

S3

Basic Modules to import

```
from boto.s3.connection import S3Connection
from boto.s3.key import Key
import boto
```

Basic Operations

Connecting:

```
c = S3Connection(<AWS_KEY_ID>, <AWS_SECRET_KEY> [,region,...])
c = boto.connect_s3()
```

Creating a bucket:

```
c.create_bucket('bucket-name')
```

Getting a bucket:

```
b = c.get_bucket('bucket-name')
```

Deleting a bucket:

```
c.delete_bucket(b)
```

Getting a bucket object:

```
k = Key(b)
k.key = 'object-name'
```

Downloading said object to file:

```
k.get_contents_to_filename('filename')
```

Downloading string data:

```
k.get_contents_as_string()
```

Creating a new object key:

```
k = b.new_key('key-name')
```

Uploading file to bucket:

```
k.key = 'object-name'
k.set_contents_from_filename(<path_to_file>)
```

Uploading from string:

```
k.set_contents_from_string(<string>)
```

Other Operations:

Setting Access Controls (bucket-wide):

```
b.set_acl('public-read')
# or any of 'private', 'public-read-write', 'authenticated-read'
```

Object-specific Access Control:

```
b.set_acl('private', 'confidential.txt')
```

Setting Object Metadata:

```
k.set_metadata('meta1', 'This is the first metadata value')
k.set_metadata('meta2', 'This is the second metadata value')
```

Getting Object Metadata:

```
k.get_metadata('meta1')
'This is the first metadata value'
```

SQS

Basic Imports:

```
from boto.sqs.connection import SQSConnection
from boto.sqs.message import Message
import boto
```

Basic Operations:

Connecting:

```
c = SQSConnection(AWS_KEY_ID, AWS_SECRET_KEY[, region])
c = boto.connect_sqs()
```

Creating a queue:

```
q = c.create_queue('<que_name>'[,visibility_timeout])
```

Listing all queues in region:

```
qs = c.get_all_queues([prefix='<prefix>'])
```

Getting a specific queue:

```
q = c.get_queue('<queue_name>')
```

Writing messages:

```
m = Message()
m.set_body('<body_text>')
res = q.write(m)
```

Reading Messages:

```
rs = q.get_messages([num_messages,...])
mbody = rs[0].get_body()
```

Deleting Messages:

```
q.delete_message(m)
```

Emptying a queue:

```
q.clear() #use carefully
```

Deleting (Empty) queues:

```
c.delete_queue(q)
```