

# Initial Instruction Set: How to use the gateway computers from a UNIX computer

We have generated a ssh key for your account. It will look something like:

```
-----BEGIN RSA PRIVATE KEY-----
Proc-Type: 4, ENCRYPTED
DEK-Info: DES-EDE3-CBC,6658F63B18AB5FBD

z4bz90adsf789023nJ3Ojpx+SUFkWIDG4IgfQzR3fuccJrLtTtyeG7z/Dye6yT9/
UUIVzxpnrFJsJwQh74aax0YDZjY3ek4b+k0qH9KY2ObV1oC0476EEG2tHTdt09ew
h/4yd3vl+4XTT1ir2pN9mirrx8VfHF9SVjEhbd1vusAP351jfcRtITwyee7nsXr9
EhlaesYCN50sQbdxniu8lALWYzaub9sd0tKNyEshDyXGWzgsfE1SCo8bE5bF05bi
LYAdkOLUuHyUNBEXbXcGasFuywlZkBTYc9aANgMo0EY9Nm0iI3wyg/Lt839PJWOr
FrZpfdkkuB/kI/2XUwnkkvOxizkWo5o0A4+RcAOUaP1XTuC7yvPwD1KqeUASbUOD
2t7q2JP127kP6d02+bYSKa0YD6bIN4UlDjiB7/cOQaUSJtD3Rfn5Bc73FxFxJnY2ah
vKxv9VrLuP/nJI2831yu89adsfCUUcGh132vu9js0daNb+PU6mpX1gQwFWdd9tJI
dYYxtCNHkCbceXnvkAIzToTNjnd7SBfETs62883FFJf7FeT1/5UVu43MrqNdeEZ5
GwqMy4SgzthFTHviNofew/Np0QRTQj+/5gwlIndfMV0VebeNoJMBcLbjm0nFJzKF
HzjEdCEeYb/oJ9Lgiy6zGmB3DmFNTc8mD4My43KXss9xYTL0aXWBPC+fsgPN7/Fm
Ti2XSR8gRb/siopdsabhioHP8zH/Lbz52fcrQIKEY+RP613/h*kaAFIr8HLV5ZKm
gHsGI2RO/kr4KKr16C6NHomwDP24CBdJRikHiNPD4tA=
-----END RSA PRIVATE KEY-----
```

If you are using a UNIX based machine, please copy the key (including the lines that have -----BEGIN RSA PRIVATE KEY-----, and -----END RSA PRIVATE KEY-----), and paste them into a text file, and save it as:

```
/home/<your_user_name>/.ssh/id_rsa
```

**Please contact us at (310)825-2418 during normal business hours to obtain the passphrase for your above key.**

## 1) *Connecting to the gateway machines*

You must use ssh to connect to the gateway machines (gate1.atmos.ucla.edu and gate2.atmos.ucla.edu).

If you are using UNIX, ssh will be executed from the command line:

```
$ ssh gate1.atmos.ucla.edu
```

As long as you have installed the key file ( /home/<your\_user\_name>/.ssh/id\_rsa ), the gateway will prompt you for the passphrase associated with your key. Enter in the passphrase you were given by us, and press return. If you successfully login, you will be greeted by the gate prompt:

```
gate (h for help) >
```

You are now on the gateway machine, and can login to

## 2) Logging into a departmental computer from the gateway:

--SSH into the gateway (as in step 1).

--At the gate prompt, enter the name of the workstation you want to login to, and enter the password when prompted. You can omit the domain name from the machine (e.g. for a machine named work.atmos.ucla.edu, you would only enter work at the prompt).

Example: Connecting to work.atmos.ucla.edu

Login to gate1 via ssh (using PuTTY), and at the gate prompt:

```
gate (h for help) > work
```

you would then be prompted for a password by the workstation work, and after successfully entering the password for your account, you would be connected to that workstation.

## 3) Using public key authentication for login from gate1 or gate2 to another departmental machine

You can setup keys from the gateway onto your departmental workstations. If you do this, you will no longer be prompted for a password when logging in from the gateway to your departmental machine (though you will still be prompted for your passphrase when logging into the gateways).

-- Ssh to one of the gate machines

--At the gate prompt enter "k" followed by the computer for which you like to use public key authentication. Example: To install a public key on work:

```
gate (h for help) > k work
```

You will be asked twice for your password for this computer. From that point on, when you login to gate, and type the name of that workstation (in this case, work), it will automatically log you in without prompting you for a password.

## 4) List of commands on the gateways:

h	Print help message.
hostname	Connect to hostname via ssh.
g	Generate a new password list.
G	Generate a new password list using only small letters and digits.
a	Activate a previously generated password list.
c	Copy password list to your Sun home directory.
p	Print password list.
e	Exit (logout).
k	Install an ssh public key on an Atmos. Sc. computer. You will be asked for the hostname of the computer and twice for your password for the machine. When done you will never again have to enter your password for this computer when logging in from a gate machine.
r	Replace/install your public-key for future login into gate1. (See ssh's documentation on public-key authentication.)

Example:

```
gate (h for help)> work  
Connects to work.atmos.ucla.edu via ssh
```