Cheatography

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Sockets			Soc	:k
s = socket.socket (socket_famil y,	socket_family: This is either AF_UNIX or AF_INET, as	AF_INET: TCPv4 or Hostname	prot	
socket_type, protocol=0)	explained earlier. socket_type: This is either	SOCK_D- GRAM: UDP	nosu	
	SOCK_STREAM or SOCK_DGRAM.	SOCK_ST REAM: TCP		
	protocol: This is usually left out, defaulting to 0.			
Domain	The family of protoc used as the transpor- mechanism. These constants such as <i>P</i> PF_INET, PF_UND and so on.	ort values are AF_INET,		
Туре	The type of commu between the two en typically SOCK_ST connection-oriented and SOCK_DGRAN connectionless prot	idpoints, REAM for I protocols M for		

Sockets (cont)		
orotocol	Typically zero, this may be used to identify a variant of a protocol within a domain and type.	
nostname	The identifier of a network interface:	
	A string, which can be a host name, a dotted-quad address, or an IPV6 address in colon (and possibly dot) notation	
	A string " <broadcast>", which specifies an INADDR_BROADCAST address.</broadcast>	
	A zero-length string, which specifies INADDR_ANY, or An Integer, interpreted as a binary address in host byte order.	

Server Socket Methods

s.bind()	This method binds address (hostname, port number pair) to socket.
s.listen()	This method sets up and start TCP listener.
s.accept()	This passively accept TCP client connection, waiting until connection arrives (blocking).

Client Socket Method

s.conne	This method actively initiates TCP
ct()	server connection.

General Socket Method		
s.recv()	This method receives TCP message	
s.send()	This method transmits TCP message	
s.recvfrom()	This method receives UDP message	
s.sendto()	This method transmits UDP message	
s.close()	This method closes socket	
socket.gethostna me()	Returns the hostname.	

Simple Server Example

```
#!/usr/bin/python # This is
server.py file
import socket # Import socket
module
s = socket.socket() # Create a
socket object
host = socket.gethostname() # Get
local machine name
port = 12345 # Reserve a port for
your service.
s.bind((host, port)) # Bind to the
port
s.listen(5) # Now wait for client
connection.
while True:
```

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Simple Server Example (cont)

```
c, addr = s.accept() # Establish connection with
client.
    print 'Got connection from', addr
```

```
c.send('Thank you for connecting')
```

c.close() # Close the connection

Simple Client Example

#!/usr/bin/python # This is client.py file import socket # Import socket module s = socket.socket() # Create a socket object host = socket.gethostname() # Get local machine name port = 12345 # Reserve a port for your service. s.connect((host, port)) print s.recv(1024) s.close # Close the socket when done

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