EECS Instructional and Electronics Support Department of Electrical Engineering and Computer Sciences

## **Using PuTTY to log into UNIX**

ssh tunnelling.doc 5/1/2008 EECS Instructional Support Group 378/384/386 Cory, 333 Soda inst@eecs.berkeley.edu

- Go to Start
- Go to Programs  $\rightarrow$  Xming  $\rightarrow$  Xming



• No new window will appear but you should get the following icon in your tool bar:



• Go to Programs  $\rightarrow$  PuTTY  $\rightarrow$  PuTTY



Once PuTTY opens the following window should open:



- Open the "Session" sub menu (1)
- Enter your login@hostname in the "Host Name (or IP address)" box (2)

If your class login is: csxxx-xx and you wish to login into Cory then your window would look as follows:

The state of the s	Basic options for your PuTTY session		
Logging ⊐ Terminal Keyboard Bell	Specify your connection by host name of Host <u>N</u> ame (or IP address) csxxx-xx@cory.eecs.berkeley.edu	r IP address <u>P</u> ort 22	
- Features Window - Appearance - Behaviour - Translation - Selection	C Raw C Ielnet C Rlogin Load, save or delete a stored session - Saved Sessions	€ <u>s</u> sн	
Colours Connection Data Proxy Telnet Rlogin	Default Settings	Load Sa <u>v</u> e elete	
E⊢SSH Kex Auth X11 Tunnels ▼	Close window on exit: C Always C Never © Only or	n clean exit	

- Open the "SSH" sub menu (3)
- Go to the "X11" branch in the "SSH" sub menu (4)
- Check the "Enable X11 forwarding"box (5)

Your window should look like this:



- Click the "Open" button.
- A new PuTTY window should start. You will be asked to enter your password. Note: PuTTY is asking for your UNIX account password.

Your window should look like this (assuming your login is csxxx-xx):



You may now use this window as a regular UNIX lab machine. For further information please go to <u>http://inst.eecs.berkeley.edu/cgi-bin/pub.cgi?file=unix.help</u>

## Setting up PuTTY keys

You do not need to set up PuTTY keys in order to use PuTTY to SSH into the lab UNIX terminals from home.

This feature will allow you to have a password that is separate from the standard UNIX password. Someone can then let you login to his/her account by installing the related public key to your PuTTY private keyin his/her account. In effect you will be able to login into someone else's account using your PuTTY password without knowing the other user's password



• Go to Programs  $\rightarrow$  PuTTY  $\rightarrow$  PuTTYgen

• After the following window appears, click the "Generate..." button (1)

PuTTY Key Generator		<u>?</u> ×	
-Key Conversions Heip -Key Nokey.			
Actions			(1)
Load an existing private key file		Load	
Save the generated key	Save pyblic key	Save private key	
Type of key to generate: SSH-1 (RSA)	ISA O SS	6H-2 <u>D</u> SA	
Number of <u>b</u> its in a generated key:		1024	

- Move around your mousewithin the window to generate the key.
- After the key is generated a similar screen should appear:

PuTTY Key Generator		? ×
<u>K</u> ey Con <u>v</u> ersions <u>H</u> elp		
(ey		
Public key for pasting into OpenSSH authorized	d_keys file:	
ssh-rsa AAAAB3NzaC1yc2EAAAABJQAAAIBzkEvQW XzLzz6N6Mil+r0wCH3Y8i0E7SzvLgmwU9enc FBfReMnx+Chc5Riegevf1LE+52YQZgaKQPJv 5w== rsa-key-20080425	/pqZ/8w8iKY1j4Bve6mAXR7HuKxd9hqL oG5hHAxrvC3HHvB5Eb++sQQI/s53VIbci v6H3IWX2xAWTCNh300B0QTosXP8J5	4
Key fingerprint: ssh-rsa 1023 dd:9c:2f:a	a8:31:e1:cf:cc:4c:91:ab:a5:c2:e1:7f:a8	
Key <u>c</u> omment: rsa-key-20080425		
Key passphrase:		-
Donfirm passphrase:		_
Actions		
Generate a public/private key pair	Generate	1
Load an existing private key file	Load	
Save the generated key	Save public key Save private ke	
Parameters	1	
Гуре of key to generate: ◯ SSH- <u>1</u> (RSA)	SSH-2 <u>D</u> SA	
Number of hits in a generated key:	1024	-

Note: "Key fingerprint", "Key Comment" and "Public key for passing into OpenSSH authorized\_keys file" boxes should have different values from the above screen

- Enter a passphrase in the "Key passphrase." and "Confirm passphrase:" boxes (2)
- Click the "Save private key" button and enter a location you want (3)
- Click the "Save public key" button and enter a location you want (4)
- Close the window
- Go to Programs  $\rightarrow$  PuTTY  $\rightarrow$  Pagent



• No new window will appear but you should get the following icon in your tool bar:



- Now start PuTTY as indicated in the previous section.
- When PuTTY starts enter the passphrase you chose in the "Key passphrase." and "Confirm passphrase." boxes (2) instead of your UNIX password.
- You will no longer have to enter your passphrase orpassword on subsequent uses of PuTTY.