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# **aiodocker Documentation**

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# CONTENTS

|          |                                  |           |
|----------|----------------------------------|-----------|
| <b>1</b> | <b>Installation</b>              | <b>3</b>  |
| <b>2</b> | <b>Examples</b>                  | <b>5</b>  |
| 2.1      | Source code . . . . .            | 6         |
| 2.2      | Communication channels . . . . . | 6         |
| 2.3      | Contribution . . . . .           | 6         |
| 2.4      | Author and License . . . . .     | 6         |
| <b>3</b> | <b>Indices and tables</b>        | <b>21</b> |
|          | <b>Index</b>                     | <b>23</b> |



A simple Docker HTTP API wrapper written with asyncio and aiohttp.



## INSTALLATION

```
pip install aiocoder
```



## EXAMPLES

```
import asyncio
import aiodocker

async def list_things():
    docker = aiodocker.Docker()
    print('== Images ==')
    for image in (await docker.images.list()):
        tags = image['RepoTags'][0] if image['RepoTags'] else ''
        print(image['Id'], tags)
    print('== Containers ==')
    for container in (await docker.containers.list()):
        print(f" {container._id}")
    await docker.close()

async def run_container():
    docker = aiodocker.Docker()
    print('== Running a hello-world container ==')
    container = await docker.containers.create_or_replace(
        config={
            'Cmd': ['/bin/ash', '-c', 'echo "hello world"'],
            'Image': 'alpine:latest',
        },
        name='testing',
    )
    await container.start()
    logs = await container.log(stdout=True)
    print(''.join(logs))
    await container.delete(force=True)
    await docker.close()

if __name__ == '__main__':
    loop = asyncio.get_event_loop()
    loop.run_until_complete(list_things())
    loop.run_until_complete(run_container())
    loop.close()
```

## 2.1 Source code

The project is hosted on GitHub: <https://github.com/aio-lib/aiodocker>

Please feel free to file an issue on the bug tracker if you have found a bug or have some suggestion in order to improve the library.

## 2.2 Communication channels

*aio-lib* google group: <https://groups.google.com/forum/#!forum/aio-lib>

Feel free to post your questions and ideas here.

*Gitter Chat* <https://gitter.im/aio-lib/Lobby>

We support [Stack Overflow](#). Please add *python-asyncio* tag to your question there.

## 2.3 Contribution

Please follow the [Contribution Guide](#).

## 2.4 Author and License

The aiodocker package is written by Andrew Svetlov.

It's *Apache 2* licensed and freely available.

### 2.4.1 Client

#### Reference

#### Docker

```
class aiodocker.docker.Docker(url=None, connector=None, session=None, ssl_context=None,  
                               api_version='auto')
```

```
    coroutine auth(self, **credentials)
```

```
        Return type Dict[str, Any]
```

```
    coroutine close(self)
```

```
        Return type None
```

```
    coroutine version(self)
```

```
        Return type Dict[str, Any]
```

## 2.4.2 Configs

### Create a config

```
import asyncio
import aiodocker

docker = aiodocker.Docker()

async def create_config():
    config = await docker.configs.create(
        name="my_config",
        data="This is my config data"
    )
    await docker.close()
    return config

async def create_service(TaskTemplate):
    service = await docker.services.create(
        task_template=TaskTemplate,
        name="my_service"
    )
    await docker.close()

if __name__ == '__main__':
    loop = asyncio.get_event_loop()
    my_config = loop.run_until_complete(create_config())
    TaskTemplate = {
        "ContainerSpec": {
            "Image": "redis",
            "Configs": [
                {
                    "File": {
                        "Name": my_config["Spec"]["Name"],
                        "UID": "0",
                        "GID": "0",
                        "Mode": 292
                    },
                    "ConfigID": my_config["ID"],
                    "ConfigName": my_config["Spec"]["Name"],
                }
            ],
        },
    }
    loop.run_until_complete(create_service(TaskTemplate))
    loop.close()
```

## Reference

### DockerConfigs

**class** aiodocker.configs.DockerConfigs(*docker*)

**coroutine** **create**(*self, name, data, \*, b64=False, labels=None, templating=None*)

Create a config

**Parameters**

- **name** (*str*) – name of the config
- **labels** (*Optional*[*Mapping*[*str, str*]]) – user-defined key/value metadata
- **data** (*str*) – config data
- **b64** (*bool*) – True if data is already Base64-url-safe-encoded
- **templating** (*Optional*[*Mapping*]) – Driver represents a driver (network, logging, secrets).

**Return type** *Mapping*[*str, Any*]

**Returns** a dict with info of the created config

**coroutine** **delete**(*self, config\_id*)

Remove a config

**Parameters** **config\_id** (*str*) – ID or name of the config

**Return type** *bool*

**Returns** True if successful

**coroutine** **inspect**(*self, config\_id*)

Inspect a config

**Parameters** **config\_id** (*str*) – ID of the config

**Return type** *Mapping*[*str, Any*]

**Returns** a dict with info about a config

**coroutine** **list**(*self, \*, filters=None*)

Return a list of configs

**Parameters** **filters** (*Optional*[*Mapping*]) – a dict with a list of filters

**Available filters:** id=<config id> label=<key> or label=<key>=value name=<config name> names=<config name>

**Return type** *List*[*Mapping*]

**coroutine** **update**(*self, config\_id, version, \*, name=None, data=None, b64=False, labels=None, templating=None*)

Update a config.

**Parameters**

- **config\_id** (*str*) – ID of the config.
- **name** (*Optional*[*str*]) – name of the config

- **labels** (`Optional[Mapping[str, str]]`) – user-defined key/value metadata
- **data** (`Optional[str]`) – config data
- **b64** (`bool`) – True if data is already Base64-url-safe-encoded
- **templating** (`Optional[Mapping]`) – Driver represents a driver (network, logging, secrets).

**Return type** `bool`

**Returns** True if successful.

## 2.4.3 Containers

### Create a container

```
import asyncio
import aiodocker

docker = aiodocker.Docker()

config = {
    "Cmd": ["/bin/ls"],
    "Image": "alpine:latest",
    "AttachStdin": False,
    "AttachStdout": False,
    "AttachStderr": False,
    "Tty": False,
    "OpenStdin": False,
}

async def create_container():
    container = await docker.containers.create(config=config)
    print(container)
    await docker.close()

if __name__ == '__main__':
    loop = asyncio.get_event_loop()
    loop.run_until_complete(create_container())
    loop.close()
```

## Reference

### DockerContainers

**class** `aiodocker.docker.DockerContainers(docker)`

**container** (*container\_id*, *\*\*kwargs*)

**coroutine** `create(config, *, name=None)`

**coroutine** `create_or_replace(name, config)`

**exec**(*exec\_id*)

Return Exec instance for already created exec object.

**Return type** Exec

**coroutine** **get**(*container*, *\*\*kwargs*)

**coroutine** **list**(*\*\*kwargs*)

**coroutine** **run**(*self*, *config*, *\**, *auth=None*, *name=None*)

Create and start a container.

If `container.start()` will raise an error the exception will contain a `container_id` attribute with the id of the container.

Use *auth* for specifying credentials for pulling absent image from a private registry.

## DockerContainer

**class** aiodocker.docker.DockerContainer(*docker*, *\*\*kwargs*)

**attach**(*\**, *stdout=False*, *stderr=False*, *stdin=False*, *detach\_keys=None*, *logs=False*)

**Return type** Stream

**coroutine** **commit**(*self*, *\**, *repository=None*, *tag=None*, *message=None*, *author=None*, *changes=None*, *config=None*, *pause=True*)

Commit a container to an image. Similar to the `docker commit` command.

**Return type** Dict[str, Any]

**coroutine** **delete**(*\*\*kwargs*)

**coroutine** **exec**(*self*, *cmd*, *stdout=True*, *stderr=True*, *stdin=False*, *tty=False*, *privileged=False*, *user=""*, *environment=None*, *workdir=None*, *detach\_keys=None*)

**coroutine** **get\_archive**(*self*, *path*)

**Return type** TarFile

**property** **id**: str

**Return type** str

**coroutine** **kill**(*\*\*kwargs*)

**log**(*\**, *stdout=False*, *stderr=False*, *follow=False*, *\*\*kwargs*)

**coroutine** **pause**(*self*)

**Return type** None

**coroutine** **port**(*private\_port*)

**coroutine** **put\_archive**(*path*, *data*)

**coroutine** **rename**(*newname*)

**coroutine** **resize**(*self*, *\**, *h*, *w*)

**Return type** None

```

coroutine restart(timeout=None)
coroutine show(**kwargs)
coroutine start(**kwargs)
stats(*, stream=True)
coroutine stop(**kwargs)
coroutine unpause(self)

```

Return type `None`

```

coroutine wait(*, timeout=None, **kwargs)
coroutine websocket(**params)

```

## 2.4.4 Images

### Reference

#### DockerImages

```
class aiodocker.images.DockerImages(docker)
```

```

build(*, remote: str = 'None', fileobj: BinaryIO = 'None', path_dockerfile: str = 'None', tag: str = 'None',
      quiet: bool = 'False', nocache: bool = 'False', buildargs: Mapping = 'None', pull: bool = 'False', rm:
      bool = 'True', forcerm: bool = 'False', labels: Mapping = 'None', stream:
      typing_extensions.Literal[False] = 'False', encoding: str = 'None') → Dict[str, Any]

```

```

build(*, remote: str = 'None', fileobj: BinaryIO = 'None', path_dockerfile: str = 'None', tag: str = 'None',
      quiet: bool = 'False', nocache: bool = 'False', buildargs: Mapping = 'None', pull: bool = 'False', rm:
      bool = 'True', forcerm: bool = 'False', labels: Mapping = 'None', stream:
      typing_extensions.Literal[True], encoding: str = 'None') → AsyncIterator[Dict[str, Any]]

```

Build an image given a remote Dockerfile or a file object with a Dockerfile inside

#### Parameters

- **path\_dockerfile** (`Optional[str]`) – path within the build context to the Dockerfile
- **remote** (`Optional[str]`) – a Git repository URI or HTTP/HTTPS context URI
- **quiet** (`bool`) – suppress verbose build output
- **nocache** (`bool`) – do not use the cache when building the image
- **rm** (`bool`) – remove intermediate containers after a successful build
- **pull** (`bool`) – downloads any updates to the FROM image in Dockerfiles
- **encoding** (`Optional[str]`) – set *Content-Encoding* for the file object your send
- **forcerm** (`bool`) – always remove intermediate containers, even upon failure
- **labels** (`Optional[Mapping]`) – arbitrary key/value labels to set on the image
- **fileobj** (`Optional[BinaryIO]`) – a tar archive compressed or not

Return type `Any`

```
coroutine delete(self, name, *, force=False, nopruno=False)
```

Remove an image along with any untagged parent images that were referenced by that image

**Parameters**

- **name** (`str`) – name/id of the image to delete
- **force** (`bool`) – remove the image even if it is being used by stopped containers or has other tags
- **noprune** (`bool`) – don't delete untagged parent images

**Return type** `List`

**Returns** List of deleted images

**export\_image**(*name*)

Get a tarball of an image by name or id.

**Parameters** **name** (`str`) – name/id of the image to be exported

**Returns** Streamreader of tarball image

**coroutine** **get**(*self*, *name*)

**Return type** `Mapping`

**coroutine** **history**(*self*, *name*)

**Return type** `Mapping`

**import\_image**(*data*, *stream=False*)

Import tarball of image to docker.

**Parameters** **data** – tarball data of image to be imported

**Returns** Tarball of the image

**coroutine** **inspect**(*self*, *name*)

Return low-level information about an image

**Parameters** **name** (`str`) – name of the image

**Return type** `Mapping`

**coroutine** **list**(*self*, *\*\*params*)

List of images

**Return type** `Mapping`

**pull**(*from\_image: str*, \*, *auth: Optional[Union[MutableMapping, str, bytes]] = None*, *tag: str = None*, *repo: str = None*, *stream: typing\_extensions.Literal[False] = False*) → `Dict[str, Any]`

**pull**(*from\_image: str*, \*, *auth: Optional[Union[MutableMapping, str, bytes]] = None*, *tag: str = None*, *repo: str = None*, *stream: typing\_extensions.Literal[True]*) → `AsyncIterator[Dict[str, Any]]`

Similar to *docker pull*, pull an image locally

**Parameters**

- **fromImage** – name of the image to pull
- **repo** (`Optional[str]`) – repository name given to an image when it is imported
- **tag** (`Optional[str]`) – if empty when pulling an image all tags for the given image to be pulled
- **auth** (`Union[MutableMapping, str, bytes, None]`) – special { 'auth': base64 } pull private repo

Return type `Any`

`push(name: str, *, auth: Union[MutableMapping, str, bytes] = 'None', tag: str = 'None', stream: typing_extensions.Literal[False] = 'False') → Dict[str, Any]`

`push(name: str, *, auth: Union[MutableMapping, str, bytes] = 'None', tag: str = 'None', stream: typing_extensions.Literal[True]) → AsyncIterator[Dict[str, Any]]`

Return type `Any`

**coroutine** `tag(self, name, repo, *, tag=None)`

Tag the given image so that it becomes part of a repository.

Parameters

- **name** (`str`) – name/id of the image to be tagged
- **repo** (`str`) – the repository to tag in
- **tag** (`Optional[str]`) – the name for the new tag

Return type `bool`

## 2.4.5 Secrets

### Create a secret

```
import asyncio
import aiodocker

docker = aiodocker.Docker()

async def create_secret():
    secret = await docker.secrets.create(
        name="my_secret",
        data="you can not read that terrible secret"
    )
    await docker.close()
    return secret

async def create_service(TaskTemplate):
    service = await docker.services.create(
        task_template=TaskTemplate,
        name="my_service"
    )
    await docker.close()

if __name__ == '__main__':
    loop = asyncio.get_event_loop()
    my_secret = loop.run_until_complete(create_secret())
    TaskTemplate = {
        "ContainerSpec": {
            "Image": "redis",
            "Secrets": [
                {
                    "File": {
```

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```

        "Name": my_secret["Spec"]["Name"],
        "UID": "0",
        "GID": "0",
        "Mode": 292
    },
    "SecretID": my_secret["ID"],
    "SecretName": my_secret["Spec"]["Name"]
}
],
},
}
loop.run_until_complete(create_service(TaskTemplate))
loop.close()

```

## Reference

### DockerSecrets

**class** aiodocker.secrets.**DockerSecrets**(*docker*)

**coroutine** **create**(*self, name, data, \*, b64=False, labels=None, driver=None, templating=None*)

Create a secret

#### Parameters

- **name** (*str*) – name of the secret
- **labels** (*Optional[Mapping[str, str]]*) – user-defined key/value metadata
- **data** (*str*) – data to store as secret
- **b64** (*bool*) – True if data is already Base64-url-safe-encoded
- **driver** (*Optional[Mapping]*) – Driver represents a driver (network, logging, secrets).
- **templating** (*Optional[Mapping]*) – Driver represents a driver (network, logging, secrets).

**Return type** *Mapping[str, Any]*

**Returns** a dict with info of the created secret

**coroutine** **delete**(*self, secret\_id*)

Remove a secret

**Parameters** **secret\_id** (*str*) – ID of the secret

**Return type** *bool*

**Returns** True if successful

**coroutine** **inspect**(*self, secret\_id*)

Inspect a secret

**Parameters** **secret\_id** (*str*) – ID of the secret

**Return type** *Mapping[str, Any]*

**Returns** a dict with info about a secret

**coroutine** `list(self, *, filters=None)`

Return a list of secrets

**Parameters** `filters` (`Optional[Mapping]`) – a dict with a list of filters

**Available filters:** `id=<secret id>` `label=<key>` or `label=<key>=value` `name=<secret name>` `names=<secret name>`

**Return type** `List[Mapping]`

**coroutine** `update(self, secret_id, version, *, name=None, data=None, b64=False, labels=None, driver=None, templating=None)`

Update a secret.

**Parameters**

- **secret\_id** (`str`) – ID of the secret.
- **name** (`Optional[str]`) – name of the secret
- **labels** (`Optional[Mapping[str, str]]`) – user-defined key/value metadata
- **data** (`Optional[str]`) – data to store as secret
- **b64** (`bool`) – True if data is already Base64-url-safe-encoded
- **driver** (`Optional[Mapping]`) – Driver represents a driver (network, logging, secrets).
- **templating** (`Optional[Mapping]`) – Driver represents a driver (network, logging, secrets).

**Return type** `bool`

**Returns** True if successful.

## 2.4.6 Services

### Create a service

```
import asyncio
import aiodocker

docker = aiodocker.Docker()

TaskTemplate = {
    "ContainerSpec": {
        "Image": "redis",
    },
}

async def create_service():
    service = await docker.services.create(
        task_template=TaskTemplate,
        name="my_service"
    )
    await docker.close()
```

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```

if __name__ == '__main__':
    loop = asyncio.get_event_loop()
    loop.run_until_complete(create_service())
    loop.close()

```

## Reference

### DockerServices

**class** aiodocker.services.**DockerServices**(*docker*)

**coroutine** **create**(*self, task\_template, \*, name=None, labels=None, mode=None, update\_config=None, rollback\_config=None, networks=None, endpoint\_spec=None, auth=None, registry=None*)

Create a service

#### Parameters

- **task\_template** (`Mapping[str, Any]`) – user modifiable task configuration
- **name** (`Optional[str]`) – name of the service
- **labels** (`Optional[Mapping[str, str]]`) – user-defined key/value metadata
- **mode** (`Optional[Mapping]`) – scheduling mode for the service
- **update\_config** (`Optional[Mapping]`) – update strategy of the service
- **rollback\_config** (`Optional[Mapping]`) – rollback strategy of the service
- **networks** (`Optional[List]`) – array of network names/IDs to attach the service to
- **endpoint\_spec** (`Optional[Mapping]`) – ports to expose
- **auth** (`Union[MutableMapping, str, bytes, None]`) – authentication information, can be a string, dict or bytes
- **registry** (`Optional[str]`) – used when auth is specified, it provides domain/IP of the registry without a protocol

**Return type** `Mapping[str, Any]`

**Returns** a dict with info of the created service

**coroutine** **delete**(*self, service\_id*)

Remove a service

**Parameters** **service\_id** (`str`) – ID or name of the service

**Return type** `bool`

**Returns** True if successful

**coroutine** **inspect**(*self, service\_id*)

Inspect a service

**Parameters** **service\_id** (`str`) – ID or name of the service

**Return type** `Mapping[str, Any]`

**Returns** a dict with info about a service

**coroutine list**(*self*, \*, *filters=None*)

Return a list of services

**Parameters** **filters** (*Optional*[*Mapping*]) – a dict with a list of filters

**Available filters:** id=<service id> label=<service label> mode=["replicated"] "global"] name=<service name>

**Return type** *List*[*Mapping*]

**logs**(*service\_id*, \*, *details=False*, *follow=False*, *stdout=False*, *stderr=False*, *since=0*, *timestamps=False*, *is\_tty=False*, *tail='all'*)

Retrieve logs of the given service

**Parameters**

- **details** (*bool*) – show service context and extra details provided to logs
- **follow** (*bool*) – return the logs as a stream.
- **stdout** (*bool*) – return logs from stdout
- **stderr** (*bool*) – return logs from stderr
- **since** (*int*) – return logs since this time, as a UNIX timestamp
- **timestamps** (*bool*) – add timestamps to every log line
- **is\_tty** (*bool*) – the service has a pseudo-TTY allocated
- **tail** (*str*) – only return this number of log lines from the end of the logs, specify as an integer or *all* to output all log lines.

**Return type** *Union*[*str*, *AsyncIterator*[*str*]]

**coroutine update**(*self*, *service\_id*, *version*, \*, *image=None*, *rollback=False*)

Update a service. If rollback is True image will be ignored.

**Parameters**

- **service\_id** (*str*) – ID or name of the service.
- **version** (*str*) – Version of the service that you want to update.
- **rollback** (*bool*) – Rollback the service to the previous service spec.

**Return type** *bool*

**Returns** True if successful.

## 2.4.7 Swarm

### Reference

#### DockerSwarm

**class** aiodocker.swarm.**DockerSwarm**(*docker*)

```
coroutine init(self, *, advertise_addr=None, listen_addr='0.0.0.0:2377', force_new_cluster=False,
               swarm_spec=None)
```

Initialize a new swarm.

**Parameters**

- **ListenAddr** – listen address used for inter-manager communication
- **AdvertiseAddr** – address advertised to other nodes.
- **ForceNewCluster** – Force creation of a new swarm.
- **SwarmSpec** – User modifiable swarm configuration.

**Return type** `str`

**Returns** id of the swarm node

```
coroutine inspect(self)
```

Inspect a swarm.

**Return type** `Mapping`

**Returns** Info about the swarm

```
coroutine join(self, *, remote_addrs, listen_addr='0.0.0.0:2377', join_token, advertise_addr=None,
               data_path_addr=None)
```

Join a swarm.

**Parameters**

- **listen\_addr** (`str`) – Used for inter-manager communication
- **advertise\_addr** (`Optional[str]`) – Externally reachable address advertised to other nodes.
- **data\_path\_addr** (`Optional[str]`) – Address or interface to use for data path traffic.
- **remote\_addrs** (`Iterable[str]`) – Addresses of manager nodes already participating in the swarm.
- **join\_token** (`str`) – Secret token for joining this swarm.

**Return type** `bool`

```
coroutine leave(self, *, force=False)
```

Leave a swarm.

**Parameters** **force** (`bool`) – force to leave the swarm even if the node is a master

**Return type** `bool`

## 2.4.8 Volumes

### Reference

#### DockerVolumes

```
class aiodocker.docker.DockerVolumes(docker)
```

```
    coroutine create(config)
```

```
    coroutine get(id)
```

**coroutine list**(*\*, filters=None*)

Return a list of volumes

**Parameters** **filters** – a dict with a list of filters

**Available filters:** dangling=<boolean> driver=<volume-driver-name> label=<key> or label=<key>:<value> name=<volume-name>

## DockerVolume

**class** aiodocker.docker.**DockerVolume**(*docker, name*)

**coroutine delete**()

**coroutine show**()

## 2.4.9 Tasks

### Reference

#### DockerTasks

**class** aiodocker.tasks.**DockerTasks**(*docker*)

**coroutine inspect**(*self, task\_id*)

Return info about a task

**Parameters** **task\_id** (*str*) – is ID of the task

**Return type** *Mapping*[*str*, *Any*]

**coroutine list**(*self, \*, filters=None*)

Return a list of tasks

**Parameters** **filters** (*Optional*[*Mapping*]) – a collection of filters

Available filters: desired-state=(running | shutdown | accepted) id=<task id> label=key or label="key=value" name=<task name> node=<node id or name> service=<service name>

**Return type** *List*[*Mapping*]

## 2.4.10 Log

### Reference

#### DockerLog

**class** aiodocker.docker.**DockerLog**(*docker, container*)

**listen**()

**Return type** *ChannelSubscriber*

```
coroutine run(self, **params)
```

Return type `None`

```
coroutine stop(self)
```

Return type `None`

```
subscribe()
```

Return type `ChannelSubscriber`

## 2.4.11 Events

### Reference

#### DockerEvents

```
class aiodocker.docker.DockerEvents(docker)
```

```
listen()
```

```
coroutine run(**params)
```

Query the events endpoint of the Docker daemon.

Publish messages inside the asyncio queue.

```
coroutine stop()
```

```
subscribe(*, create_task=True, **params)
```

Subscribes to the Docker events channel. Use the keyword argument `create_task=False` to prevent automatically spawning the background tasks that listen to the events.

This function returns a `ChannelSubscriber` object.

## 2.4.12 Exceptions

### Reference

#### DockerError

```
class aiodocker.exceptions.DockerError(status, data, *args)
```

## INDICES AND TABLES

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



## A

`attach()` (*aiodocker.docker.DockerContainer method*), 10  
`auth()` (*aiodocker.docker.Docker method*), 6

## B

`build()` (*aiodocker.images.DockerImages method*), 11

## C

`close()` (*aiodocker.docker.Docker method*), 6  
`commit()` (*aiodocker.docker.DockerContainer method*), 10  
`container()` (*aiodocker.docker.DockerContainers method*), 9  
`create()` (*aiodocker.configs.DockerConfigs method*), 8  
`create()` (*aiodocker.docker.DockerContainers method*), 9  
`create()` (*aiodocker.docker.DockerVolumes method*), 18  
`create()` (*aiodocker.secrets.DockerSecrets method*), 14  
`create()` (*aiodocker.services.DockerServices method*), 16  
`create_or_replace()` (*aiodocker.docker.DockerContainers method*), 9

## D

`delete()` (*aiodocker.configs.DockerConfigs method*), 8  
`delete()` (*aiodocker.docker.DockerContainer method*), 10  
`delete()` (*aiodocker.docker.DockerVolume method*), 19  
`delete()` (*aiodocker.images.DockerImages method*), 11  
`delete()` (*aiodocker.secrets.DockerSecrets method*), 14  
`delete()` (*aiodocker.services.DockerServices method*), 16  
`Docker` (*class in aiodocker.docker*), 6  
`DockerConfigs` (*class in aiodocker.configs*), 8  
`DockerContainer` (*class in aiodocker.docker*), 10  
`DockerContainers` (*class in aiodocker.docker*), 9  
`DockerError` (*class in aiodocker.exceptions*), 20  
`DockerEvents` (*class in aiodocker.docker*), 20  
`DockerImages` (*class in aiodocker.images*), 11  
`DockerLog` (*class in aiodocker.docker*), 19

`DockerSecrets` (*class in aiodocker.secrets*), 14  
`DockerServices` (*class in aiodocker.services*), 16  
`DockerSwarm` (*class in aiodocker.swarm*), 17  
`DockerTasks` (*class in aiodocker.tasks*), 19  
`DockerVolume` (*class in aiodocker.docker*), 19  
`DockerVolumes` (*class in aiodocker.docker*), 18

## E

`exec()` (*aiodocker.docker.DockerContainer method*), 10  
`exec()` (*aiodocker.docker.DockerContainers method*), 9  
`export_image()` (*aiodocker.images.DockerImages method*), 12

## G

`get()` (*aiodocker.docker.DockerContainers method*), 10  
`get()` (*aiodocker.docker.DockerVolumes method*), 18  
`get()` (*aiodocker.images.DockerImages method*), 12  
`get_archive()` (*aiodocker.docker.DockerContainer method*), 10

## H

`history()` (*aiodocker.images.DockerImages method*), 12

## I

`id` (*aiodocker.docker.DockerContainer property*), 10  
`import_image()` (*aiodocker.images.DockerImages method*), 12  
`init()` (*aiodocker.swarm.DockerSwarm method*), 17  
`inspect()` (*aiodocker.configs.DockerConfigs method*), 8  
`inspect()` (*aiodocker.images.DockerImages method*), 12  
`inspect()` (*aiodocker.secrets.DockerSecrets method*), 14  
`inspect()` (*aiodocker.services.DockerServices method*), 16  
`inspect()` (*aiodocker.swarm.DockerSwarm method*), 18  
`inspect()` (*aiodocker.tasks.DockerTasks method*), 19

## J

`join()` (*aiodocker.swarm.DockerSwarm method*), 18

## K

`kill()` (*aiodocker.docker.DockerContainer method*), 10

## L

`leave()` (*aiodocker.swarm.DockerSwarm method*), 18  
`list()` (*aiodocker.configs.DockerConfigs method*), 8  
`list()` (*aiodocker.docker.DockerContainers method*), 10  
`list()` (*aiodocker.docker.DockerVolumes method*), 18  
`list()` (*aiodocker.images.DockerImages method*), 12  
`list()` (*aiodocker.secrets.DockerSecrets method*), 14  
`list()` (*aiodocker.services.DockerServices method*), 17  
`list()` (*aiodocker.tasks.DockerTasks method*), 19  
`listen()` (*aiodocker.docker.DockerEvents method*), 20  
`listen()` (*aiodocker.docker.DockerLog method*), 19  
`log()` (*aiodocker.docker.DockerContainer method*), 10  
`logs()` (*aiodocker.services.DockerServices method*), 17

## P

`pause()` (*aiodocker.docker.DockerContainer method*), 10  
`port()` (*aiodocker.docker.DockerContainer method*), 10  
`pull()` (*aiodocker.images.DockerImages method*), 12  
`push()` (*aiodocker.images.DockerImages method*), 13  
`put_archive()` (*aiodocker.docker.DockerContainer method*), 10

## R

`rename()` (*aiodocker.docker.DockerContainer method*), 10  
`resize()` (*aiodocker.docker.DockerContainer method*), 10  
`restart()` (*aiodocker.docker.DockerContainer method*), 10  
`run()` (*aiodocker.docker.DockerContainers method*), 10  
`run()` (*aiodocker.docker.DockerEvents method*), 20  
`run()` (*aiodocker.docker.DockerLog method*), 19

## S

`show()` (*aiodocker.docker.DockerContainer method*), 11  
`show()` (*aiodocker.docker.DockerVolume method*), 19  
`start()` (*aiodocker.docker.DockerContainer method*), 11  
`stats()` (*aiodocker.docker.DockerContainer method*), 11  
`stop()` (*aiodocker.docker.DockerContainer method*), 11  
`stop()` (*aiodocker.docker.DockerEvents method*), 20  
`stop()` (*aiodocker.docker.DockerLog method*), 20  
`subscribe()` (*aiodocker.docker.DockerEvents method*), 20  
`subscribe()` (*aiodocker.docker.DockerLog method*), 20

## T

`tag()` (*aiodocker.images.DockerImages method*), 13

## U

`unpause()` (*aiodocker.docker.DockerContainer method*), 11  
`update()` (*aiodocker.configs.DockerConfigs method*), 8  
`update()` (*aiodocker.secrets.DockerSecrets method*), 15  
`update()` (*aiodocker.services.DockerServices method*), 17

## V

`version()` (*aiodocker.docker.Docker method*), 6

## W

`wait()` (*aiodocker.docker.DockerContainer method*), 11  
`websocket()` (*aiodocker.docker.DockerContainer method*), 11