

KEYPHRENE ' S BLOG

SFTP

How to open a sftp connection and list a directory

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```
import socket
from org.keyphrene import SSH2
# or
# from ssh4py import SSH2

HOSTNAME = "127.0.0.1"
PORT = 22
LOGIN = "login"
PWD = "password"
PATH = "/home/login"

sock = socket.socket(socket.AF_INET, socket.SOCK_STREAM)
sock.connect((HOSTNAME, PORT))
sock.setblocking(1)

ssh = SSH2.Session()
ssh.setBanner(SSH2.DEFAULT_BANNER+" Python
(http://www.keyphrene.com/projects/org.keyphrene)")
ssh.startup(sock)
ssh.setPassword(LOGIN, PWD)

# open a SFTP channel
sftp = ssh.SFTP()

# get filesize
stats = sftp.getStat("/path/to/filename.txt")
filesize=stats[0] # Filesize
uid = stats[1] # UID
gid = stats[2] # GID
```

```
permissions = stats[3] # Permissions ex: rw-rw-rw
atime = stats[4] # Time of most recent access
mtime = stats[5] # Time of most recent content modification
```

```
handle = sftp.openDir(PATH)
```

```
if handle:
```

```
    # Open a sftp connection and list a directory
```

```
    while 1:
```

```
        data = sftp.readDir(handle)
```

```
        if not data: break
```

```
        print data
```

```
    # Open a sftp connection and list a directory with attributes
```

```
    for f, attr in sftp.listdir(handle):
```

```
        print f, attr
```

```
# Open a file
```

```
channel = sftp.open("/path/to/filename.txt", "rb")
```

```
while 1:
```

```
    data = sftp.read(channel, 1024)
```

```
    if not data: break
```

```
    print data
```

```
sftp.close(channel)
```

```
# Save a file
```

```
channel = sftp.open("/path/to/filename.txt", "wb")
```

```
sftp.write(channel, "my data ...")
```

```
sftp.close(channel)
```

```
# close the SFTP channel
```

```
sftp.close(handle)
```

```
sftp.shutdown()
```

```
ssh.close()
```