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# **Actifio python Client Library Documentation**

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# CHAPTER 1

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## Actifio Class

---

This class instantiate a Actifio appliance object. The implemented methods correspond to regular appliance operations.

**class** `Actifio`.**Actifio**(*appliance*, *username*=”, *password*=”, *token*=”, *cert\_validation*=*False*, *verbose*=*True*)

Actifio instance:

Attributes:

**appliance** IP or FQDN of the appliance

**username** Username to login to the appliance

**password** Password

**cert\_validation** Certificate validation for SSL connections. Defaults to false.

**run\_uds\_command**(*cmdType*, *cmdUDS*, *cmdArgs*={})

Wrapper function to convert CLI commands to the rest API.

Args:

**cmdType** info / task

**cmdUDS** Command to use (eg. lsuser, lshost, mkapplication... etc.)

**cmdArgs** Dictionary with arguments to the command

Returns:

Returns a dictionary of API response.

Example:

```
vmdiscovery -discovercluster -host 1234
```

```
{ 'discovercluster': None, 'host': 1234 }
```

```
lsapplication -filtervalues "appname=mydb&hostname=myhost"
```

```
{ 'filtervalues': { 'appname': 'mydb', 'hostname': 'myhost' } }
```

```
lshost 123
```

```
{ 'argument': 123 }
```

---

**Note:** RESTfulAPI\_\*.pdf would be good reference point for the \_\_SIMILARITY\_\_ and \_\_PATTERN\_\_ of the cmdArgs.

---

### **run\_sarg\_command** (*cmdSARG*, *cmdArgs*={})

Wrapper function to convert CLI commands to the rest API.

Args:

**cmdSARG** Command to use (eg. reportsnaps, reportapps... etc.)

**cmdArgs** Dictionary with arguments to the command

Return:

return a dictionary of the SARG command, mapping to the same JSON response from the API.

Example:

```
reportapps -a 1234 -x
```

```
self.run_sarg_command("reportapps", { 'a': 1234, 'x': None })
```

### **get\_hosts** (\*\*kwargs)

This method query for the hosts registered in Actifio appliance. You can specify a combination of following filter attributes.

Attributes:

**alternateip** Specifies the alternate IP address of the host. Multiple alternate can be specified in a comma-delimited list. To remove the alternate IP address, use an empty field with double quotes.

**description** Description of the host.

**diskpref** Specifies preference (BLOCK or NFS) for presenting the staging disk. Default value is BLOCK.

**friendlypath** Friendly path for the host.

**hasagent** Tells us whether the host has an agent. 0= none, 1= yes <- this is true/false

**hostname** Host name

**hosttype** Host type, for example generic, hmc, hpx, hyperv, isilon, netapp svm, netapp 7 mode, openvms, tpgs, or vcenter.

**isclusterhost** Host is a clustered host.

**ipaddress** IP address of the host.

**isesxhost** Whether the host is an esx server.

**isvcenterhost** Whether the host is a management server, such as a vCenter.

**isvm** Whether the host is a VM.

**originalhostid** Identifies original host id for shadow host.

**osrelease** Operating system release.

**ostype** Operating system type.

**osversion** Operating system version.

**sourcecluster** Identifies the original cluster ID for shadow host

**svcname** Specifies the SVC host name, which limits to 15 characters, first character cannot be a number, and no space, or ‘.’ is allowed.

**uniqueName** Unique name for the host.

**vcenterhostid** The vCenter host ID.

Returns:

Returns the ActHostCollection object with a list of Host entries to satisfy the filter criteria.

**get\_applications (\*\*kwargs)**

This method query for the registered applications within a Actifio appliance. You can specify a combination of following filter attributes.

Attributes:

**appname** Application name

**apptype** Application type

**appversion** Whatever we glean during discovery, and it is not always available.

**auxinfo** For internal use, not likely to be useful.

**description** Description of the application.

**friendlytype** Friendly type for the application

**hostid** Host id.

**hostname** Host name.

**id** Application id.

**ignore** Allows the user to ignore the application (when set), so application will not show up in the UI.

**isclustered** Specifies if the application is part of a cluster.

**networkip** The network IP of the application

**networkname** The network name of the application.

**originalappid** Original application id.

**pathname** The path name of the application

**protectable** None means you cannot protect it, fully means you can, partial means there is limited support.

**sourcecluster** Identifies the original cluster ID for shadow host ( when we create a shadow application or shadow host, this tells us where it originates from).

Returns:

Instance of ActAppCollection object with a collection of all the application matching the filter criteria.

**get\_images (\*\*kwargs)**

Queries Actifio appliance with matching backups images as specified by the filter criteria. if no filter criteria specified will return all the backup images.

Args:

**appid** Application object ID.

**appname** Application name  
**apptype** Application type  
**backupdate** Start date [usage: ‘backupdate since 24 hours’ for backups started since last 24 hours,’backupdate before 7 days’ for backups started older than 7 days]  
**backupname** Image name.  
**characteristic** Charchteristic for of backup type (in addition to jobclass [PRIMARY | MOUNT | UNMOUNT | VDISK | CLONE])  
**consistencydate** consistency date of the backup  
**consistency-mode** Consistency mode of image (for example, application consistent or crash consistent).  
**expiration** Date and time when this should expire. Images with an enforced retention (including remote images) cannot be expired before they reach the immutability date.  
**hostid** Application ID of the host where the backup image ??? <- host ID of the capture job host  
**hostname** Name of the host where the backup image is???? <- host name of the capture job host  
**jobclass** Type of jobs [ snapshot | dedup | dedupasync | clone | liveclone | syncback ]  
**label** label of the backup that user specified.  
**mappedhost** ID of the host to which backup image is mapped.  
**mountedhost** ID of host where backup image is mounted.  
**policyname** Name of the policy on which this object is created.  
**predate** Date when LiveClone image is created.  
**slpname** Profile name used while creating this image.  
**slname** SLA template name used while creating this image.  
**sourceimage** obsolete  
**sourceuds** Cluster ID of the source cluster  
**targetuds** Cluster ID of the target cluster  
**virtualsize** Application size

Returns:

Return the backups image collection in ActImgCollection object.

**get\_jobs (\*\*kwargs)**

This method query for the jobs, running and archived. The following filter arguments can be used to refine the output. Returns ActJobCollection object.

Args:

**apid**  
**appname**  
**component**  
**enddate**  
**errorcode**

**expirationdate**  
**hostname**  
**isscheduled** [ true | false ]  
**jobclass**  
**jobname**  
**jobtag**  
**parentid**  
**policyname**  
**priority**  
**progress**  
**queuedate**  
**relativesize**  
**retrycount**  
**sltname**  
**startdate**  
**status** [ running | queued | paused | interrupted | stalled ]  
**sourceid**  
**virtualsize**

Returns:

*ActJobCollection* object with a collection of jobs as per the selection criteria.

**get\_image\_bytime** (*application*, *restorettime*, *strict\_policy=False*, *job\_class='snapshot'*)

This method returns a *ActImage* object with a single image to the specified restore time.

Args:

**application** should be the application in the form of *ActApplication* object.

**strict\_policy** [True | False] If set to true, the image will be selected from log recovery range, with the closest image to replay the logs on.

**restorettime** can be datetime object or string with the format [YYYY-MM-DD HH:mm:ss] **job\_class**: Defaults to snapshot. Should be string type, to any supported image jobclass.

Returns:

*ActImage* object to the specified *restorettime*. If *strict\_policy* is set to *True*, the image will be selected to the closest *restorettime*, where redo logs can be played up to the *restorettime*. If *strict\_policy* is set to *False*, then the closest image to the restore time will be selected. When *strict\_policy* is *False*, the recovery image consistency time could be ahead of the *restorettime*, however *strict\_policy* is *True* would ensure image consistency time is always lower than the *restorettime*.

**clone\_database** (*source\_hostname=*", *source\_appname=*", *source\_application=None*, *target\_hostname=*", *target\_host=None*, *restorettime=*", *strict\_policy=True*, *pre\_script=*", *post\_script=*", *nowait=True*, *\*\*kwargs*)

This method creates a virtual clone of Oracle or SQL server database.

Agrs:

**source\_hostname** Hostname of the source host where the database was captured from  
**source\_appname** source application name, or the database name  
**target\_hostname** target host where the virtual clone need to be created on

*Miscelaneous Parameters*

**restoretimetime** Point in time the database needs to be recovered to.  
**strict\_policy** Defaults to True, If set to True (only for applications with log database backups), :databases will be cloned to the time specified.  
**nowait** defaults to True, if True, this method will be non-blocking mode.

*Oracle Related Parameters*

**oracle\_home (required)** ORACLE\_HOME  
**oracle\_db\_name (required)** SID of the target clone  
**oracle\_user (optional)** Defaults to “oracle”.  
**oracle\_tns\_admin (optional)** TNS admin path, defaults to \$ORACLE\_HOME/network/admin.  
**oracle\_db\_mem (optional)** Total Memory Target for the database, defaults to 512MB.  
**oracle\_sga\_pct (optional)** Memory Percentage to allocate for SGA  
**oracle\_redo\_size (optional)** Redo Log size in MB, defaults to 500  
**oracle\_shared\_pool (optional)** Oracle Shared Pool size  
**oracle\_db\_cache\_size (optional)** Oracle DB Cache size  
**oracle\_recover\_dest\_size (optional)** Oracle Parameter db\_recover\_dest\_size. Defaults to 5000  
**oracle\_diagnostic\_dest (optional)** Oracle Diagnostic Destination  
**oracle\_nprocs (optional)** Num of Max processes  
**oracle\_open\_cursors (optional)** Number of open\_cursors. defaults to 1000.  
**oracle\_char\_set (optional)** Charerset. Defaults to ‘AL32UTF8’  
**oracle\_tns\_ip (optional)** TNS IP Address  
**oracle\_tns\_port (optional)** TNS Port  
**oracle\_tns\_domain (optional)** TNS Domain  
**oracle\_no\_nid (optional)** Do not change the DBID of the new clone. Will maintain same DBID as the source. Defaults to FALSE  
**oracle\_no\_tns\_update (optional)** Do not update TNS records. Defaults to FALSE  
**oracle\_restore\_recov (optional)** Recover the oracle database. Defaults to TRUE  
**oracle\_no\_rac (optional)** Treat as Oracle RAC. Defaults to TRUE

*SQLServer Related*

**sql\_instance\_name (required)** Target SQL Server instance name  
**sql\_recover\_userlogins (optional)** Recover user logins of the database. Defaults to FALSE

**sql\_username (optional)** Username for database provisioning

**sql\_password (optional)** Password for the specified user

**sql\_recover\_db (optional)** Recover database after mount

*SQLServer DB Application*

**sql\_db\_name (required)** Database name at the target instance. (Only required if the source application is database or single database mount from instance.)

*SQLServer Instance (Single DB)*

**sql\_source\_dbnames (required)** Source database names if the source application is SQL instance. Use ‘;’ as delimiter for multiple databases. (Only required if the source application is SQL server instance.)

**sql\_db\_name (required)** Database name at the target instance. (Only required if the source application is database or single database mount from instance.)

**sql\_dbname\_prefix (optional)** Prefix of database name for multiple database mount

**sql\_dbname\_suffix (optional)** Suffix of database name for multiple database mount

*SQLServer Instance (Multiple DBs)*

**sql\_source\_dbnames (required)** Source database names if the source application is SQL instance. Use ‘;’ as delimiter for multiple databases. (Only required if the source application is SQL server instance.)

**sql\_cg\_name (required)** Consistency group name. (Only required if the source application is SQL Server instance and mount multiple databases at a time.)

**sql\_dbname\_prefix (optional)** Prefix of database name for multiple database mount

**sql\_dbname\_suffix (optional)** Suffix of database name for multiple database mount

Returns:

This method returns a tuple of (ActJob,ActImage), respectively the resulting Job and Image.

**simple\_mount (source\_application=None, target\_host=None, mount\_image=None, restore\_time='', strict\_policy=False, pre\_script='', post\_script='', nowait=True, job\_class='snapshot', mount\_mode='nfs', label='Python Library', \*\*kwargs)**

This method mounts a simple mount operation, for a application type. This mount will not create a virtual clone (if you need to create a virtual clone look into clone\_database() instead).

Args:

*If not mount\_image is None*

**mount\_image (required)** ActImage object refering to mount image

*ElseIf not source\_application is None*

**source\_hostname (required)** hostname where the server was backed up from.

**source\_appname (required)** name of the application

*Else*

**source\_application (required)** ActApplication object refereing to source application

*If not target-host is None*

**target\_hostname (required)** hostname of the target host

*Else*

**target\_host (required)** ActHost object refering to the target host

**restorettime (optional)** recovery time of the mount image, depending on the strict\_policy, the closest image will be selected.

**strict\_policy (optional)** Boolean, defaults to False, if True, application is treated as transaction log capable and image is selected to a level where recoverable to restore-time. Else closest image to the time will be selected

**pre\_script (optional)** Pre Script for the mount operation

**post-script (optional)** Post Script for the mount operation

**nowait (optional)** defaults to True, mount job will not wait till the completion, if False, this method will be blocking until the job completion.

**job\_class (optional)** Defaults to “snapshot”, valid jobclasses are, [ snapshot | dedup | dedupasync | OnVault ]. job\_class is applicable only when the restorettime is specified.

**mount\_mode (optional)** Takes the value, physical (pRDM), independentvirtual (vRDM), or nfs (requires 9.0)

**maptoallesxhosts (optional)** Defaults to False. Map to all the ESXi hosts in the cluster.

### *Restore Options*

**vm\_name (optional)** For a new vm, VM name.

**vm\_poweron (optional)** Defaults to False. Poweron the VM upon mount.

Any of the restoreoptions as listed in the **udsinfo lsrestoreoptions** can be specified as key=value command arguments.

---

**Note:** For more information on the restore options refer to the Appendix F on the RESTfulAPI.pdf.

---

Returns:

This method returns a tuple of (ActJob,ActImage), respectively the resulting Job and Image.

**unmount\_image (image=None, delete=True, nowait=True, pre\_script='', post\_script='')**  
Unmount a mounted image.

Args:

**image** ActImage object of the mounted image.

**delete** Delete the image after unmount

**nowait** Don't wait for the job completion.

**pre\_script (optional)** Pre Script for the mount operation

**post-script (optional)** Post Script for the mount operation

Return:

Returns ActJob image with the resulting job

**failover\_database (source\_application=None, target\_host=None, pre\_script='', post\_script='', mount\_mode='physical', label='Python Library', \*\*kwargs)**  
This method would failover SQL database application from a

# CHAPTER 2

---

## ActImageCollection Class

---

Iterable class of *ActImage* collections. Returned by :ref: *Actifio.get\_images()* method.

### 2.1 ActImage Class

ActImage object represent a Actifio backup image. This is a returned as part of a ActImageCollection through interable protocol, or through and index.

Method *Actifio.get\_image\_bytime()* would return the *ActImage*, instead of the *ActImageCollection*.

**class** *Actifio.ActImage* (*applaince, imgdata*)

**details()**

Fetch further details of the backups image.

Args:

None

Returns:

None

**restoreoptions** (*action, targethost*)

Retrieve restore options for a *ActImage* for mount / clone / restore operations

Args:

**action (required)** operation [ mount, restore , clone ]

**targethost (required)** Host ID of the targethost, *ActHost* type

Returns:

Returns a *ActRestoreoptionCollection* object with the relavant restore options for this image, for the specified action.

**provisioningoptions()**

Retrieve restore xoptions for a ActImage for mount / clone / restore operations

Args:

None:

Returns:

Returns a ActProvisiningoptionCollection object with the relavant provisioning options for this appclass.

### 2.1.1 Example:

```
images = appliance.get_images(appname="mydb", jobclass="OnVault")  
  
firstimage = images[0]  
  
print(type(firstimage))  
  
>>> Actifio.ActSupportClasses.ActImage
```

```
class Actifio.ActImageCollection(appliance, lsbackupdata)
```

### 2.2 Example:

```
images = appliance.get_images(appname="mydb", jobclass="OnVault")  
  
for image in images:  
    print(image)  
  
# or to list all backups taken last 24 hours.  
  
from datetime import datetime  
  
yesterday = datetime.today() - datetime.timedelta(day=1)  
  
for image in images:  
    consistencydate = datetime.strptime(image.consistencydate[:-4], "%Y-%m-%d %H:%M:%S")  
    if consistencydate > yesterday:  
        print(image)
```

# CHAPTER 3

---

## ActJobsCollection Class

---

ActJobsCollection defines a iterable collection of Actifio jobs. ActJobCollection class objects are returned from Actifio.get\_jobs() method.

### 3.1 ActJob Class

ActJob object represent a Actifio backup image. This is returned as part of a ActJobsCollection through interable protocol, or through and index.

Method `Actifio.clone_database()` and `Actifio.simple_mount()` would return the `ActJob` and :doc: `ActImage </actimage>` in a tuple

`class Actifio.ActJob(appliance, jobdata)`

`refresh()`

Method to refresh the job details.

Args:

None

Returns:

None

#### 3.1.1 Example:

```
jobs = appliance.get_jobs(hostname="myVM", jobclass="dedup", status="running")  
  
if len(jobs) > 0:  
    firstjob = jobs[0]
```

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```
# or from a mount operation

job, image = appliance.simple_mount(source_application=apps[0], target_host=hosts[0])

while job.status == "running":
    print("Still Running")
print("Phew, it's done.")
```

**class** `Actifio.ActJobsCollection(appliance, lsjobsalldata)`

Iterable collection of jobs.

**refresh()**

Method to refresh the job details, for each job.

## 3.2 Example:

```
jobs = appliance.get_images(appname="mydb", jobclass="snapshot")

for job in jobs:
    print(image)

# or refine further to find out running jobs

jobs = appliance.get_images(appname="mydb", jobclass="snapshot", status="running")

for job in jobs:
    print(image)
```

# CHAPTER 4

---

## ActAppCollection Class

---

ActAppsCollection represents a collection of Actifio applications generated using :doc: *Actifio.get\_applications()* method. ActAppsCollection is a iterable collection.

### 4.1 ActApplication Class

ActImage object represent a Actifio backup image. This is a returned as part of a ActImageCollection through interable protocol, or through and index.

Method `Actifio.get_image_bytime()` would return the `ActImage`, instead of the `ActImageCollection`.

`class Actifio.ActApplication(appliance, appdata)`

`provisioningoptions()`

Retrieve restore options for a ActImage for mount / clone / restore operations

Args:

None:

Returns:

Returns a `ActProvisiningoptionCollection` object with the relavant provisioning options for this appclass.

#### 4.1.1 Example:

```
apps = appliance.get_applications(appname="mydb")

if len(apps) > 0:
    myapp = apps[0]
```

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```
print (type(myapp))

>>> Actifio.ActSupportClasses.ActApplication
```

```
class Actifio.ActAppCollection(appliance, lsapplicationdata)
```

## 4.2 Example:

```
# to get all SQL Server..

sql_apps = appliance.get_applications(friendlytype="SQLServer")

# or to get both SQL Server and SQL Instance types

all_sql_apps = appliance.get_applications(friendlytype="SQLServer*")

for app in sql_apps:
    print(app)
```

# CHAPTER 5

---

## ActHostCollection Class

---

ActHostCollection represents a collection of Actifio hosts generated using :doc: *Actifio.get\_hosts()* method. ActHostCollection is a iterable collection.

### 5.1 ActHost Class

ActHost object represent a Actifio host entry. This is returned as part of a ActHostsCollection through interable protocol, or through and index.

Method `Actifio.clone_database()` and `Actifio.simple_mount()` would take `ActHost` as an argument.

```
class Actifio.ActHost(appliance, hostdata)
```

#### 5.1.1 Example:

```
hosts = appliance.get_hosts(hostname="myVM", isvm="true")

for host in hosts:
    print(host)

print(type(host))

>>> Actifio.ActSupportClasses.ActHost
```

```
class Actifio.ActHostCollection(appliance, lshostdata)
```

## 5.2 Example:

```
hosts = appliance.get_hosts(hostname="myVM", isvm="true")  
  
print(hosts)  
  
>>> Collection of 1 hosts.  
  
print(len(hosts))  
  
>>> 1
```

# CHAPTER 6

---

## How to install?

---

To install the Actifio module, from a command line interface:

```
→ pip install Actifio
```

This will ensure all the dependencies are managed and installed with the Actifio module installation. Once installed:

```
→ pip show Actifio
Name: Actifio
Version: 0.9.0
Summary: Actifio Restful API wrapper for Python.
Home-page: https://github.com/Actifio/actifio-python-package
Author: Kosala Atapattu
Author-email: kosala.atapattu@actifio.com
License: MIT
Location: /usr/local/lib/python2.7/site-packages
Requires: urllib3
Required-by:
```



# CHAPTER 7

---

## Geting started!!!

---

By design philosophy of this library is to make sure that the user experience is consistent to the actual product. Start Python and then you can import the module by:

```
from Actifio import Actifio
```

The library supports two modes of authentication, either using username or password, or using token generated locally.

- Username and Password
- 

With the same information you use to login to the appliance, you can create a appliance object.

```
appliance = Actifio("myappliance", "my_scripting_user", "super_secret")
```

Or

- With Token
- 

You can generate a token using the script in “bin/” folder, or using the command. To generate a token:

```
$ bin/actgentoken
Username: demo
Password:
Confirm password:

=====
Token=====

b'eyAidXNlcm5hbWUiOiAiZGVtbyIsICJwYXNzd29yZCI6ICJkZW1vIiB9\n'
```

Once the token is generated, appliance object can be instantiated as following:

```
appliance = Actifio("myappliance", token=b
↳ 'eyAidXNlcm5hbWUiOiAiZGVtbyIsICJwYXNzd29yZCI6ICJkZWlvIiB9\\n')
```

Once the appliance object is instantiated, we can perform the operations we perform on the appliance.

List all the hosts, for example:

```
hosts = appliance.get_hosts(hostname="my_host")

# and to see the top host in my List

host = hosts[0]

# or refine further

hosts = appliance.get_hosts(hostname="my_host", isvm="true")
```

Or find an application:

```
apps = appliance.get_applications(appname="mydb")

# and to see the top application in my List

if len(apps) > 0:
    app = apps[0]

# or refine further, and get my Oracle database

hosts = appliance.get_applications(appname="mydb", friendlytype="Oracle")
```

Once I have that, then I can perform the actions I usually perform... create a virtual clone of a DB appliance. `clone_database()` or create a instant mount `appliance.clone_database()`. Checkout the examples section for more details.

# CHAPTER 8

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