

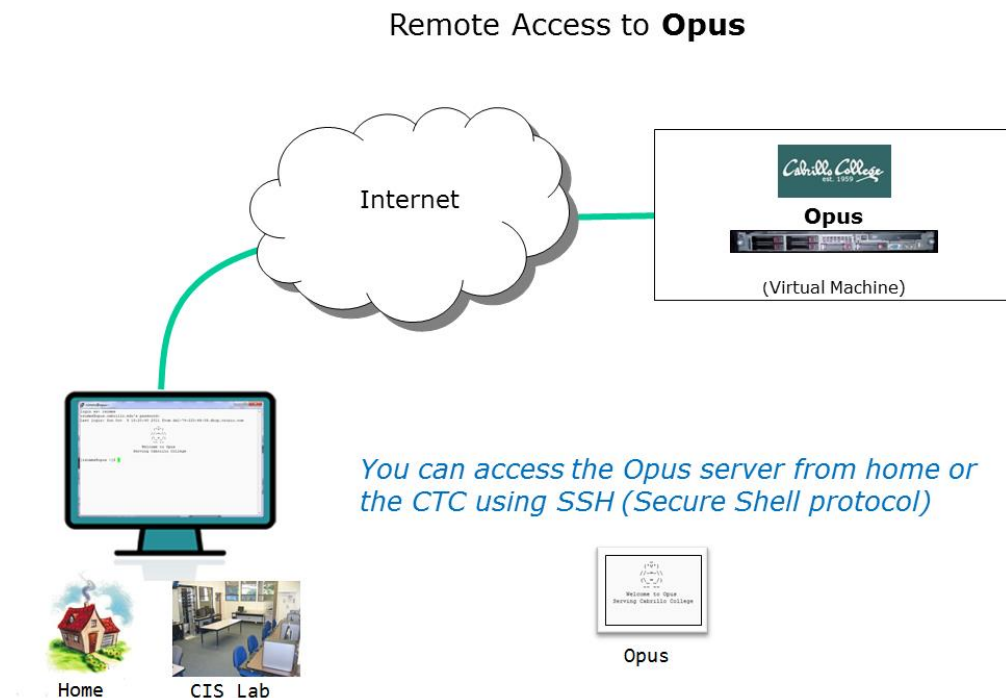
## Remote Access to Opus (AKA OSLab) (142)

This Howto shows how to remotely access the Opus Linux server on campus. Opus is used for doing and submitting lab assignments. You will hear this server referred to as either Opus or OSLab. Internally we use Opus. However on the Internet this server is known as OSLab.

### Supplies

- Windows PC or Mac
- A reasonably fast Internet connection

### Overview



From home you will use the SSH Protocol file to access the **Opus** server on the Aptos campus. SSH is already installed on Macs and Linux systems. Mac and Linux users use the ssh command from a terminal. Windows users however must download and install PuTTY.

## Mac Users

### Step 1 – Connect to Opus

Run the Mac terminal and issue this command using your Opus username:

```
ssh -p 2220 username@oslab.cishawks.net
```

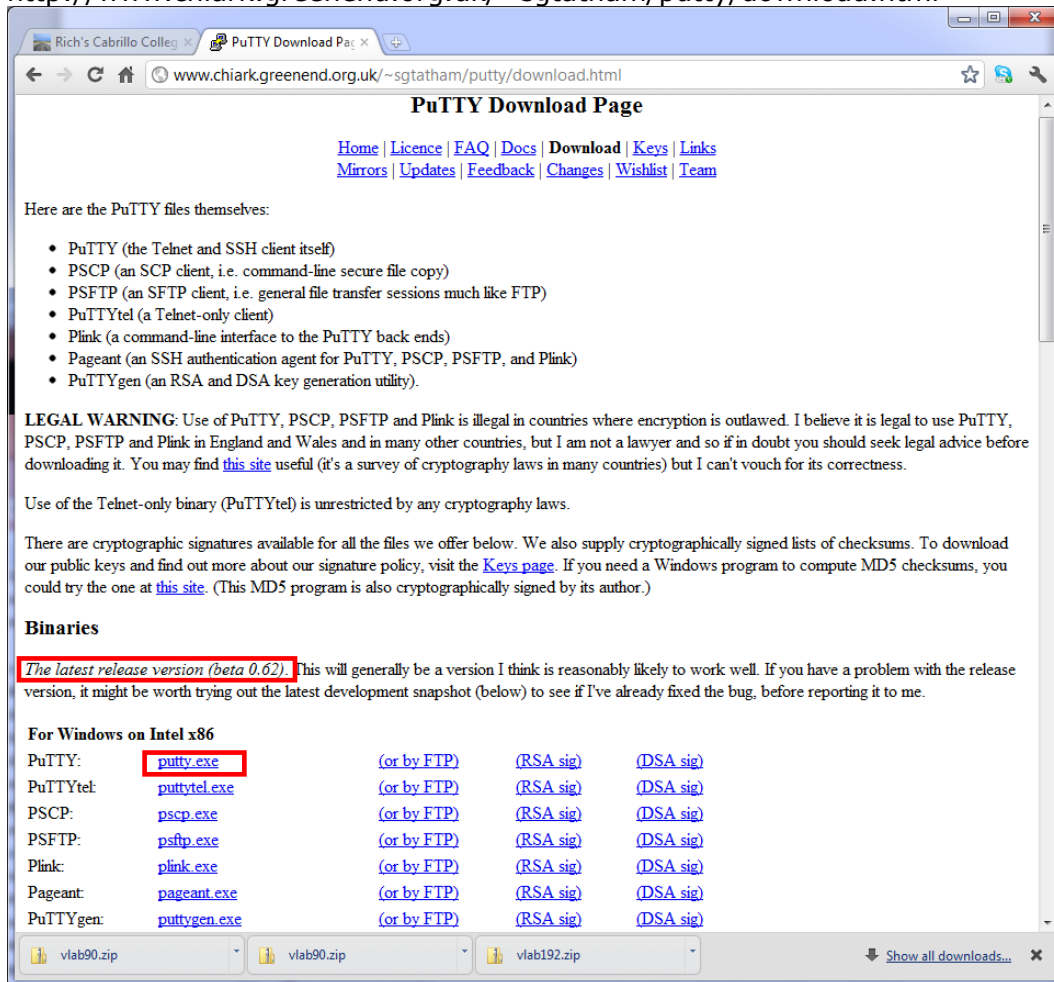
Skip the next section on Windows and go to the *Login for All Users* section below.

## Windows Users

### Step 1 – Download and install PuTTY

Browse to the PuTTY Download Page site and then scroll down till you see the latest release version of the binaries.

<http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>



The screenshot shows a web browser window displaying the PuTTY Download Page. The page title is "PuTTY Download Page" and the URL is "www.chiark.greenend.org.uk/~sgtatham/putty/download.html". The page contains a list of PuTTY files, a legal warning, and a section for Windows binaries. The "putty.exe" file is highlighted with a red box.

Rich's Cabrillo Colleg x PuTTY Download Paç x

www.chiark.greenend.org.uk/~sgtatham/putty/download.html

### PuTTY Download Page

[Home](#) | [Licence](#) | [FAQ](#) | [Docs](#) | [Download](#) | [Keys](#) | [Links](#)  
[Mirrors](#) | [Updates](#) | [Feedback](#) | [Changes](#) | [Wishlist](#) | [Team](#)

Here are the PuTTY files themselves:

- PuTTY (the Telnet and SSH client itself)
- PSCP (an SCP client, i.e. command-line secure file copy)
- PSFTP (an SFTP client, i.e. general file transfer sessions much like FTP)
- PuTTYtel (a Telnet-only client)
- Plink (a command-line interface to the PuTTY back ends)
- Pageant (an SSH authentication agent for PuTTY, PSCP, PSFTP, and Plink)
- PuTTYgen (an RSA and DSA key generation utility).

**LEGAL WARNING:** Use of PuTTY, PSCP, PSFTP and Plink is illegal in countries where encryption is outlawed. I believe it is legal to use PuTTY, PSCP, PSFTP and Plink in England and Wales and in many other countries, but I am not a lawyer and so if in doubt you should seek legal advice before downloading it. You may find [this site](#) useful (it's a survey of cryptography laws in many countries) but I can't vouch for its correctness.

Use of the Telnet-only binary (PuTTYtel) is unrestricted by any cryptography laws.

There are cryptographic signatures available for all the files we offer below. We also supply cryptographically signed lists of checksums. To download our public keys and find out more about our signature policy, visit the [Keys page](#). If you need a Windows program to compute MD5 checksums, you could try the one at [this site](#). (This MD5 program is also cryptographically signed by its author.)

### Binaries

**The latest release version (beta 0.62).** This will generally be a version I think is reasonably likely to work well. If you have a problem with the release version, it might be worth trying out the latest development snapshot (below) to see if I've already fixed the bug, before reporting it to me.

#### For Windows on Intel x86

PuTTY:	<a href="#">putty.exe</a>	<a href="#">(or by FTP)</a>	<a href="#">(RSA sig)</a>	<a href="#">(DSA sig)</a>
PuTTYtel:	<a href="#">puttytel.exe</a>	<a href="#">(or by FTP)</a>	<a href="#">(RSA sig)</a>	<a href="#">(DSA sig)</a>
PSCP:	<a href="#">pscp.exe</a>	<a href="#">(or by FTP)</a>	<a href="#">(RSA sig)</a>	<a href="#">(DSA sig)</a>
PSFTP:	<a href="#">psftp.exe</a>	<a href="#">(or by FTP)</a>	<a href="#">(RSA sig)</a>	<a href="#">(DSA sig)</a>
Plink:	<a href="#">plink.exe</a>	<a href="#">(or by FTP)</a>	<a href="#">(RSA sig)</a>	<a href="#">(DSA sig)</a>
Pageant:	<a href="#">pageant.exe</a>	<a href="#">(or by FTP)</a>	<a href="#">(RSA sig)</a>	<a href="#">(DSA sig)</a>
PuTTYgen:	<a href="#">puttygen.exe</a>	<a href="#">(or by FTP)</a>	<a href="#">(RSA sig)</a>	<a href="#">(DSA sig)</a>

vlab90.zip vlab90.zip vlab192.zip Show all downloads...

There are two PuTTY downloads. One is the latest release version and the other is a development snapshot. Download the latest release version which is more stable.

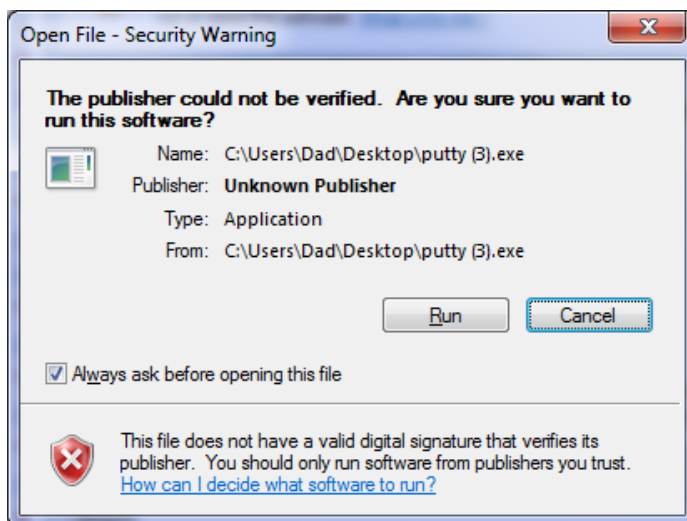
Save the downloaded file to your desktop so you can find it again.

## Step 2 – Connect to Opus

Find the downloaded file and double-click it to run. If you did not save the file to the desktop you can make a shortcut (right-click on putty.exe) and drag the shortcut to the desktop or Start button.



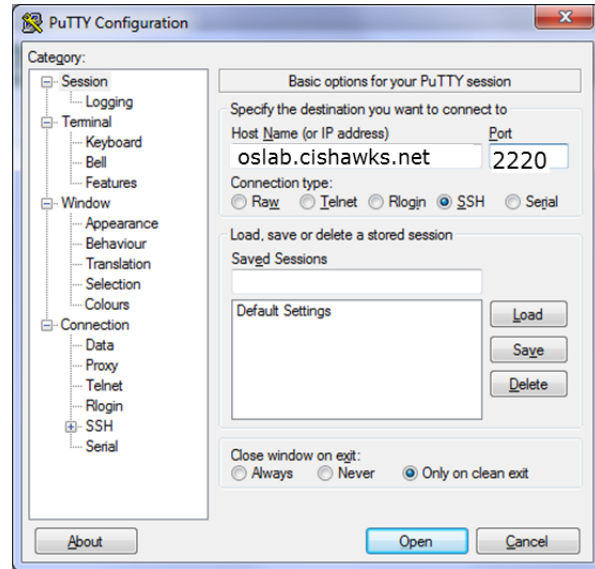
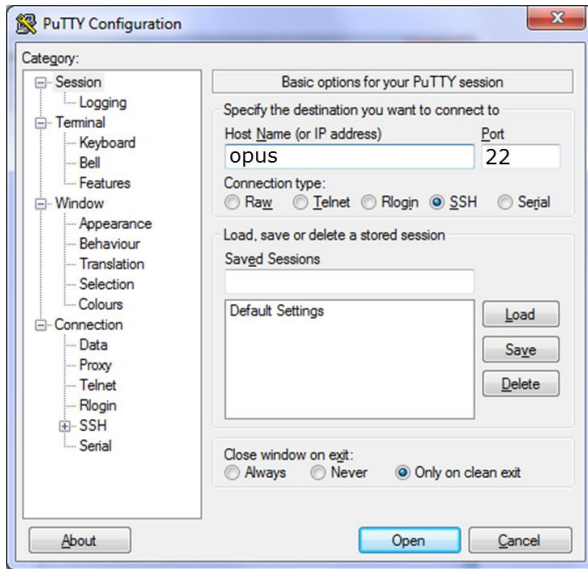
You may see this warning:



Click on Run to continue

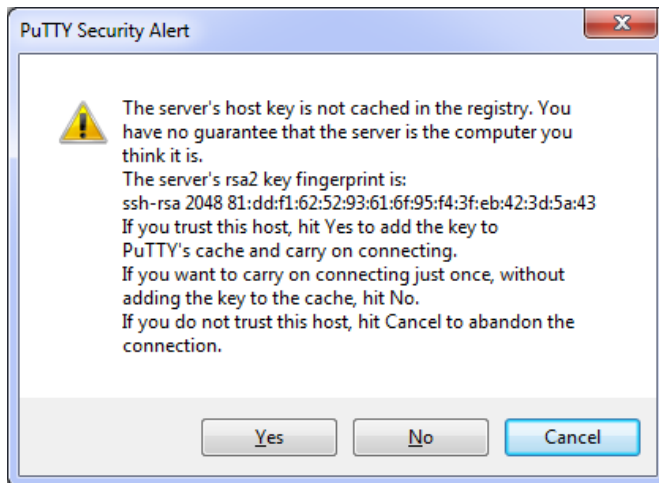
From CIS Lab and classroom use  
Host Name: **opus**  
and Port: 22

From everywhere else use  
Host Name: **oslab.cishawks.net**  
and Port: **2220**



Click Open to continue

You may see a warning like this:



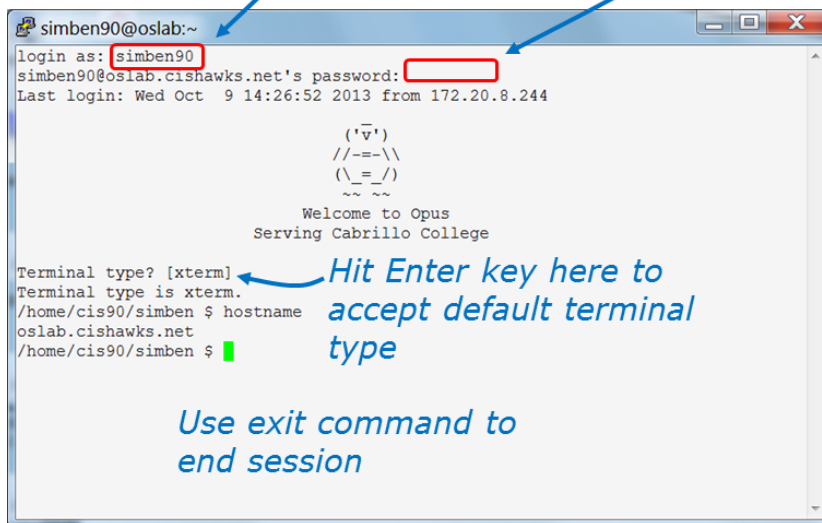
Click Yes to continue

## Login for All Users

Use your own Opus username and password to login

**username**

**password**  
(not echoed)



```
simben90@oslab:~  
login as: simben90  
simben90@oslab.cishawks.net's password:  
Last login: Wed Oct 9 14:26:52 2013 from 172.20.8.244  
  
      ( 'v' )  
    //---\ \  
   ( \ _ / )  
    ~ ~ ~  
Welcome to Opus  
Serving Cabrillo College  
  
Terminal type? [xterm] Hit Enter key here to  
Terminal type is xterm. accept default terminal  
/home/cis90/simben $ hostname type  
oslab.cishawks.net  
/home/cis90/simben $ █  
  
Use exit command to  
end session
```

Note, you may get white text on a black background. The image above had PuTTY settings customized to show black text on an off-white background.

When finished, type the **exit** command. This will log you off and automatically disconnect.