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# **Python bindings for Syncthing REST API**

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## Usage

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### Parameters

Name	Type	Description	Mandatory?
api_key	string	API key	Yes
api_url	string	Url to connect to. Default is <a href="https://127.0.0.1:8384">https://127.0.0.1:8384</a>	No

Make a new instance of `SyncthingClient` with API key and Url.

```
>> from pysyncthing import SyncthingClient
>> client = SyncthingClient('XX6406JTI3NH673QRHOGU840PL8702', 'https://192.168.1.26:8384')
```

## 1.1 get\_version()

returns current version

```
>> client.get_version()
```

Response:

```
{'arch': 'amd64',
'codename': 'Aluminium Ant',
'longVersion': 'syncthing v0.11.25 "Aluminium Ant" (go1.4.2 linux-amd64 default) mockbuild@build2.hor
'os': 'linux',
'version': 'v0.11.25'}
```

## 1.2 get\_connections()

Returns current connections

```
>> client.get_connections()
```

Response:

```
{'connections': {},
'total': {'address': '',
'at': '2015-11-10T09:47:04.702349573+02:00',
'clientVersion': '',
'inBytesTotal': 0,
'outBytesTotal': 0}}
```

## 1.3 get\_config()

Returns current syncthing config

```
>> client.get_config()
```

Response:

```
{'devices': [{ 'addresses': ['dynamic'],
  'certName': '',
  'compression': 'metadata',
  'deviceID': 'KIQNIU2-FCDVMLH-UOHLLDI-7XYZRDU-TPEQSW4-B4W3YTF-LWUJP3N-6SMUFFK',
  'introducer': False,
  'name': 'standalone.home.topdog-software.com'}],
'folders': [{ 'autoNormalize': True,
  'copiers': 0,
  'devices': [{ 'deviceID': 'KIQNIU2-FCDVMLH-UOHLLDI-7XYZRDU-TPEQSW4-B4W3YTF-LWUJP3N-6SMUFFK',
  'hashers': 0,
  'id': 'ms-quarantine',
  'ignoreDelete': False,
  'ignorePerms': False,
  'invalid': '',
  'minDiskFreePct': 1,
  'order': 'random',
  'path': '/var/spool/MailScanner/quarantine',
  'pullers': 0,
  'readOnly': False,
  'rescanIntervals': 60,
  'versioning': {'params': {}, 'type': ''}}],
'gui': {'address': '0.0.0.0:8384',
  'apiKey': 'C1CrL0g-GZSD9galtsad6gl6pXOhk665',
  'enabled': True,
  'password': '',
  'useTLS': True,
  'user': ''},
'ignoredDevices': [],
'options': {'autoUpgradeIntervalH': 12,
  'cacheIgnoredFiles': True,
  'databaseBlockCacheMiB': 0,
  'globalAnnounceEnabled': False,
  'globalAnnounceServers': ['udp4://announce.syncthing.net:22026',
  'udp6://announce-v6.syncthing.net:22026'],
  'keepTemporariesH': 24,
  'limitBandwidthInLan': False,
  'listenAddress': ['0.0.0.0:1027'],
  'localAnnounceEnabled': False,
  'localAnnounceMCAddr': '[ff32::5222]:21026',
  'localAnnouncePort': 21025,
  'maxRecvKbps': 0,
  'maxSendKbps': 0,
  'minHomeDiskFreePct': 1,
  'pingIdleTimeS': 60,
  'pingTimeoutS': 30,
  'progressUpdateIntervals': 5,
  'reconnectionIntervals': 60,
  'restartOnWakeup': True,
  'startBrowser': False,
  'symlinksEnabled': True,
```



```
'upnpEnabled': False,
'upnpLeaseMinutes': 60,
'upnpRenewalMinutes': 30,
'upnpTimeoutSeconds': 10,
'urAccepted': -1,
'urUniqueId': ''},
'version': 11}
```

## 1.4 get\_insync()

Returns current insync condition

```
>> client.get_insync()
```

Response:

```
{'configInSync': True}
```

## 1.5 get\_errors()

Returns raised and not cleared errors

```
>> client.get_errors()
```

Response:

```
{'errors': []}
```

## 1.6 get\_discovery()

Returns local discovery hash

```
>> client.get_discovery()
```

Response:

```
{}
```

## 1.7 new\_error()

Raises a new error with given message. Returns code 200 on success.

```
>> client.new_error('foo')
```

Response:

```
{'message': 'Completed successfully', 'code': 200}
```

## 1.8 clear\_errors()

Clears previously raised errors. Returns code 200 on success.

```
>> client.clear_errors()
```

Response:

```
{'message': 'Completed successfully', 'code': 200}
```

## 1.9 new\_config()

Uploads a new config to syncthing server.

### Parameters

Name	Type	Description	Mandatory?
config	Dict	New syncthing config	Yes

```
cfg = {}  
>> client.new_config(cfg)
```

Response:

```
{'message': 'Completed successfully', 'code': 200}
```

## 1.10 restart()

Will restart syncthing server

```
>> client.restart()
```

Response:

```
{'ok': 'restarting'}
```

## 1.11 reset()

This means renaming all repository directories to temporary, unique names, destroying all indexes and restarting.

This should probably not be used during normal operations...

```
>> client.reset()
```

Response:

```
{'ok': 'resetting database'}
```

## 1.12 shutdown()

This shuts down the server

```
>> client.shutdown()
```

Response:

```
{'ok': 'shutting down'}
```

## 1.13 get\_upgrade()

Check for the new version

```
>> client.get_upgrade()
```

## 1.14 upgrade()

Perform an upgrade and restart if new version exists. Does nothing if current version is latest.

```
>> client.upgrade()
```

Response:

```
{'message': 'Completed successfully', 'code': 200}
```

## 1.15 get\_status()

Returns current status

```
>> client.get_status()
```

Response:

```
{'alloc': 8319640,  
'cpuPercent': 0.0399951236269495,  
'goroutines': 34,  
'myID': 'KIQNIU2-FCDVMLH-UOHLLDI-7XYZRDU-TPEQSW4-B4W3YTF-LWUJP3N-6SMUFFK',  
'pathSeparator': '/',  
'sys': 16267512,  
'tilde': '/var/spool/exim',  
'uptime': 752}
```

## 1.16 get\_ping()

Returns a {"ping": "pong"} object

```
>> client.get_ping()
```

Response:

```
{'ping': 'pong'}
```

## 1.17 browse\_database()

### Parameters

Name	Type	Description	Mandatory?
folder	string	Name of a database	Yes
level	int	Depth of a list. Default is 0 - maximum depth	No
prefix	string	Path to directory or subdirectory to start from	No

Returns files in given folder

```
>> client.browse_database('ms-quarantine')
```

Response:

```
{'phishingupdate': {'cache': {'2092': ['2015-08-06T16:08:26+02:00',  
                                     252661],  
                               '2092.42': ['2015-08-08T09:10:49+02:00',  
                                           248535]},  
                    'status': ['2015-08-08T09:10:49+02:00', 8]}}
```

## 1.18 get\_completion()

Returns completion in percentage (0-100) for given device and folder

### Parameters

Name	Type	Description	Mandatory?
device	string	device_id	Yes
folder	string	folder name	Yes

```
>> client.get_completion('6RBLNBN-6EIGPRG-ZLZR7XI-LDWUXSE-NYWEBLI-3DFE2AI-L2DP3JL-4R77ZAM', 'ms-quarantine')
```

Response:

```
{'completion': 100}
```

## 1.19 get\_file()

Returns info for given file

### Parameters

Name	Type	Description	Mandatory?
file	string	file name	Yes

```
>> client.get_file('phishingupdate')
```

Response:

```
{'availability': None,  
'global': {'flags': '0',  
            'localVersion': 0,  
            'modified': '1970-01-01T02:00:00+02:00',  
            'name': '',  
            'numBlocks': 0,  
            'size': 0,
```

```

        'version': [],
'local': {'flags': '0',
        'localVersion': 0,
        'modified': '1970-01-01T02:00:00+02:00',
        'name': '',
        'numBlocks': 0,
        'size': 0,
        'version': []}}
```

## 1.20 get\_ignores()

Returns ignores for given folder

### Parameters

Name	Type	Description	Mandatory?
folder	string	folder	Yes

```
>> client.get_ignores('ms-quarantine')
```

Response:

```
{'ignore': None, 'patterns': None}
```

## 1.21 new\_ignores()

Sets new ignores for given folder

### Parameters

Name	Type	Description	Mandatory?
folder	string	folder	Yes
ignores	object	ignore object like in get_ignores response	Yes

```
>> ignores = {'ignore': ['foo']}
>> client.new_ignores('ms-quarantine', ignores)
```

Response:

```
{'ignore': ['foo'], 'patterns': ['^foo$', '^.*foo$', '^foo.*$', '^.*foo.*$']}
```

## 1.22 need()

Returns files which are needed for this device.

### Parameters

Name	Type	Description	Mandatory?
folder	string	folder	Yes

```
>> client.get_need('ms-quarantine')
```

Response:

```
{'perpage': 65536, 'rest': [], 'queued': [], 'progress': [], 'total': 0, 'page': 1}
```

## 1.23 assign\_priority()

Assigns top priority for a given file in a given folder

### Parameters

Name	Type	Description	Mandatory?
folder	string	folder	Yes
file	string	filename	Yes

```
>> client.assign_priority('ms-quarantine', '1Ze9NH-00057p-V1')
```

Response:

```
{'perpage': 65536, 'rest': [], 'queued': [], 'progress': [], 'total': 0, 'page': 1}
```

## 1.24 scan()

Request an immediate rescan of a folder with a subfolder

### Parameters

Name	Type	Description	Mandatory?
folder	string	folder	Yes
subfolder	string	subfolder name	No

```
>> client.scan('ms-quarantine')
```

Response:

```
{'message': 'Completed successfully', 'code': 200}
```

## 1.25 get\_folder\_status()

Returns status for a given folder

### Parameters

Name	Type	Description	Mandatory?
folder	string	folder	Yes

```
>> client.get_folder_status('ms-quarantine')
```

Response:

```
{'globalBytes': 501460,
'globalDeleted': 0,
'globalFiles': 5,
'ignorePatterns': True,
'inSyncBytes': 501460,
'inSyncFiles': 5,
'invalid': '',
'localBytes': 501460,
```

```
'localDeleted': 0,
'localFiles': 5,
'needBytes': 0,
'needFiles': 0,
'state': 'idle',
'stateChanged': '2015-11-10T10:03:28.992782938+02:00',
'version': 6}
```

## 1.26 get\_device\_statistics()

Returns device statistics

```
>> client.get_device_statistics()
```

Response:

```
{'KIQNIU2-FCDVMLH-UOHLLDI-7XYZRDU-TPEQSW4-B4W3YTF-LWUJP3N-6SMUFFK': {'lastSeen': '1970-01-01T02:00:00'}}
```

## 1.27 get\_folder\_statistics()

Returns general statistics about folders.

```
>> client.get_folder_statistics()
```

Response:

```
{'ms-quarantine': {'lastFile': {'at': '0001-01-01T00:00:00Z',
                             'deleted': False,
                             'filename': ''}}}
```





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**Modules**

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## Indices and tables

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