

```
#Open SSHv2 connection to devices

def open_ssh_conn(ip):

    #Change exception message

    try:

        #Define SSH parameters

        selected_user_file = open(user_file, 'r')


        #Starting from the beginning of the file

        selected_user_file.seek(0)


        username = selected_user_file.readlines()[0].split(',')[0]


        #Starting from the beginning of the file

        selected_user_file.seek(0)


        password = selected_user_file.readlines()[0].split(',')[1]


        #Logging into device

        session = paramiko.SSHClient()


        session.set_missing_host_key_policy(

            paramiko.AutoAddPolicy())


        session.connect(ip, username = username, password = password)
```

```
connection = session.invoke_shell()
```

```
#Setting terminal length for entire output - no pagination
```

```
connection.send("terminal length 0\n")
```

```
time.sleep(1)
```

```
#Entering global config mode
```

```
connection.send("\n")
```

```
connection.send("configure terminal\n")
```

```
time.sleep(1)
```

```
#Open user selected file for reading
```

```
selected_cmd_file = open(cmd_file, 'r')
```

```
#Starting from the beginning of the file
```

```
selected_cmd_file.seek(0)
```

```
#Writing each line in the file to the device
```

```
for each_line in selected_cmd_file.readlines():
```

```
    connection.send(each_line + '\n')
```

```
    time.sleep(2)
```

```
#Closing the user file
```

```
selected_user_file.close()
```

```
#Closing the command file
```

```
selected_cmd_file.close()
```

```
#Checking command output for IOS syntax errors
```

```
output = connection.recv(65535)
```

```
if re.search(r"% Invalid input detected at", output):
```

```
    print "* There was at least one IOS syntax error on device %s" % ip
```

```
else:
```

```
    print "\nDONE for device %s" % ip
```

```
#Test for reading command output
```

```
#print output + "\n"
```

```
#Closing the connection
```

```
session.close()
```

```
except paramiko.AuthenticationException:
```

```
    print "* Invalid username or password. \n* Please check the username/password file or the device configuration!"
```

```
    print "* Closing program...\n"
```

```
#Calling the SSH function
```

```
open_ssh_conn(ip)
```