endpoint replies with an error

wait (wait_interval=None, wait_time=None)

Poll the server periodically until the resource's most recent action has either completed or errored out, and return the resource's final state afterwards. If wait_time is exceeded or a KeyboardInterrupt is caught, the resource's current state is returned immediately without waiting for completion.

Parameters

- wait_interval (number) how many seconds to sleep between requests; defaults to the doapi object's wait_interval if not specified or None
- wait_time (number) the total number of seconds after which the method will return, or a negative number to wait indefinitely; defaults to the doapi object's wait_time if not specified or None

Returns the resource's final state

Raises DOAPIError – if the API endpoint replies with an error

fetch_all_actions()

Returns a generator that yields all of the actions associated with the resource

Return type generator of *Actions*

Raises DOAPIError – if the API endpoint replies with an error

```
fetch last action()
     Fetch the most recent action performed on the resource. If multiple actions were triggered simultaneously,
     the choice of which to return is undefined.
         Return type Action
         Raises DOAPIError – if the API endpoint replies with an error
fetch current action()
     Fetch the action currently in progress on the resource, or None if there is no such action
         Return type Action or None
         Raises DOAPIError – if the API endpoint replies with an error
_str__()
     Convert the floating IP to just the actual IP address
url
     The endpoint for operations on the specific floating IP
fetch()
     Fetch & return a new Floating IP object representing the floating IP's current state
         Return type FloatingIP
         Raises DOAPIError - if the API endpoint replies with an error (e.g., if the floating IP no longer
             exists)
delete()
     Delete the floating IP
         Returns None
         Raises DOAPIError – if the API endpoint replies with an error
assign (droplet_id)
     Assign the floating IP to a droplet
         Parameters droplet_id (integer or Droplet) - the droplet to assign the floating IP to as
             either an ID or a Droplet object
         Returns an Action representing the in-progress operation on the floating IP
         Return type Action
         Raises DOAPIError – if the API endpoint replies with an error
unassign()
     Unassign the floating IP
         Returns an Action representing the in-progress operation on the floating IP
         Return type Action
         Raises DOAPIError – if the API endpoint replies with an error
```

1.5 Images

1.5.1 Image

class doapi. Image

An image resource, representing an OS image that can be used to create or reset a droplet.

1.5. Images 23

New images can be created via the <code>Droplet.snapshot()</code> method. They are also automatically created regularly for droplets that have backups enabled. Images can be retrieved with the <code>doapi.fetch_image()</code> and <code>doapi.fetch_all_images()</code> methods, among others.

The DigitalOcean API specifies the following fields for domain objects:

Variables

- id (int) a unique identifier for the image
- created at (datetime.datetime) date & time of the image's creation
- distribution (string) the base Linux distribution used for the image
- min_disk_size (number) the minimum disk size required for a droplet to use the image
- name (string) a human-readable name for the image
- **public** (bool) whether the image is public (i.e., available to all accounts) or not (i.e., only accessible from your account)
- regions (list of strings) the slugs of the regions in which the image is available
- **slug** (string or None) the unique slug identifier for the image (only defined for public images)
- type (string) the type of the image: "snapshot" or "backup"

droplet

The *Droplet* to which the image belongs. This attribute is only defined for *Droplet.image* attributes and the images returned by the *Droplet.fetch_all_backups()* and the *Droplet.fetch_all_snapshots()* methods. Images obtained by any other means have this attribute set to None.

action url

The endpoint for actions on the specific resource

act (**data)

Perform an arbitrary action on the resource. data will be serialized as JSON and POSTed to the resource's action_url. All currently-documented actions require the POST body to be a JSON object containing, at a minimum, a "type" field.

Returns an Action representing the in-progress operation on the resource

Return type Action

Raises DOAPIError – if the API endpoint replies with an error

wait (wait interval=None, wait time=None)

Poll the server periodically until the resource's most recent action has either completed or errored out, and return the resource's final state afterwards. If wait_time is exceeded or a KeyboardInterrupt is caught, the resource's current state is returned immediately without waiting for completion.

Parameters

- wait_interval (number) how many seconds to sleep between requests; defaults to the doapi object's wait_interval if not specified or None
- wait_time (number) the total number of seconds after which the method will return, or a negative number to wait indefinitely; defaults to the doapi object's wait_time if not specified or None

Returns the resource's final state

```
Raises DOAPIError – if the API endpoint replies with an error
fetch all actions()
     Returns a generator that yields all of the actions associated with the resource
         Return type generator of Actions
         Raises DOAPIError – if the API endpoint replies with an error
fetch_last_action()
     Fetch the most recent action performed on the resource. If multiple actions were triggered simultaneously,
     the choice of which to return is undefined.
         Return type Action
         Raises DOAPIError – if the API endpoint replies with an error
fetch current action()
     Fetch the action currently in progress on the resource, or None if there is no such action
         Return type Action or None
         Raises DOAPIError – if the API endpoint replies with an error
fetch droplet()
     Fetch the droplet to which the resource belongs, or return None if the resource's droplet attribute is
         Return type Droplet or None
         Raises DOAPIError – if the API endpoint replies with an error
___int___()
     Convert the resource to its unique ID
__str__()
     Convert the image to its slug representation. If the image does not have a slug, an AttributeError is
     raised.
url
     The endpoint for operations on the specific image
fetch()
     Fetch & return a new Image object representing the image's current state
         Return type Image
         Raises DOAPIError - if the API endpoint replies with an error (e.g., if the image no longer
             exists)
update_image (name)
     Update (i.e., rename) the image
         Parameters name (str) – the new name for the image
         Returns an updated Image object
         Return type Image
         Raises DOAPIError – if the API endpoint replies with an error
delete()
     Delete the image
         Returns None
         Raises DOAPIError – if the API endpoint replies with an error
```

1.5. Images 25

update_ssh_key(name)

Update (i.e., rename) the SSH key

```
transfer (region)
          Transfer the image to another region
              Parameters region (string or Region) – the slug or Region object representing the region
                  to which to transfer the image
              Returns an Action representing the in-progress operation on the image
              Return type Action
              Raises DOAPIError – if the API endpoint replies with an error
     convert()
          Convert the image to a snapshot
              Returns an Action representing the in-progress operation on the image
              Return type Action
              Raises DOAPIError – if the API endpoint replies with an error
1.6 SSH Keys
1.6.1 SSHKey
class doapi. SSHKev
     An SSH key resource, representing an SSH public key that can be automatically added to the
     /root/.ssh/authorized_keys files of new droplets.
     New SSH keys are created via the doapi.create_ssh_key() method and can be retrieved with the
     doapi.fetch_ssh_key() and doapi.fetch_all_ssh_keys() methods.
     The DigitalOcean API specifies the following fields for SSH key objects:
          Variables
                • id (int) – a unique identifier for the SSH key
                • fingerprint (string) – the unique fingerprint of the SSH key
                • name (string) – a human-readable name for the SSH key

    public_key (string) – the entire SSH public key as it was uploaded to DigitalOcean

     ___int___()
          Convert the resource to its unique ID
     __str__()
          Convert the SSH key to its fingerprint
     url
          The endpoint for operations on the specific SSH key
     fetch()
          Fetch & return a new SSHKey object representing the SSH key's current state
              Return type SSHKey
              Raises DOAPIError - if the API endpoint replies with an error (e.g., if the SSH key no longer
                  exists)
```

```
Parameters name (str) – the new name for the SSH key
```

Returns an updated SSHKey object

Return type SSHKey

Raises DOAPIError – if the API endpoint replies with an error

delete()

Delete the SSH key

Returns None

Raises DOAPIError – if the API endpoint replies with an error

1.7 Immutable Resources

1.7.1 Account

class doapi. Account

An account resource describing the user's DigitalOcean account.

Current details on the user's account can be retrieved with the doapi.fetch_account() method.

The DigitalOcean API specifies the following fields for account objects:

Variables

- **droplet_limit** (*int*) the maximum number of droplets the account may have at any one time
- email (string) the e-mail address the account used to register for DigitalOcean
- email_verified (bool) whether the user's account has been verified via e-mail
- **floating_ip_limit** (*int*) the maximum number of floating IPs the account may have at any one time
- status (string) the status of the account: "active", "warning", or "locked"
- **status_message** a human-readable string describing the status of the account
- uuid (alphanumeric string) a UUID for the user

STATUS ACTIVE = 'active'

The status of an account that is currently active and warning-free

STATUS_WARNING = 'warning'

The status of an account that is currently in a "warning" state, e.g., from having reached the droplet limit

STATUS LOCKED = 'locked'

The status of a locked account

fetch()

Fetch & return a new Account object representing the account's current state

Return type Account

Raises DOAPIError – if the API endpoint replies with an error

url

The endpoint for operations on the user's account

1.7.2 Action

class doapi. Action

An action resource, representing a change made to another resource.

Actions are created in response to almost all mutating requests on droplets, images, and floating IPs, and they can be retrieved with the <code>doapi.fetch_action()</code>, <code>doapi.fetch_last_action()</code>, <code>doapi.fetch_all_actions()</code> methods as well as the <code>fetch_all_actions</code>, <code>fetch_last_action</code>, and <code>fetch_current_action</code> methods of <code>Droplet</code>, <code>Image</code>, and <code>FloatingIP</code>.

The DigitalOcean API specifies the following fields for action objects:

Variables

- id (int) a unique identifier for the action
- completed_at (datetime.datetime or None) date & time of the action's completion, or None if the action has not completed yet
- region (Region) the region in which the action occurred
- region_slug (string) the unique slug identifier for the region in which the action occurred
- **resource_id** (*int*) the unique ID of the resource that the action operated on. If the resource was a droplet or image, this will be its id field. If the resource was a floating IP, this will be the IP address as a 32-bit integer.
- resource_type (string) the type of resource that the action operated on: "droplet", "image", or "floating_ip"
- started_at (datetime.datetime) date & time of the action's initiation
- **status**(*string*) the current status of the action: "in-progress", "completed", or "errored"
- type (string) the type of action performed

___int___()

Convert the resource to its unique ID

STATUS_IN_PROGRESS = 'in-progress'

The status of actions that are currently still in progress

STATUS_COMPLETED = 'completed'

The status of actions that have completed successfully

STATUS ERRORED = 'errored'

The status of actions that failed to complete successfully

completed

True iff the action's status is "completed"

in_progress

True iff the action's status is "in-progress"

done

True iff the action's status is not "in-progress"

errored

True iff the action's status is "errored"

url

The endpoint for operations on the specific action

fetch()

Fetch & return a new Action object representing the action's current state

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

fetch resource()

Fetch & return the resource that the action operated on, or None if the resource no longer exists (specifically, if the API returns a 404)

Return type Droplet, Image, Floating IP, or None

Raises

- **ValueError** if the action has an unknown resource_type (This indicates a deficiency in the library; please report it!)
- **DOAPIError** if the API endpoint replies with a non-404 error

wait (wait_interval=None, wait_time=None)

Poll the server periodically until the action has either completed or errored out and return its final state. If wait_time is exceeded or a KeyboardInterrupt is caught, the action's most recently fetched state is returned immediately without waiting for completion.

Parameters

- wait_interval (number) how many seconds to sleep between requests; defaults to the doapi object's wait_interval if not specified or None
- wait_time (number) the total number of seconds after which the method will return, or a negative number to wait indefinitely; defaults to the doapi object's wait_time if not specified or None

Returns the action's final state

Return type *Action*

Raises DOAPIError – if the API endpoint replies with an error

1.7.3 Region

class doapi.Region

A region resource, representing a physical datacenter in which droplets can be located.

Available regions can be retreived with the doapi.fetch all regions () method.

The DigitalOcean API specifies the following fields for region objects:

Variables

- available (bool) whether new droplets can be created in the region
- **features** (list of strings) a list of strings naming the features available in the region
- name (string) a human-readable name for the region
- sizes (list of strings) the slugs of the sizes available in the region
- **slug** (string) the unique slug identifier for the region

```
str ()
```

Convert the region to its slug representation

1.7.4 Size

class doapi.Size

A size resource, representing an option for the amount of RAM, disk space, etc. provisioned for a droplet.

Available sizes can be retreived with the doapi.fetch_all_sizes() method.

The DigitalOcean API specifies the following fields for size objects:

Variables

- available (bool) whether new droplets can be created with this size
- disk (number) disk size of a droplet of this size in gigabytes
- memory (number) RAM of a droplet of this size in megabytes
- price_hourly (number) the hourly cost for a droplet of this size in USD
- price_monthly (number) the monthly cost for a droplet of this size in USD
- regions (list of strings) the slugs of the regions in which this size is available
- **slug** (*string*) the unique slug identifier for the size
- **transfer** (number) the amount of transfer bandwidth in terabytes available for a droplet of this size
- vcpus (int) the number of virtual CPUs on a droplet of this size

```
___str___()
```

Convert the size to its slug representation

1.8 Utility Classes

1.8.1 DOAPIError

exception doapi.DOAPIError (response)

An exception raised in reaction to the API endpoint responding with a 4xx or 5xx error. If the body of the response is a JSON object, its fields will be added to the DOAPIError's attributes (except where a pre-existing attribute would be overwritten). DigitalOcean error response bodies have been observed to consist of an object with two string fields, "id" and "message".

Note that this class is only for representing errors reported by the endpoint in response to API requests. Everything else that can go wrong uses the normal Python exceptions.

response = None

The requests. Response object

$http_error_msg = None$

An error message that should be appropriate for human consumption, containing the type of HTTP error, the URL that was requested, and the body of the response.

1.8.2 DOEncoder

iterators to lists. **default** (*obi*)

1.9 Examples

```
# Shut.
# Down.
# EVERYTHING.
actions = []

for droplet in manager.fetch_all_droplets():
    if droplet.active: # Only droplets that are already up can be shut down.
        actions.append(droplet.shutdown())

# `list` forces the generator returned by `wait_actions` to be fully
# evaluated, thereby making Python wait until all of the shutdown actions
# have completed.
list(manager.wait_actions(actions))
```

Todo

Organize this better

Todo

Document potential weirdness when accessing doapi.last_* while a generator is being evaluated

All public non-magic methods (except doapi.close) perform API requests and may raise a DOAPIError.

Under normal circumstances, the fetch and fetch_all_* methods of a resource will only raise a DOAPIError if the resource no longer exists.

Generators producing objects always yield them in whatever order the API endpoint returns them in.

If you want all paginated results to be fetched at once, wrap the generator in list().

Passing objects produced by one doapi object to methods of another results in undefined behavior.

1.10 Resource Objects

Todo

Document doapi_manager and conversion to a dict

1.9. Examples 31

Instances of classes representing DigitalOcean API resources — i.e., Account, Action, BackupWindow, Domain, DomainRecord, Droplet, DropletUpgrade, FloatingIP, Image, Kernel, NetworkInterface, Networks, Region, SSHKey, and Size — make their API fields available in three different ways:

- as regular object attributes: droplet.id
- via indexing: droplet ["id"]
- via indexing the fields dictionary attribute: droplet.fields["id"]

Modifying a resource object's fields only affects your local copy of the resource's data; to actually modify the resource on DigitalOcean's servers, call one of the object's methods.

Note that calling a mutating method on a resource object simply sends a request to the API endpoint and does not modify the local Python object. To get the most up-to-date information on a resource, you must call the resource object's fetch method to acquire a new object.

Note that resource objects have whatever attributes the API returns them with, which may or may not be the same set of attributes as the documentation says they should have. Also note that only documented attributes are ever converted to custom classes; e.g., if the API suddenly returns an SSH key with a "region" field, the region data will be left as a dict rather than converted to a Region.

Command-Line Programs

2.1 doapi-account

2.1.1 **NAME**

doapi-account — fetch DigitalOcean account data

2.1.2 SYNOPSIS

doapi-account [<universal options>] [--rate-limit]

2.1.3 DESCRIPTION

doapi-account displays the current information about your DigitalOcean account as available via the API. The account information is output as an *Account* object converted to JSON.

2.1.4 OPTIONS

In addition to the *universal options* common to all **doapi** commands, **doapi-account** takes the following:

--rate-limit

Fetch the account data, but instead of displaying it, output the rate limit headers from the response. (The account data is only requested so that there's a response to get the headers from.)

2.2 doapi-action

2.2.1 NAME

doapi-action — manage DigitalOcean API actions

2.2.2 SYNOPSIS

```
doapi-action show [<action> ...]
doapi-action show {--in-progress | --last}
doapi-action wait [--wait-time <seconds>] [--wait-interval <seconds>] [<action> ...]
doapi-action resource <action> ...
doapi-action resource {--in-progress | --last}
```

doapi-action also takes the *universal options* common to all doapi commands.

Actions are specified by ID number.

2.2.3 show

```
doapi-action show [<action> ...]
doapi-action show {--in-progress | --last}
```

Show the given actions. If no actions or flags are specified, all actions ever performed on the account are shown. The actions are output as a list of Action objects converted to JSON.

Options

--in-progress

Show only the currently in-progress actions

--last

Show only the most recent action performed on the account instead of a list of all actions. If multiple actions were triggered simultaneously, the choice of which to display is undefined.

2.2.4 wait

```
doapi-action wait [--wait-time <seconds>] [--wait-interval <seconds>] [<action> ...]
```

Wait for the given actions to either complete or error out. The finished actions are output as a list of Action objects converted to JSON, with each action output (roughly) as soon as it finishes. If no actions are specified, wait will wait for all currently in-progress actions to complete.

Options

--wait-interval <seconds>

How often to poll the server for the actions' current statuses; default value: 5 seconds

--wait-time <seconds>

The maximum number of seconds to wait for all actions to complete. After this much time has passed since program invocation, any remaining in-progress actions will be output immediately without waiting for them to finish.

If this option is not specified, wait will wait indefinitely.

2.2.5 resource

```
doapi-action resource <action> ...
doapi-action resource {--in-progress | --last}
```

Show the resources that the specified actions operated on. The resources are output as a list of <code>Droplet</code>, <code>Image</code>, and/or <code>FloatingIP</code> objects converted to JSON. Resources that no longer exist are output as null.

Options

--in-progress

Show only the resources currently being acted upon

--last

Show only the resource operated on by the account's most recent action. If multiple actions were triggered simultaneously, the choice of which to display is undefined.

2.3 doapi-domain

2.3.1 NAME

doapi-domain — manage DigitalOcean domains & domain records

2.3.2 SYNOPSIS

doapi-domain also takes the *universal options* common to all doapi commands.

Domains are specified as the base domain name without any subdomains (e.g., example.com, never www.example.com). Records of a given domain are specified by ID number.

2.3.3 new

```
doapi-domain new <domain> <ip address>
```

Set up a domain name <domain> pointing to <ip address>. The new domain is output as a Domain object converted to JSON.

Note that this command does not actually register a new domain name; it merely configures DigitalOcean's name-servers to provide DNS resolution for the domain. See How To Set Up a Host Name with DigitalOcean for more information.

2.3.4 show

```
doapi-domain show [<domain> ...]
```

Show domains. If no domains are specified, all domains registered to the account are shown. The domains are output as a list of <code>Domain</code> objects converted to JSON.

2.3.5 delete

```
doapi-domain delete <domain> ...
```

Delete domains. There is no output.

2.3.6 new-record

```
doapi-domain new-record [--priority <int>] [--port <int>] [--weight <int>] [--delete] <domain> <type> <name> <data>
```

Add a new domain record with the given type, name, & data to domain <domain>. The new record is output as a DomainRecord object converted to JSON.

Options

--delete

After creating the new record, delete any old records with the same type & name.

```
--port <int>
```

Specify the port on which the service is available (SRV records only)

--priority <int>

Specify the priority for the new record (SRV and MX records only)

--weight <int>

Specify the weight for the new record (SRV records only)

2.3.7 show-record

```
doapi-domain show-record <domain> [<record id> ...]
```

Show records for domain <domain>. If no records are specified, all records for the domain are shown. The records are output as a list of <code>DomainRecord</code> objects converted to JSON.

2.3.8 update-record

Modify one or more fields of a domain record. The updated record is output as a <code>DomainRecord</code> object converted to JSON.

Options

```
--data <data>
     Set the record's data to <data>
--name <name>
     Set the record's name to <name>
--no-port
     Unset the record's port field
--no-priority
     Unset the record's priority field
--no-weight
     Unset the record's weight field
--port <int>
     Set the record's port to <int>
--priority <int>
     Set the record's priority to <int>
--type <type>
     Set the record's type to <type>
--weight <int>
     Set the record's weight to <int>
```

2.3.9 delete-record

```
doapi-domain delete-record <domain> <record id> [<record id> ...]
```

Delete records of the given domain. There is no output.

2.4 doapi-droplet

2.4.1 **NAME**

doapi-droplet — manage DigitalOcean droplets

2.4.2 SYNOPSIS

```
doapi-droplet new
       -I|--image <image>
        -S|--size <size>
        -R|--region <region>
        [-B|--backups]
        [-6|--ipv6]
        [-P|--private-networking]
        [-U|--user-data <string|@file>]
        [-K|--ssh-key < key>] ...
        [--unique]
        [--wait] [--wait-time <seconds>] [--wait-interval <seconds>]
        <name> ...
doapi-droplet show [-M|--multiple] [<droplet> ...]
doapi-droplet enable-backups [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet disable-backups [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet reboot [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet power-cycle [<wait options>] [-M|--multiple] <droplet> ...
\verb|doapi-droplet| shutdown [<wait options>] [-M|--multiple] < droplet> \dots
\verb|doapi-droplet power-off [<wait options>] [-M|--multiple] < droplet> \dots
doapi-droplet power-on [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet password-reset [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet enable-ipv6 [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet enable-private-networking [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet upgrade [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet show-upgrades [--droplets]
doapi-droplet show-snapshots [-M|--multiple] <droplet> ...
doapi-droplet backups [-M|--multiple] <droplet> ...
doapi-droplet kernels [-M|--multiple] <droplet> ...
doapi-droplet delete [-M|--multiple] <droplet> ...
doapi-droplet neighbors
doapi-droplet neighbors [-M|--multiple] <droplet> ...
doapi-droplet restore [<wait options>] <droplet> <backup>
doapi-droplet resize [<wait options>] [--disk] [-M|--multiple] <size> <droplet> ...
doapi-droplet rebuild [<wait options>] [-I|--image <image>] [-M|--multiple] <droplet> ...
doapi-droplet rename [<wait options>] [--unique] <droplet> <new name>
doapi-droplet snapshot [<wait options>] [--unique] <droplet> <name>
doapi-droplet change-kernel [<wait options>] [-M|--multiple] <kernel> <droplet> ...
doapi-droplet act [<wait options>] [-p|--params <JSON|@file>] [-M|--multiple] <type> <droplet> ...
doapi-droplet actions [--last | --in-progress] [-M|--multiple] <droplet> ...
doapi-droplet wait [--wait-time <seconds>] [--wait-interval <seconds>] [-M|--multiple] [-S|--status
```

doapi-droplet also takes the universal options common to all doapi commands.

Droplets can be specified by ID number or name. A name that is also a valid ID is interpreted as such rather than as a name (and so droplets with such names must be referred to by their actual ID instead).

2.4.3 new

```
doapi-droplet new
    -I|--image <image>
    -S|--size <size>
    -R|--region <region>
    [-B|--backups]
    [-6|--ipv6]
    [-P|--private-networking]
    [-U|--user-data <string|@file>]
    [-K|--ssh-key <key>] ...
    [--unique]
    [--wait] [--wait-time <seconds>] [--wait-interval <seconds>]
```

2.4.4 show

```
doapi-droplet show [-M|--multiple] [<droplet> ...]
```

2.4.5 Simple Actions

```
doapi-droplet enable-backups [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet disable-backups [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet reboot [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet power-cycle [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet shutdown [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet power-off [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet power-on [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet password-reset [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet enable-ipv6 [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet enable-private-networking [<wait options>] [-M|--multiple] <droplet> ...
doapi-droplet upgrade [<wait options>] [-M|--multiple] <droplet> ...
```

2.4.6 show-upgrades

```
doapi-droplet show-upgrades [--droplets]
```

--droplets: return the droplets that will be upgraded instead

2.4.7 show-snapshots

```
doapi-droplet show-snapshots [-M|--multiple] <droplet> ...
```

2.4.8 backups

```
doapi-droplet backups [-M|--multiple] <droplet> ...
```

2.4.9 kernels

```
doapi-droplet kernels [-M|--multiple] <droplet> ...
```

2.4.10 neighbors

```
doapi-droplet neighbors doapi-droplet neighbors [-M|--multiple] <droplet> ...
```

2.4.11 restore

```
doapi-droplet restore [<wait options>] <droplet> <backup>
```

2.4.12 resize

```
doapi-droplet resize [<wait options>] [--disk] [-M|--multiple] <size> <droplet> ...
```

2.4.13 rebuild

```
doapi-droplet rebuild [<wait options>] [-I|--image <image>] [-M|--multiple] <droplet> .
```

2.4.14 rename

```
doapi-droplet rename [<wait options>] [--unique] <droplet> <new name>
```

2.4.15 snapshot

```
doapi-droplet snapshot [<wait options>] [--unique] <droplet> <name>
```

2.4.16 change-kernel

```
doapi-droplet change-kernel [<wait options>] [-M|--multiple] <kernel> <droplet> ...
```

2.4.17 act

```
doapi-droplet act [<wait options>] [-p|--params <JSON|@file>] [-M|--multiple] <type> <droplet> ...
```

2.4.18 actions

```
doapi-droplet actions [--last | --in-progress] [-M|--multiple] <droplet> ...
```

2.4.19 wait

```
doapi-droplet wait [--wait-time <seconds>] [--wait-interval <seconds>] [-M|--multiple] [-S|--status
```

2.4.20 delete

```
doapi-droplet delete [-M|--multiple] <droplet> ...
```

2.5 doapi-floating-ip

2.5.1 NAME

doapi-floating-ip — manage DigitalOcean floating IP addresses

2.5.2 SYNOPSIS

```
doapi-floating-ip new [<wait options>] -D|--droplet <droplet>
doapi-floating-ip new [<wait options>] -R|--region <region>

doapi-floating-ip show [<ip> ...]

doapi-floating-ip assign [<wait options>] <ip> <droplet>
doapi-floating-ip unassign [<wait options>] <ip> ...

doapi-floating-ip act [<wait options>] [-p|--params <JSON|@file>] <type> <ip> ...

doapi-floating-ip actions [--in-progress | --last] <ip> ...

doapi-floating-ip wait [--wait-interval <seconds>] [--wait-time <seconds>] <ip> ...

doapi-floating-ip delete <ip> ...
```

doapi-floating-ip also takes the *universal options* common to all doapi commands.

Floating IPs can be specified in either dotted-quad notation (e.g., 127.0.0.1) or as 32-bit integers (e.g., 2130706433).

2.5.3 new

```
doapi-floating-ip new [<wait options>] -D|--droplet <droplet> doapi-floating-ip new [<wait options>] -R|--region <region>
```

Create a new floating IP assigned to a droplet or reserved to a region. The new IP is output as a FloatingIP object converted to JSON.

Options

In addition to the *waiting options*, the **new** subcommand takes the following:

-D <droplet>, --droplet <droplet>
Assign the new floating IP to the specified droplet (identified by ID or name). The floating IP will also be reserved to the droplet's region.

-R <region>, --region <region>

Reserve the floating IP to the specified region (identified by slug).

2.5.4 show

```
doapi-floating-ip show [<ip> ...]
```

Show floating IPs. If no IPs are specified, all IPs allocated to the account are shown. The IPs are output as a list of Floating IP objects converted to JSON.

2.5.5 assign

```
doapi-floating-ip assign [<wait options>] <ip> <droplet>
```

Assign the given floating IP to a given droplet (identified by ID or name). The Action object thus produced is output as JSON.

The assign subcommand only takes the waiting options.

2.5.6 unassign

```
doapi-floating-ip unassign [<wait options>] <ip>...
```

Unassign the given floating IP(s) from their droplet(s). The Action objects thus produced are output as a JSON list.

The **unassign** subcommand only takes the *waiting options*.

2.5.7 act

```
doapi-floating-ip act [<wait options>] [-p|--params <JSON|@file>] <type> <ip> ...
```

Perform an arbitrary action of type <type> (assign, unassign, or something otherwise not implemented here) on one or more floating IPs. The Action objects thus produced are output as a JSON list.

Options

In addition to the *waiting options*, the **act** subcommand takes the following:

```
-p <data>, --params <data>
```

A JSON object/dictionary of parameters to the action. If <data> begins with "@", the rest of the argument (if there is any) is treated as a file from which to read the JSON; a filename of – causes data to be read from standard input.

2.5.8 actions

```
doapi-floating-ip actions [--in-progress | --last] <ip>...
```

List all of the actions that have ever been performed on the given floating IP(s). The results are output as a JSON list containing a sublist of Action objects for each IP specified on the command line, in order.

Options

--in-progress

Show only the currently in-progress action on each floating IP instead of a list of all actions. If there is currently no in-progress action on an IP, show null.

--last

Show only the most recent action on each floating IP instead of a list of all actions. If multiple actions on a single IP were triggered simultaneously, the choice of which to return is undefined.

2.5.9 wait

```
doapi-floating-ip wait [--wait-interval <seconds>] [--wait-time <seconds>] <ip>...
```

Wait for the currently in-progress actions on the given floating IP(s) to either complete or error out. The finished actions are output as a list of Action objects converted to JSON, with each action output (roughly) as soon as it finishes. If there are no actions currently in progress on a given floating IP, nothing will be output for it.

Options

--wait-interval <seconds>

How often to poll the server for the actions' current statuses; default value: 5 seconds

```
--wait-time <seconds>
```

The maximum number of seconds to wait for all actions to complete. After this much time has passed since program invocation, any remaining in-progress actions will be output immediately without waiting for them to finish.

If this option is not specified, wait will wait indefinitely.

2.5.10 delete

```
doapi-floating-ip delete <ip> ...
```

Delete floating IPs. There is no output.

2.6 doapi-image

2.6.1 NAME

doapi-image — manage DigitalOcean droplet images

2.6.2 SYNOPSIS

```
doapi-image show [-M|--multiple] [<image> ...]
doapi-image show {--application|--distribution|--type=<type>|--private}

doapi-image update [--unique] <image> <new name>

doapi-image convert [<wait options>] [-M|--multiple] <image> ...
```

2.6. doapi-image 43

```
doapi-image transfer [<wait options>] [-M|--multiple] <region> <image> ...

doapi-image act [<wait options>] [-p|--params <JSON|@file>] [-M|--multiple] <type> <image> ...

doapi-image actions [--in-progress | --last] [-M|--multiple] <image> ...

doapi-image wait [--wait-time <seconds>] [--wait-interval <seconds>] [-M|--multiple] <image> ...

doapi-image delete [-M|--multiple] <image> ...
```

doapi-image also takes the universal options common to all doapi commands.

Images can be specified by ID number, slug (if any), or name. A name that is also a valid ID or slug is interpreted as such rather than as a name (and so images with such names must be referred to by their ID instead).

2.6.3 show

```
doapi-image show [-M|--multiple] [<image> ...]
doapi-image show {--application|--distribution|--type=<type>|--private}
```

Show images. If no images or flags are specified, all images available to the account are shown. The images are output as a list of *Image* objects converted to JSON.

Options

--application

Only show application images

--distribution

Only show distribution images

-M, --multiple

If an argument is the name of more than one image, show all images with that name instead of erroring.

--private

Only show the user's private images

```
--type=<type>
```

Only show images of type <type> (application, distribution, or something not otherwise implemented here)

2.6.4 update

```
doapi-image update [--unique] <image> <new name>
```

Update (i.e., rename) an image. The updated image is output as an Image object converted to JSON.

Options

--unique

If <new name> is already in use by another image, fail with an error. Without this option, a warning will still be generated if <new name> is already in use.

2.6.5 convert

```
doapi-image convert [<wait options>] [-M|--multiple] <image> ...
```

Convert one or more images to snapshots. The Action objects thus produced are output as a JSON list.

Options

In addition to the *waiting options*, the **convert** subcommand takes the following:

-M, --multiple

If an argument is the name of more than one image, operate on all images with that name instead of erroring.

2.6.6 transfer

```
doapi-image transfer [<wait options>] [-M|--multiple] <region> <image> ...
```

Transfer one or more images to another region (identified by its slug). The Action objects thus produced are output as a JSON list.

Options

In addition to the *waiting options*, the **transfer** subcommand takes the following:

-M, --multiple

If an argument is the name of more than one image, operate on all images with that name instead of erroring.

2.6.7 act

```
doapi-image act [<wait options>] [-p|--params <JSON|@file>] [-M|--multiple] <type> <image> ...
```

Perform an arbitrary action of type <type> (convert, transfer, or something otherwise not implemented here) on one or more images. The Action objects thus produced are output as a JSON list.

Options

In addition to the waiting options, the act subcommand takes the following:

-M, --multiple

If <image> is the name of more than one image, act on all images with that name instead of erroring.

```
-p <data>, --params <data>
```

A JSON object/dictionary of parameters to the action. If <data> begins with "@", the rest of the argument (if there is any) is treated as a file from which to read the JSON; a filename of – causes data to be read from standard input.

2.6.8 actions

```
doapi-image actions [--in-progress | --last] <image> ...
```

List all of the actions that have ever been performed on the given image(s). The results are output as a JSON list containing a sublist of Action objects for each image specified on the command line, in order.

2.6. doapi-image 45

Options

--in-progress

Show only the currently in-progress action on each image instead of a list of all actions. If there is currently no in-progress action on an image, show null.

--last

Show only the most recent action on each image instead of a list of all actions. If multiple actions on a single image were triggered simultaneously, the choice of which to return is undefined.

2.6.9 wait

```
doapi-image wait [--wait-interval <seconds>] [--wait-time <seconds>] <image> ...
```

Wait for the currently in-progress actions on the given image(s) to either complete or error out. The finished actions are output as a list of Action objects converted to JSON, with each action output (roughly) as soon as it finishes. If there are no actions currently in progress on a given image, nothing will be output for it.

Options

--wait-interval <seconds>

How often to poll the server for the actions' current statuses; default value: 5 seconds

--wait-time <seconds>

The maximum number of seconds to wait for all actions to complete. After this much time has passed since program invocation, any remaining in-progress actions will be output immediately without waiting for them to finish.

If this option is not specified, wait will wait indefinitely.

2.6.10 delete

```
doapi-image delete [-M|--multiple] <image> ...
```

Delete images. There is no output.

Options

-M, --multiple

If an argument is the name of more than one image, delete all images with that name instead of erroring.

2.7 doapi-region

2.7.1 **NAME**

doapi-region — list available DigitalOcean droplet regions

2.7.2 SYNOPSIS

```
doapi-region [<universal options>]
```

2.7.3 DESCRIPTION

doapi-region lists all of the droplet regions available to your DigitalOcean account. The regions are output as a list of *Region* objects converted to JSON.

2.7.4 OPTIONS

doapi-region only takes the *universal options* common to all doapi commands.

2.8 doapi-request

2.8.1 **NAME**

doapi-request — perform a raw DigitalOcean API request

2.8.2 SYNOPSIS

```
doapi-request [<universal options>]
        [-d|--data <string|@file>]
        [-D|--dump-header <file>]
        [--paginate <key>]
        [-X|--request <method>]
        <URL>|<path>
```

2.8.3 DESCRIPTION

doapi-request makes a request to a DigitalOcean API endpoint and outputs the text of the response (if any) as nicely-formatted JSON. It's like a DigitalOcean-centric *curl(1)* that doesn't make you type out your API token every time, with an option for handling pagination.

A request can be made either to an absolute URL or to a path like /v2/account that will be appended to the API endpoint in use.

2.8.4 OPTIONS

In addition to the *universal options* common to all **doapi** commands, **doapi-request** takes the following:

```
-d <data>, --data <data>
```

Send the given data (which must be valid JSON) in the body of the request. If <data> begins with "@", the rest of the argument (if there is any) is treated as a file from which to read the data; a filename of – causes data to be read from standard input.

```
--data and --paginate are mutually exclusive.
```

-D <file>, --dump-header <file>

Dump the headers of the HTTP response as a JSON object to the given file. If --paginate is also used, only the headers for the last response will be dumped. <file> may be - to write the headers to standard output.

--paginate <key>

(GET method only) Assume that the API will respond with a paginated list of one or more values, i.e., an object containing a field <key> mapped to a list of values and a field "links" containing a URL for retrieving the next set of values in the result list, if any. Instead of performing a single request and outputting the response body, doapi-requests will perform multiple requests to retrieve all of the pages and will output a concatenated list of all of the values in the <key> field of each page.

--data and --paginate are mutually exclusive.

-X <method>, --request <method>

Specifies the HTTP method to use for the request. Valid options are GET (the default), POST, PUT, and DELETE (case insensitive).

2.9 doapi-size

2.9.1 NAME

doapi-size — list available DigitalOcean droplet sizes

2.9.2 SYNOPSIS

```
doapi-size [<universal options>]
```

2.9.3 DESCRIPTION

doapi-size lists all of the droplet sizes available to your DigitalOcean account. The sizes are output as a list of Size objects converted to JSON.

2.9.4 OPTIONS

doapi-size only takes the *universal options* common to all doapi commands.

2.10 doapi-ssh-key

2.10.1 NAME

doapi-ssh-key — manage SSH public keys on DigitalOcean

2.10.2 SYNOPSIS

```
doapi-ssh-key new [--unique] <name> [<file>]
doapi-ssh-key show [-M|--multiple] [<ssh key> ...]
doapi-ssh-key update [--unique] <ssh key> <new name>
doapi-ssh-key delete [-M|--multiple] <ssh key> ...
```

doapi-ssh-key also takes the *universal options* common to all doapi commands.

SSH keys can be specified by ID number, fingerprint, or name. A name that is also a valid ID or fingerprint is interpreted as such rather than as a name (and so SSH keys with such names must be referred to by their ID or fingerprint instead).

2.10.3 new

```
doapi-ssh-key new [--unique] <name> [<file>]
```

Register the contents of <file> (or standard input if no file is specified) as a new SSH public key with name <name>. The new key is output as an SSHKey object converted to JSON.

Options

--unique

If <name> is already in use by another key, fail with an error. Without this option, a warning will still be generated if <name> is already in use.

2.10.4 show

```
doapi-ssh-key show [-M|--multiple] [<ssh key> ...]
```

Show SSH keys. If no keys are specified, all keys registered to the account are shown. The keys are output as a list of SSHKey objects converted to JSON.

Options

-M, --multiple

If an argument is the name of more than one key, show all keys with that name instead of erroring.

2.10.5 update

```
doapi-ssh-key update [--unique] <ssh key> <new name>
```

Update (i.e., rename) an SSH key. The updated key is output as an SSHKey object converted to JSON.

Options

--unique

If <new name> is already in use by another key, fail with an error. Without this option, a warning will still be generated if <new name> is already in use.

2.10.6 delete

```
doapi-ssh-key delete [-M|--multiple] <ssh key> ...
```

Delete SSH keys. There is no output.

Options

-M, --multiple

If an argument is the name of more than one key, delete all keys with that name instead of erroring.

Todo

Document the plain doapi command

2.11 Common CLI Behavior

2.11.1 API Authentication

In order to perform API requests, an OAuth token must be supplied to **doapi** so that it can authenticate with the DigitalOcean server. You can generate an OAuth token for your account via the "Apps & API" section of your DigitalOcean account's control panel.

The doapi commands will look for an OAuth token in the following locations, in order:

- 1. Specified on the command line with --api-token token or --api-token-file file
- 2. The value of the DO_API_TOKEN environment variable
- 3. The contents of a .doapi file in your home directory

2.11.2 Handling Non-Uniqueness of Identifiers

Most resources in the API are referred to by only a single identifier each, but droplets, images, and SSH keys can be referred to by either a unique ID number, a unique slug (for certain images), a unique fingerprint (for SSH keys), or a (potentially) *non*-unique name.

When the user specifies an object identifier that could be an ID, slug, fingerprint, or name, the order of resolution is as follows:

- 1. If the identifier is an integer and there is an object of the relevant type with that integer as its ID number, **doapi** uses that object.
- 2. For images, if there is an image whose slug equals the identifier, **doapi** uses that image.
- 3. For SSH keys, if the identifier is in the form of an SSH public key fingerprint (16 colon-separated two-digit hexadecimal integers) and there is an SSH key with that fingerprint registered with the user's DigitalOcean account, doapi uses that SSH key.
- 4. Otherwise, the identifier is assumed to be a name, and if there exists exactly one object of the relevant type with that name, **doapi** uses that object. If the name is shared by multiple objects, by default **doapi** will exit without taking any action, displaying an error message that includes the ID numbers of all of the objects with that name. For subcommands that operate on lists of objects, this behavior can be changed by passing the <code>--multiple</code> option to the subcommand, causing any names that refer to more than one object to be interpreted as a list of all of those objects in unspecified order.

In all cases, if the same object is specified more than once on the command line, all occurrences after the first are ignored with a warning.

2.11.3 Universal Options

All commands take the following options in addition to those listed in their individual documentation:

--api-token <token>

Use <token> as an OAuth token for authentication with the API; mutually exclusive with --api-token-file

--api-token-file <file>

Use the contents of <file> as an OAuth token for authentication with the API; mutually exclusive with --api-token

--endpoint <URL>

Use <URL> as the base URL for all API requests; default value: https://api.digitalocean.com(the official DigitalOcean API endpoint)

--help

Show command usage and exit

--timeout <seconds>

The maximum number of seconds to wait when attempting to connect to or read from the remote endpoint; default value: no timeout

--version

Show doapi version and exit

Note that these options (other than --help) cannot be attached to subcommands:

```
doapi-droplet --timeout 1000 show # Good
doapi --timeout 1000 droplet show # Good
doapi-droplet show --timeout 1000 # Bad!
```

2.11.4 Waiting Options

By default, all subcommands that perform non-atomic actions return immediately after initiating the action, without waiting for it to complete. They can be made to instead wait until completion with the --wait option, which can be configured further with --wait-interval and --wait-time, as described below:

--wait

Periodically poll the server for the current status of all actions until they all complete or error out or until the time limit specified by --wait-time is exceeded. If this action is not specified, the subcommand will exit immediately after initiating the actions.

--wait-interval <seconds>

How often to poll the server for the actions' current statuses; default value: 5 seconds

--wait-time <seconds>

The maximum number of seconds to wait for all actions to complete. After this much time has passed since program invocation, any remaining in-progress actions will be output immediately without waiting for them to finish.

If --wait is specified but this option is not, the subcommand will wait indefinitely.

CHAPTER 3

Indices and tables

- genindex
- modindex
- search

	Bibliograph
APIDocs] https://developers.digitalocean.com/documentation/v2/	
in Boes] https://developers.digitalocean.com/documentation/v2/	

56 Bibliography

Python Module Index

d

doapi,30

58 Python Module Index

Symbols	-paginate <key></key>
-api-token <token></token>	doapi-request command line option, 48
command line option, 51	-port <int></int>
-api-token-file <file></file>	doapi-domain-new-record command line option, 36
command line option, 51	doapi-domain-update-record command line option,
-application	37
doapi-image-show command line option, 44	-priority <int></int>
-data <data></data>	doapi-domain-new-record command line option, 36
doapi-domain-update-record command line option, 37	doapi-domain-update-record command line option, 37
-delete	-private
doapi-domain-new-record command line option, 36	doapi-image-show command line option, 44
-distribution	-rate-limit
doapi-image-show command line option, 44	doapi-account command line option, 33
endpoint <url></url>	-timeout <seconds></seconds>
command line option, 51	command line option, 51
-help	-type <type></type>
command line option, 51	doapi-domain-update-record command line option,
-in-progress	37
doapi-action-resource command line option, 35	-type= <type></type>
doapi-action-show command line option, 34	doapi-image-show command line option, 44
doapi-floating-ip-actions command line option, 43	-unique
doapi-image-actions command line option, 46	doapi-image-update command line option, 44
-last	doapi-ssh-key-new command line option, 49
doapi-action-resource command line option, 35	doapi-ssh-key-update command line option, 49
doapi-action-show command line option, 34	-version
doapi-floating-ip-actions command line option, 43	command line option, 51
doapi-image-actions command line option, 46	-wait
-name < name>	command line option, 51
doapi-domain-update-record command line option,	-wait-interval <seconds></seconds>
37	command line option, 51
-no-port	doapi-action-wait command line option, 34
doapi-domain-update-record command line option,	doapi-floating-ip-wait command line option, 43
37	doapi-image-wait command line option, 46
-no-priority	-wait-time <seconds></seconds>
doapi-domain-update-record command line option,	command line option, 51
37	doapi-action-wait command line option, 34
-no-weight	doapi-floating-ip-wait command line option, 43
doapi-domain-update-record command line option,	doapi-image-wait command line option, 46
37	-weight <int></int>
	doapi-domain-new-record command line option, 36

doapi-domain-update-record command line option,	C
37	change_kernel() (doapi.Droplet method), 15
-D <droplet>, -droplet <droplet></droplet></droplet>	close() (doapi.doapi method), 4
doapi-floating-ip-new command line option, 41	command line option
-D <file>, -dump-header <file></file></file>	-api-token <token>, 51</token>
doapi-request command line option, 47	-api-token-file <file>, 51</file>
-M, –multiple	-endpoint <url>, 51</url>
doapi-image-act command line option, 45	-help, 51
doapi-image-convert command line option, 45	-timeout <seconds>, 51</seconds>
doapi-image-delete command line option, 46	-version, 51
doapi-image-show command line option, 44	-wait, 51
doapi-image-transfer command line option, 45	-wait-interval <seconds>, 51</seconds>
doapi-ssh-key-delete command line option, 50	-wait-time <seconds>, 51</seconds>
doapi-ssh-key-show command line option, 49	completed (doapi. Action attribute), 28
-R <region>, -region <region></region></region>	convert() (doapi.Image method), 26
doapi-floating-ip-new command line option, 42	create_domain() (doapi.doapi method), 10
-X <method>, -request <method></method></method>	create_droplet() (doapi.doapi method), 5
doapi-request command line option, 48	create_floating_ip() (doapi.doapi method), 10
-d <data>, -data <data></data></data>	create_multiple_droplets() (doapi.doapi method), 6
doapi-request command line option, 47	create_record() (doapi.Domain method), 20
-p <data>, -params <data></data></data>	create_ssh_key() (doapi.doapi method), 8
doapi-floating-ip-act command line option, 42	
doapi-image-act command line option, 45	D
int() (doapi.Action method), 28	default() (doapi.DOEncoder method), 31
int() (doapi.DomainRecord method), 21	DEFAULT_ENDPOINT (doapi.doapi attribute), 3
int() (doapi.Droplet method), 12	delete() (doapi.Domain method), 20
int() (doapi.Image method), 25	delete() (doapi.DomainRecord method), 21
int() (doapi.Kernel method), 18	delete() (doapi.Droplet method), 16
int() (doapi.SSHKey method), 26	delete() (doapi.FloatingIP method), 23
str() (doapi.Domain method), 19	delete() (doapi.Image method), 25
str() (doapi.FloatingIP method), 23	delete() (doapi.SSHKey method), 27
str() (doapi.Image method), 25	disable_backups() (doapi.Droplet method), 13
str() (doapi.NetworkInterface method), 19	DO_API_TOKEN, 50
str() (doapi.Region method), 29	doapi (class in doapi), 3
str() (doapi.SSHKey method), 26	doapi (module), 1, 3, 11, 19, 22, 23, 26, 27, 30, 32, 33,
str() (doapi.Size method), 30	35, 37, 41, 43, 46–48
Λ	doapi-account command line option
A	-rate-limit, 33
Account (class in doapi), 27	doapi-action-resource command line option
act() (doapi.Droplet method), 12	-in-progress, 35
act() (doapi.FloatingIP method), 22	-last, 35
act() (doapi.Image method), 24	doapi-action-show command line option
Action (class in doapi), 28	-in-progress, 34
action_url (doapi.Droplet attribute), 11	-last, 34
action_url (doapi.FloatingIP attribute), 22	doapi-action-wait command line option
action_url (doapi.Image attribute), 24	-wait-interval <seconds>, 34</seconds>
active (doapi.Droplet attribute), 12	-wait-time <seconds>, 34</seconds>
api_token (doapi.doapi attribute), 3	doapi-domain-new-record command line option
archive (doapi.Droplet attribute), 12	-delete, 36
assign() (doapi.FloatingIP method), 23	-port <int>, 36</int>
	-priority <int>, 36</int>
В	-weight <int>, 36</int>
BackupWindow (class in doapi), 17	doapi-domain-update-record command line option
-	-data <data>, 37</data>

-name <name>, 37</name>	–unique, 49
-no-port, 37	DOAPIError, 30
–no-priority, 37	DOEncoder (class in doapi), 31
-no-weight, 37	Domain (class in doapi), 19
-port <int>, 37</int>	domain (doapi.DomainRecord attribute), 21
-priority <int>, 37</int>	DomainRecord (class in doapi), 21
-type <type>, 37</type>	done (doapi. Action attribute), 28
-weight <int>, 37</int>	Droplet (class in doapi), 11
doapi-floating-ip-act command line option	droplet (doapi.BackupWindow attribute), 17
-p <data>, -params <data>, 42</data></data>	droplet (doapi.Image attribute), 24
doapi-floating-ip-actions command line option	droplet (doapi.Kernel attribute), 18
-in-progress, 43	droplet (doapi.NetworkInterface attribute), 19
-last, 43	droplet (doapi.Networks attribute), 18
doapi-floating-ip-new command line option	DropletUpgrade (class in doapi), 17
-D <droplet>, -droplet <droplet>, 41</droplet></droplet>	2 represepgrade (class in doupt), 17
-R <region>, -region <region>, 42</region></region>	E
doapi-floating-ip-wait command line option	
-wait-interval <seconds>, 43</seconds>	enable_backups() (doapi.Droplet method), 13
-wait-time <seconds>, 43</seconds>	enable_ipv6() (doapi.Droplet method), 16
doapi-image-act command line option	enable_private_networking() (doapi.Droplet method), 16
-M, –multiple, 45	endpoint (doapi.doapi attribute), 3
-p <data>, -params <data>, 45</data></data>	environment variable
doapi-image-actions command line option	DO_API_TOKEN, 50
· ·	errored (doapi.Action attribute), 28
-in-progress, 46 -last, 46	F
doapi-image-convert command line option	fetch() (doapi.Account method), 27
-M, -multiple, 45	fetch() (doapi.Action method), 29
doapi-image-delete command line option	fetch() (doapi.Domain method), 20
-M, –multiple, 46	fetch() (doapi.DomainRecord method), 21
doapi-image-show command line option	fetch() (doapi.Droplet method), 13
-application, 44	fetch() (doapi.FloatingIP method), 23
-distribution, 44	fetch() (doapi.Image method), 25
–private, 44	fetch() (doapi.SSHKey method), 26
-type= <type>, 44</type>	fetch_account() (doapi.doapi method), 9
-M, –multiple, 44	fetch_action() (doapi.doapi method), 7
doapi-image-transfer command line option	fetch_all_actions() (doapi.doapi method), 7
-M, –multiple, 45	fetch_all_actions() (doapi.Droplet method), 12
doapi-image-update command line option	fetch_all_actions() (doapi.FloatingIP method), 22
–unique, 44	fetch_all_actions() (doapi.Image method), 25
doapi-image-wait command line option	fetch_all_application_images() (doapi.doapi method), 9
-wait-interval <seconds>, 46</seconds>	fetch_all_backups() (doapi.Droplet method), 13
-wait-time <seconds>, 46</seconds>	fetch_all_distribution_images() (doapi.doapi method), 9
doapi-request command line option	fetch_all_domains() (doapi.doapi method), 9
-paginate <key>, 48</key>	fetch_all_droplet_neighbors() (doapi.doapi method), 6
-D <file>, -dump-header <file>, 47</file></file>	fetch_all_droplet_upgrades() (doapi.doapi method), 5
-X <method>, -request <method>, 48</method></method>	fetch_all_droplets() (doapi.doapi method), 5
-d <data>, -data <data>, 47</data></data>	fetch_all_floating_ips() (doapi.doapi method), 10
doapi-ssh-key-delete command line option	fetch_all_images() (doapi.doapi method), 8
-M, –multiple, 50	fetch_all_kernels() (doapi.Droplet method), 13
doapi-ssh-key-new command line option	fetch_all_neighbors() (doapi.Droplet method), 13
–unique, 49	fetch_all_private_images() (doapi.doapi method), 9
doapi-ssh-key-show command line option	fetch_all_records() (doapi.Domain method), 20
-M, –multiple, 49	fetch_all_regions() (doapi.doapi method), 9
doapi-ssh-key-update command line option	fetch all sizes() (doani doani method) 0

fetch_all_snapshots() (doapi.Droplet method), 13 fetch_all_ssh_keys() (doapi.doapi method), 8 fetch_current_action() (doapi.Droplet method), 12 fetch_current_action() (doapi.FloatingIP method), 23 fetch_current_action() (doapi.Image method), 25 fetch_domain() (doapi.doapi method), 9 fetch_domain() (doapi.DomainRecord method), 21 fetch_droplet() (doapi.BackupWindow method), 17 fetch_droplet() (doapi.doapi method), 5 fetch_droplet() (doapi.DropletUpgrade method), 17 fetch_droplet() (doapi.Image method), 25 fetch_droplet() (doapi.Kernel method), 18 fetch_droplet() (doapi.NetworkInterface method), 19 fetch_droplet() (doapi.Networks method), 18 fetch_floating_ip() (doapi.doapi method), 10 fetch_image() (doapi.doapi method), 8 fetch_last_action() (doapi.doapi method), 7 fetch_last_action() (doapi.Droplet method), 12 fetch_last_action() (doapi.FloatingIP method), 25 fetch_record() (doapi.Domain method), 25 fetch_record() (doapi.Domain method), 25	password_reset() (doapi.Droplet method), 15 per_page (doapi.doapi attribute), 3 power_cycle() (doapi.Droplet method), 14 power_off() (doapi.Droplet method), 14 power_on() (doapi.Droplet method), 14 R reboot() (doapi.Droplet method), 13 rebuild() (doapi.Droplet method), 15 record_url (doapi.Domain attribute), 20 Region (class in doapi), 29 region_slug (doapi.Droplet attribute), 12 rename() (doapi.Droplet method), 15 request() (doapi.doapi method), 4 resize() (doapi.Droplet method), 15 response (doapi.DoAPIError attribute), 30 restore() (doapi.Droplet method), 14 S session (doapi.doapi attribute), 4 shutdown() (doapi.Droplet method), 14 Size (class in doapi), 30
fetch_resource() (doapi.Action method), 29 fetch_ssh_key() (doapi.doapi method), 8	snapshot() (doapi.Droplet method), 16 SSHKey (class in doapi), 26
FloatingIP (class in doapi), 22	STATUS_ACTIVE (doapi.Account attribute), 27
Н	STATUS_ACTIVE (doapi.Droplet attribute), 12 STATUS_ARCHIVE (doapi.Droplet attribute), 12
http_error_msg (doapi.DOAPIError attribute), 30 Image (class in doapi), 23 image_slug (doapi.Droplet attribute), 12 in_progress (doapi.Action attribute), 28 ip_address (doapi.Droplet attribute), 13 ip_version (doapi.NetworkInterface attribute), 19	STATUS_COMPLETED (doapi.Action attribute), 28 STATUS_ERRORED (doapi.Action attribute), 28 STATUS_IN_PROGRESS (doapi.Action attribute), 28 STATUS_LOCKED (doapi.Account attribute), 27 STATUS_NEW (doapi.Droplet attribute), 12 STATUS_OFF (doapi.Droplet attribute), 12 STATUS_WARNING (doapi.Account attribute), 27
K	Т
Kernel (class in doapi), 18	timeout (doapi.doapi attribute), 3 transfer() (doapi.Image method), 25
L	U
last_meta (doapi.doapi attribute), 4 last_rate_limit (doapi.doapi attribute), 4 last_response (doapi.doapi attribute), 4	unassign() (doapi.FloatingIP method), 23 update_image() (doapi.Image method), 25 update_record() (doapi.DomainRecord method), 21
N	update_ssh_key() (doapi.SSHKey method), 26
NetworkInterface (class in doapi), 19 Networks (class in doapi), 18 new (doapi.Droplet attribute), 12	upgrade() (doapi.Droplet method), 16 url (doapi.Account attribute), 27 url (doapi.Action attribute), 28 url (doapi.Domain attribute), 19
O	url (doapi.DomainRecord attribute), 21 url (doapi.Droplet attribute), 13
off (doapi.Droplet attribute), 12	url (doapi.FloatingIP attribute), 23
P	url (doapi.Image attribute), 25 url (doapi.SSHKey attribute), 26
paginate() (doapi.doapi method), 4	uii (doapi.33111xcy autiouic), 20

W

wait() (doapi.Action method), 29 wait() (doapi.Droplet method), 16 wait() (doapi.FloatingIP method), 22 wait() (doapi.Image method), 24 wait_actions() (doapi.doapi method), 7 wait_droplets() (doapi.doapi method), 7 wait_interval (doapi.doapi attribute), 3 wait_time (doapi.doapi attribute), 3