

¿Qué se necesita para entrar a dana?

- ¿Qué se necesita para entrar a dana?
- Una cuenta en dana
- Un par de claves:
 - Clave pública
 - Clave privada

¿Qué se necesita para entrar a dana?

- ¿Cómo generar las claves?
 - Hay varias formas
 - Desde:
 - Consola **Bash**
 - Linux
 - Mac
 - Windows10
 - **Cygwin**
 - **Windows**
 - Programas tipo **Putty**: cliente telnet y ssh

¿Qué es Cygwin?

- **Cygwin** es una colección de herramientas desarrollada por Cygnus Solutions para proporcionar un comportamiento similar a los sistemas Unix en Microsoft Windows. Su objetivo es portar software que ejecuta en sistemas POSIX a Windows con una recompilación a partir de sus fuentes.
- O dicho de otro modo, permite disponer de una consola “*Bash*” en un entorno Windows
- La consola no es gráfica

Cygwin

Cygwin

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Cygwin

Get that [Linux](#) feeling - on Windows

This is the home of the Cygwin project

What...

...is it?

Cygwin is:

- a large collection of GNU and Open Source tools which provide functionality similar to a [Linux distribution](#) on Windows.
- a DLL (cygwin1.dll) which provides substantial POSIX API functionality.

...isn't it?

Cygwin is not:

- a way to run native Linux apps on Windows. You must rebuild your application *from source* if you want it to run on Windows.
- a way to magically make native Windows apps aware of UNIX® functionality like signals, ptys, etc. Again, you need to build your apps *from source* if you want to take advantage of Cygwin functionality.

The Cygwin DLL currently works with all recent, commercially released x86 32 bit and 64 bit versions of Windows, starting with Windows Vista. For more information see the [FAQ](#).

NOTE: As [previously announced](#), Cygwin version [2.5.2](#) was the last version supporting Windows XP and Server 2003. ([Instructions for obtaining that version](#))

Current Cygwin DLL version

The most recent version of the Cygwin DLL is [2.6.1](#). Install it by running [setup-x86.exe](#) (32-bit installation) or [setup-x86_64.exe](#) (64-bit installation).

Use the setup program to perform a [fresh install](#) or to [update](#) an existing installation.

Note that individual packages in the distribution are updated separately from the DLL so the Cygwin DLL version is not useful as a general Cygwin distribution release number.

Support for Cygwin

For **all** Cygwin-related questions and observations, please check the resources available at this site, such as the [FAQ](#), the [User's Guide](#) and the [mailing list archives](#). If you've exhausted these resources then please send email to an [appropriate mailing list](#). This includes observations about web pages, setup questions, questions about where to find things, questions about why things are done a certain way, questions about the color preferences of Cygwin developers, questions about the meaning of the number 42, etc.

Please send notification of technical problems (bad html, broken links) concerning these web pages to [the Cygwin mailing list](#).

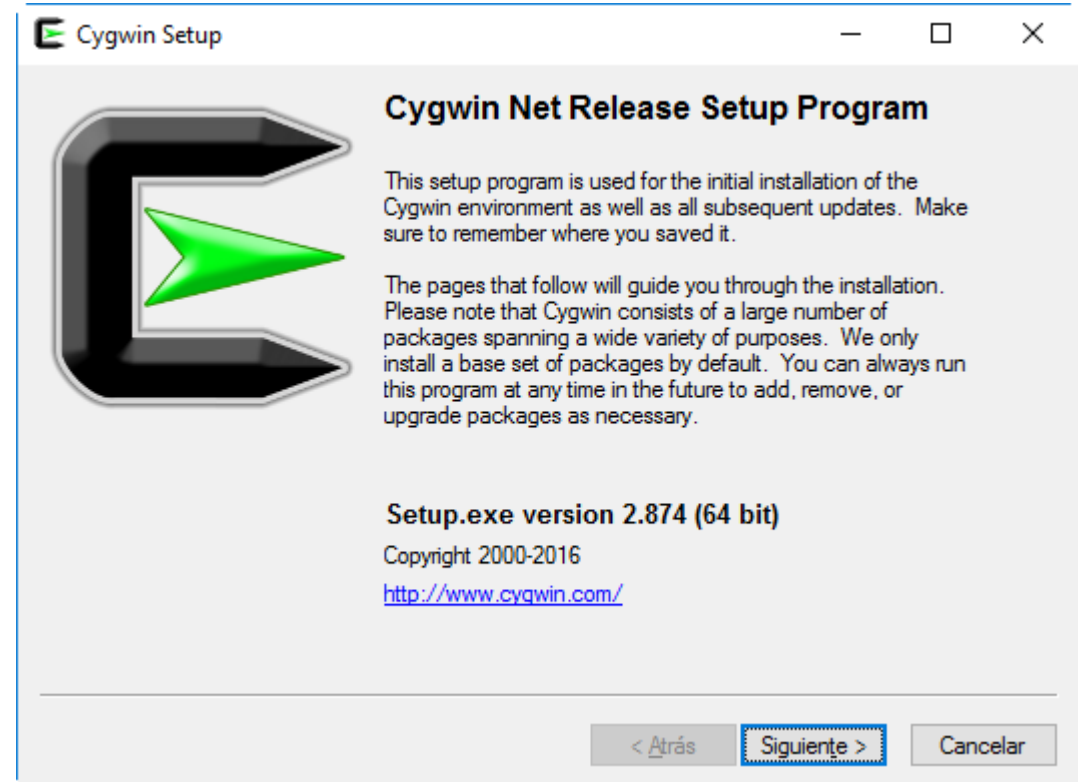
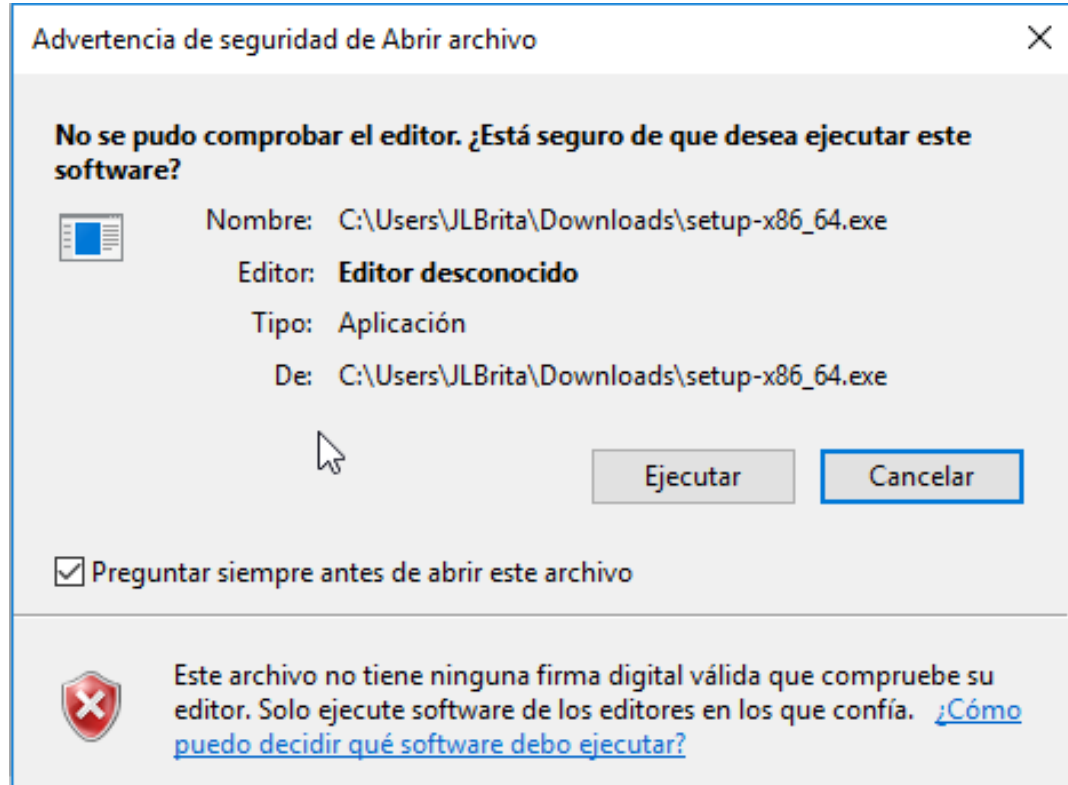
Please **do not** send personal email with "quick questions" to individual Cygwin contributors. The Cygwin mailing lists are the places for all questions. Really. I mean it.

The Cygwin DLL and utilities are Copyright © Cygwin authors. Other packages have other copyrights.

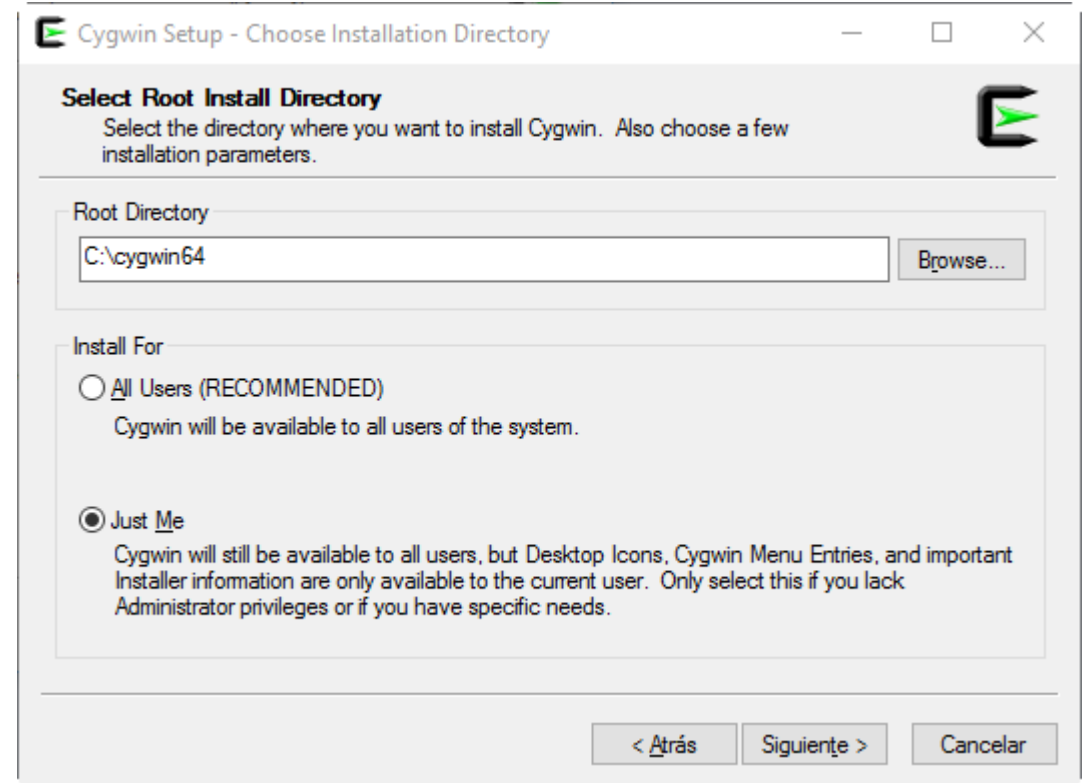
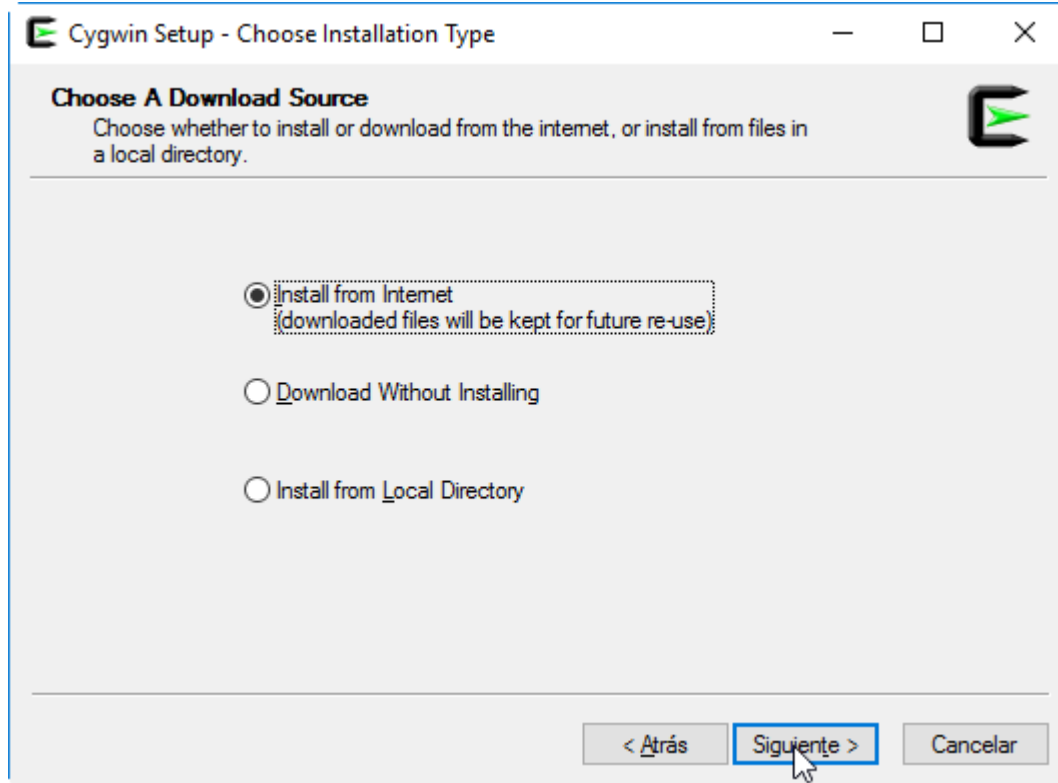
Instalar Cygwin (I)

- La dirección: <https://www.cygwin.com/>
- Descargar:
 - [setup-x86_64.exe](#) (64-bit installation)
 - [setup-x86.exe](#) (32-bit installation)
- Es preferible instalar el de 64-bit, aunque el procedimiento es el mismo
- Al ejecutar el fichero [setup-x86_64.exe](#) se obtiene

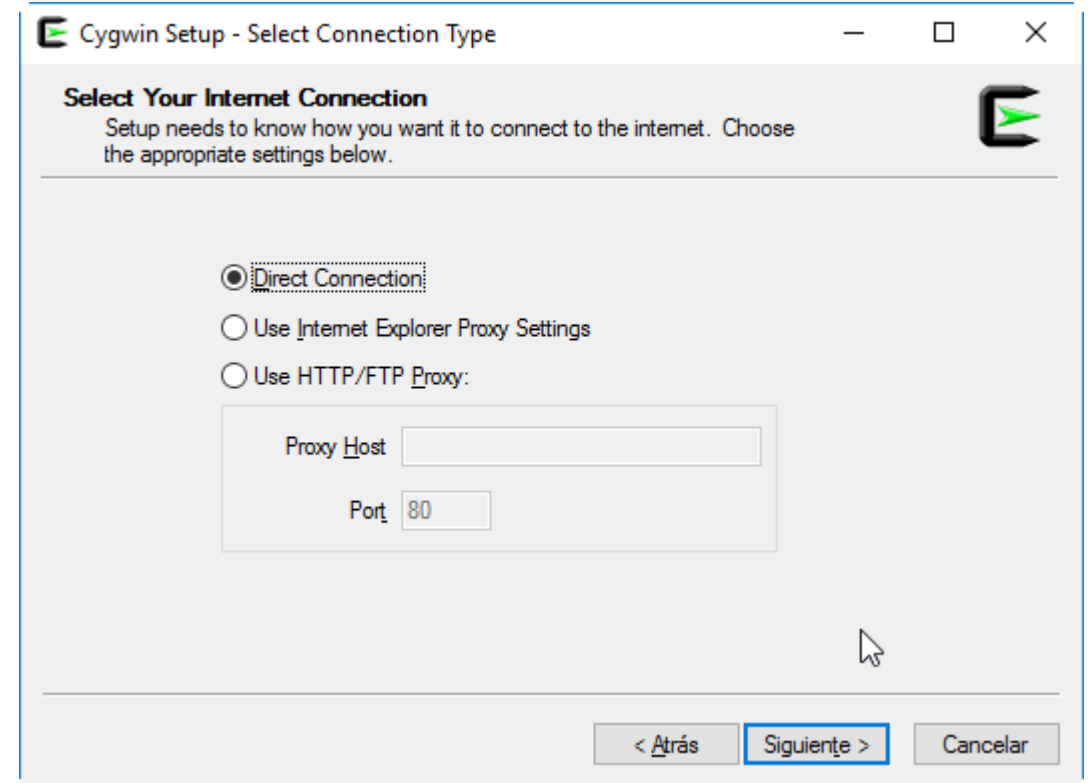
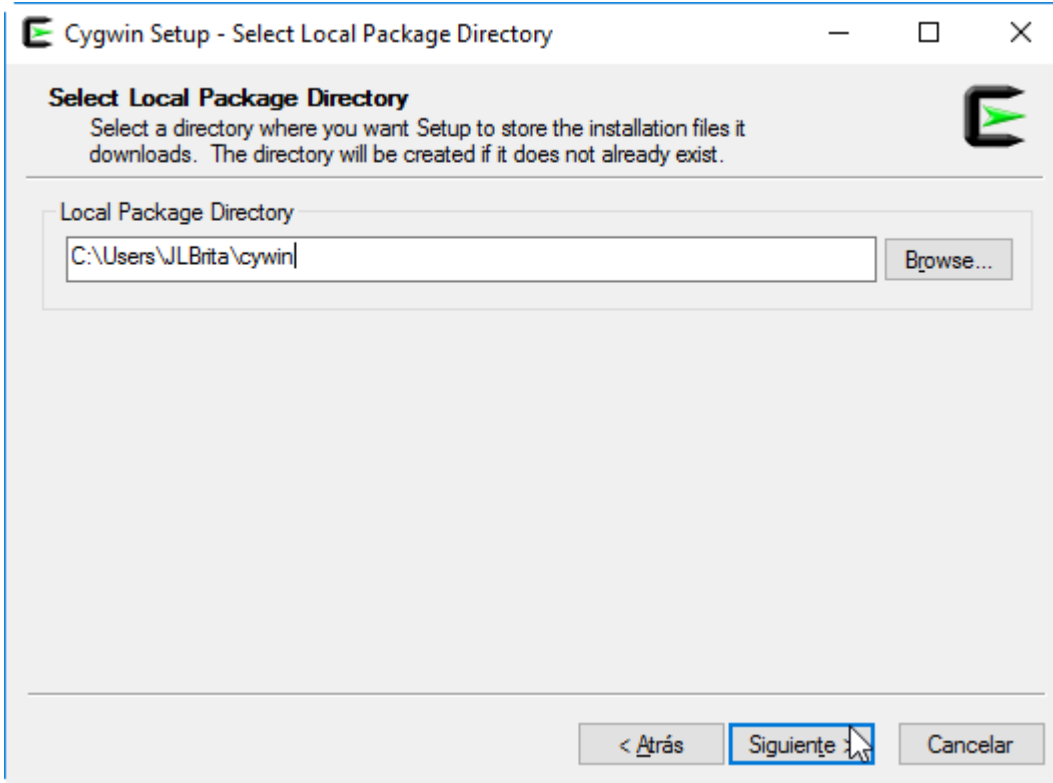
Instalar Cygwin (II)



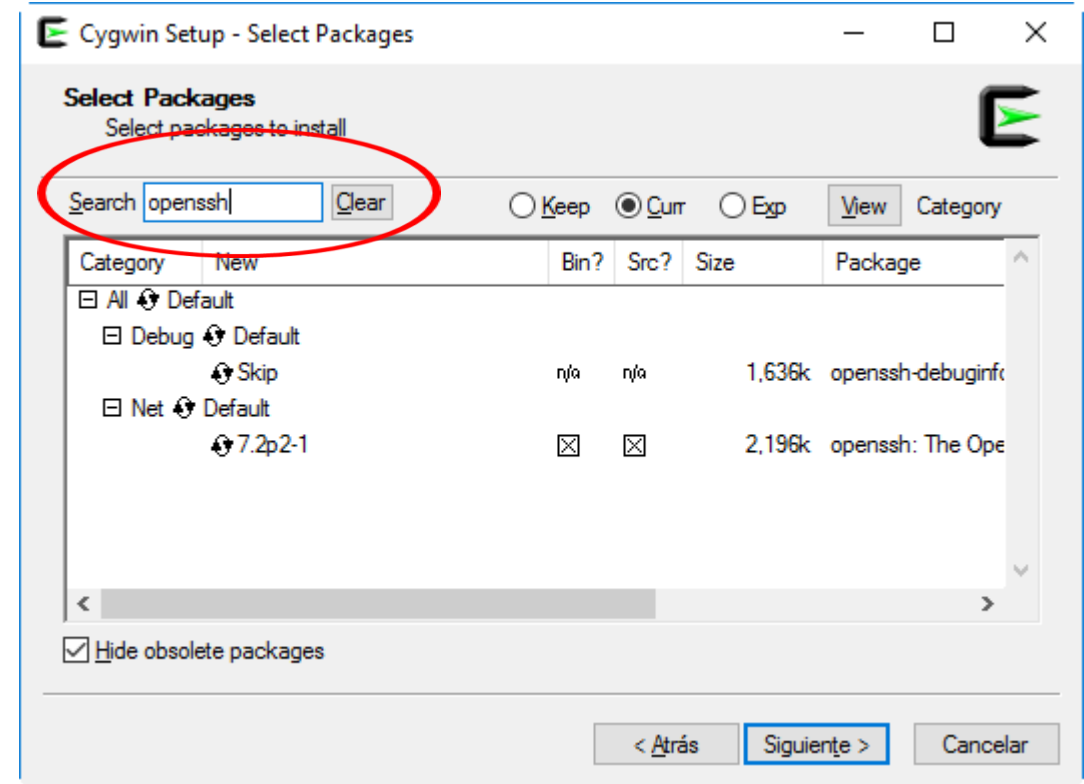
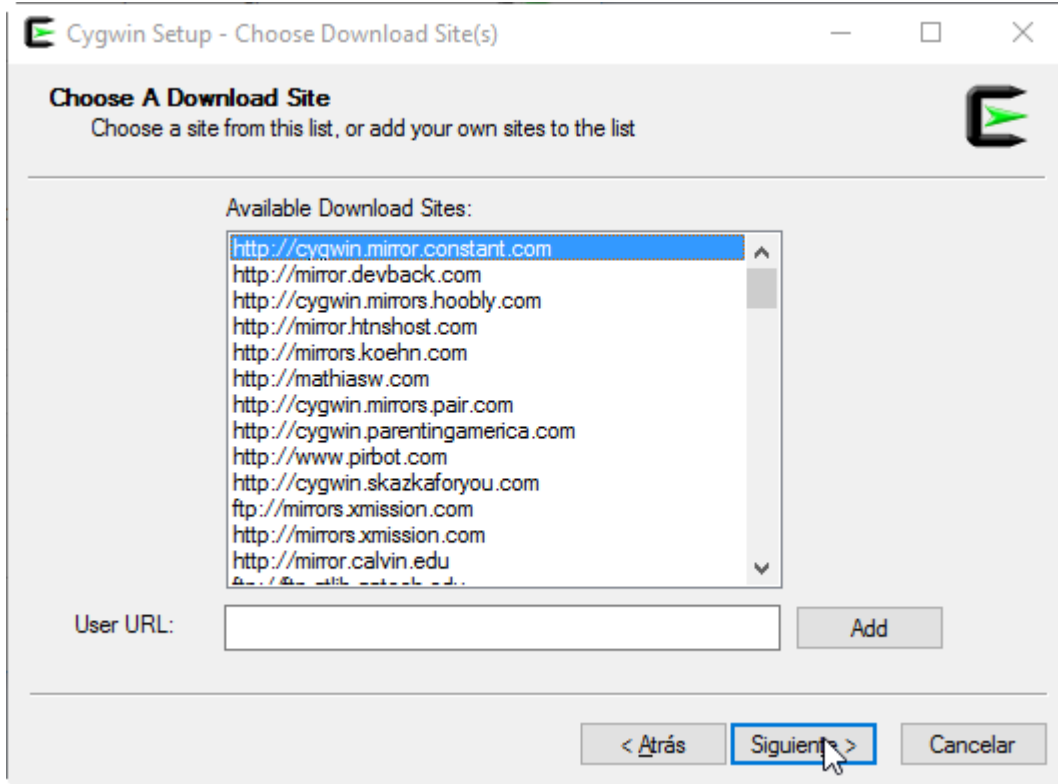
Instalar Cygwin (III)



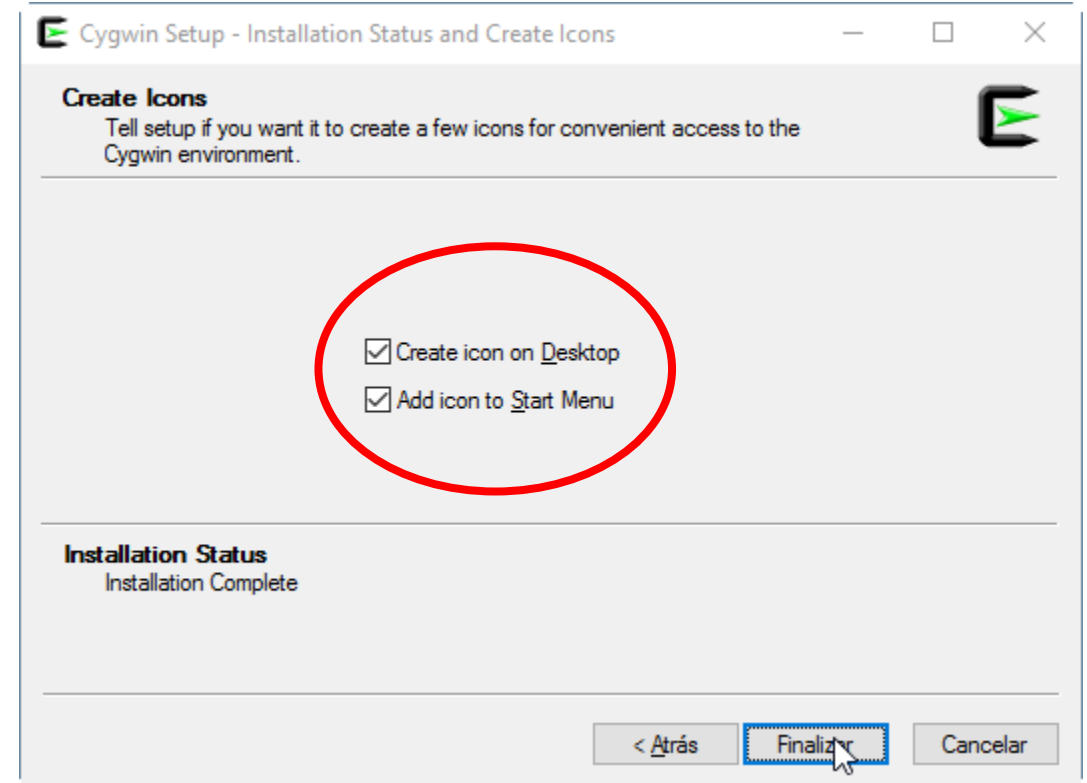
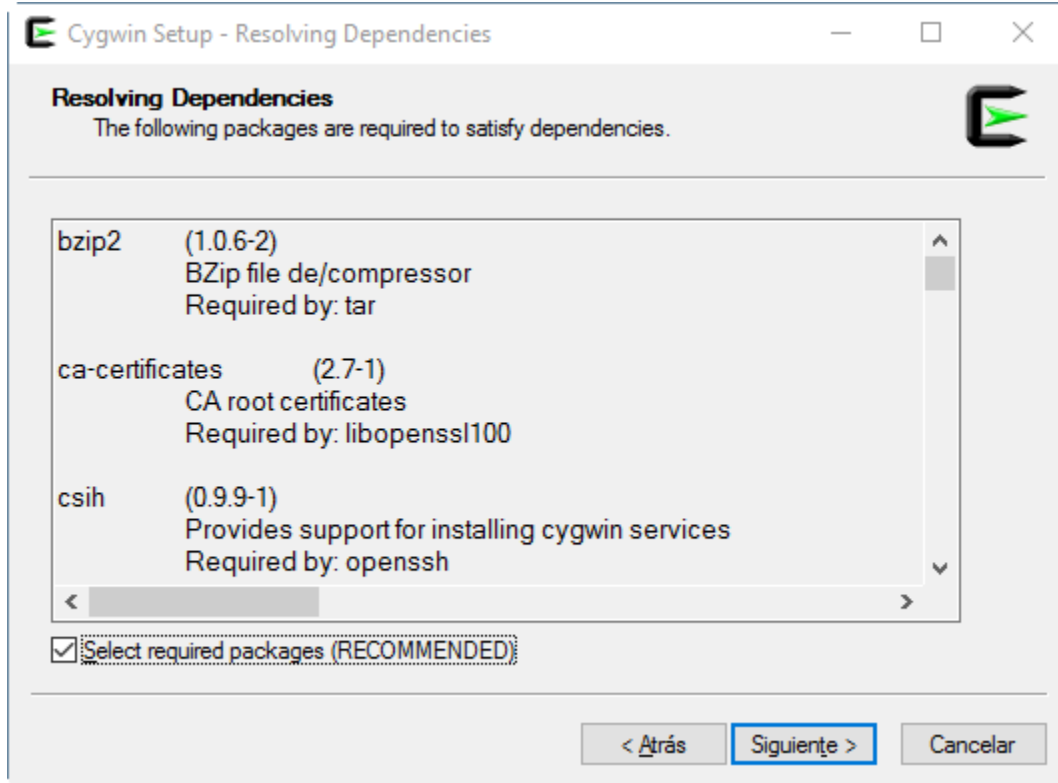
Instalar Cygwin (IV)



Instalar Cygwin (V)



Instalar Cygwin (VI)



Instalar Cygwin (VII)

- En Cygwin elegiremos el Shells Bash(B)
- Es fundamental instalar el paquete “**openssh**” que es el que nos permitirá generar las claves para entrar en **dana**
- Para instalar algún otro paquete o bien si hemos olvidado marcar el “**openssh**” solo hay que repetir el proceso de instalación
- Puede ser interesante instalar algún editor sencillo como el “nano”
- Paciencia, tarda un poco de tiempo en instalarse

Crear el par de claves (I)

- Generando las claves en Linux, Cygwin por medio de OpenSSH

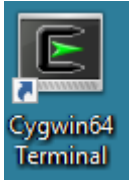
```
$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/jlbrita/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/jlbrita/.ssh/id_rsa.
Your public key has been saved in /home/jlbrita/.ssh/id_rsa.pub.
The key fingerprint is:
```

- Hay que tener en cuenta que si le especificamos una *passphrase*, tendremos que introducirla manualmente cada vez que queramos usar la clave privada, por lo que la autenticación no será transparente. Por ello, para nuestro propósito es necesario dejarla en blanco.

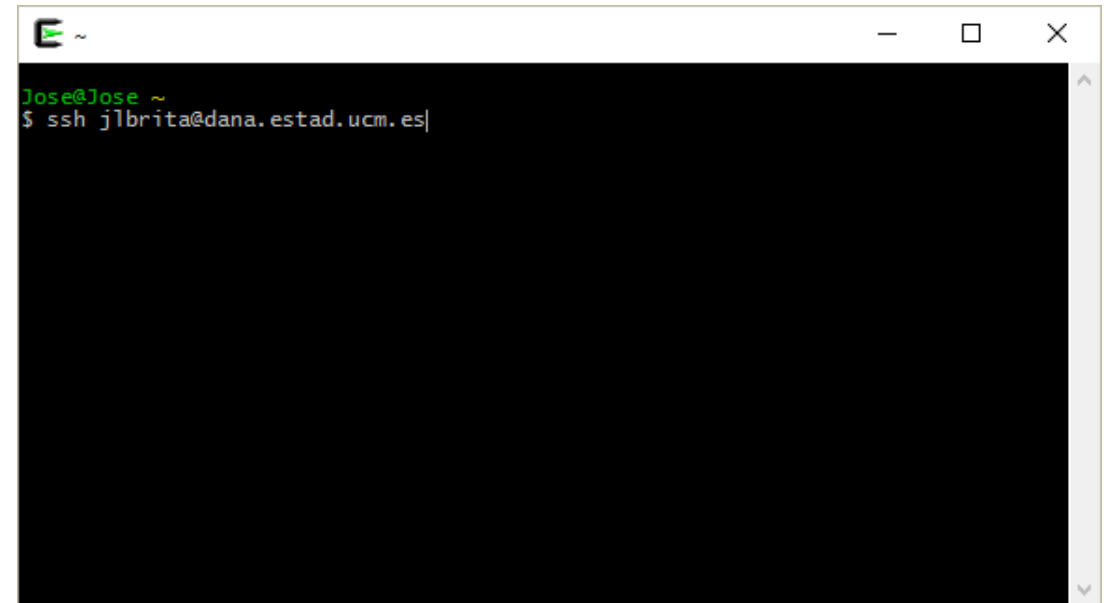
Crear el par de claves (II)

- Copiar la clave publica en el servidor
 - Falta copiar la clave publica en el servidor al que queremos conectarnos.
 - Copiarla en un pendrive, enviarla por correo
 - Al introducirla en el servidor se creara la cuenta y se validará el nuevo usuario

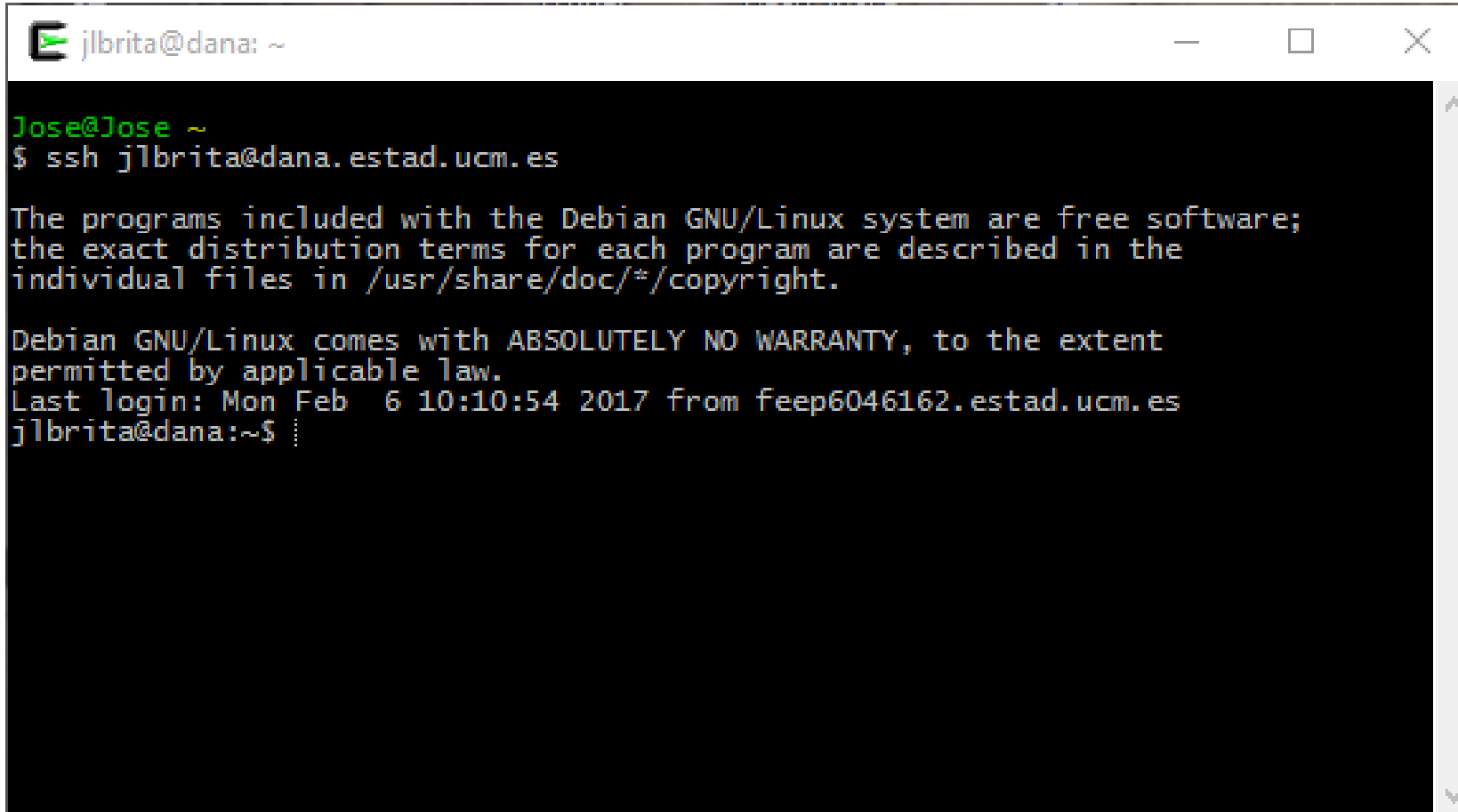
Ejecutar Cygwin (I)



- Al ejecutar el Cygwin aparece la ventana siguiente



Ejecutar Cygwin (II)



```
jlbrita@dana: ~  
  
Jose@Jose ~  
$ ssh jlbrita@dana.estad.ucm.es  
  
The programs included with the Debian GNU/Linux system are free software;  
the exact distribution terms for each program are described in the  
individual files in /usr/share/doc/*/copyright.  
  
Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent  
permitted by applicable law.  
Last login: Mon Feb  6 10:10:54 2017 from feep6046162.estad.ucm.es  
jlbrita@dana:~$
```