Control Linux & Unix from remote Windows by using Cygwin-X

Shane

2013-3

1. Setup Environment

Check the IP of the windows PC which you want it to be a master to control linux(unix):

Use ipconfig in CMD, My IP : *9.24.211.84 (IP of VOTTMAQCW2k8-01)*

Tools used:

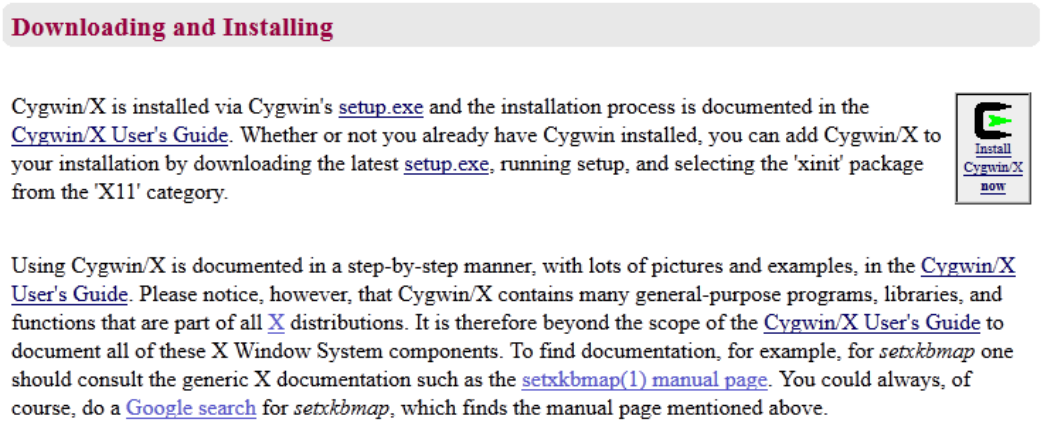
To control Linux &Unix remotely, an X-windows management tool is needed. There are some kinds of these tools, such as

- Hummingbird exceed
- X-manager
- **Cygwin-X**

The first two are commercial software, that means our company has to pay for it. So the last one, which is a Cygwin based open source software, is a good tool to begin our task.

Install Cygwin-X:

A. Download Cgywin-X from http://x.cygwin.com/



Downloading and Installing

Cygwin/X is installed via Cygwin's setup.exe and the installation process is documented in the Cygwin/X User's Guide. Whether or not you already have Cygwin installed, you can add Cygwin/X to your installation by downloading the latest setup.exe, running setup, and selecting the 'xinit' package from the 'X11' category.

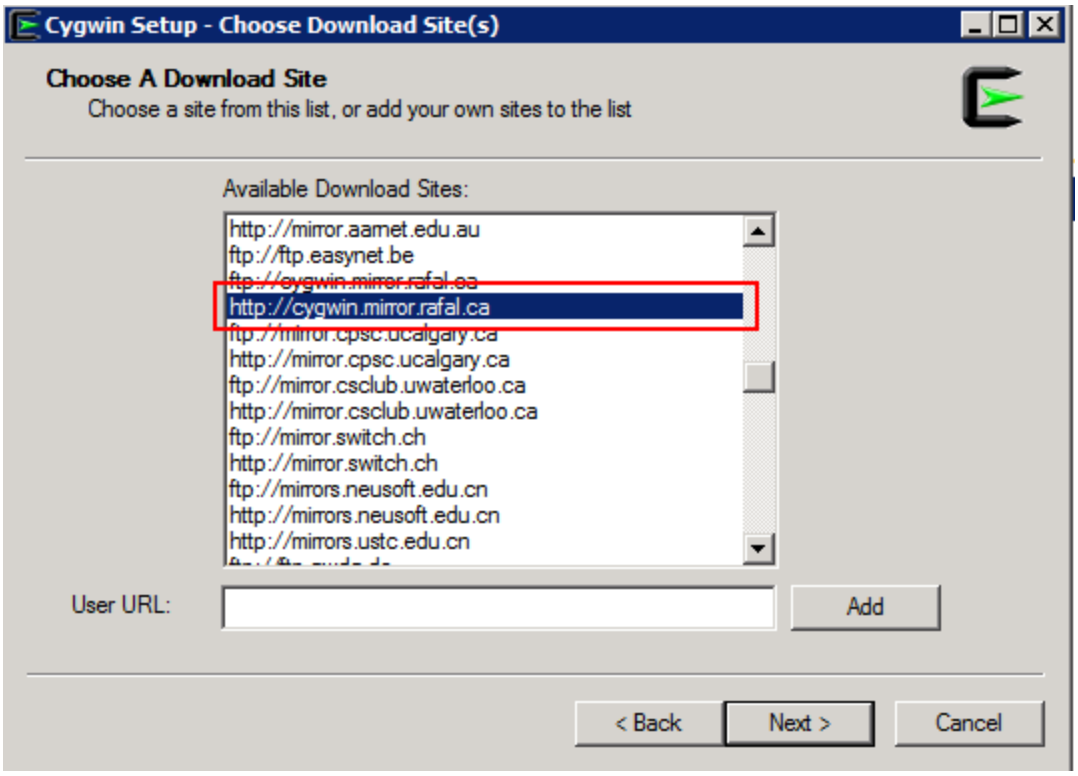
Install Cygwin/X now

Using Cygwin/X is documented in a step-by-step manner, with lots of pictures and examples, in the Cygwin/X User's Guide. Please notice, however, that Cygwin/X contains many general-purpose programs, libraries, and functions that are part of all X distributions. It is therefore beyond the scope of the Cygwin/X User's Guide to document all of these X Window System components. To find documentation, for example, for *setxkbmap* one should consult the generic X documentation such as the setxkbmap(1) manual page. You could always, of course, do a Google search for *setxkbmap*, which finds the manual page mentioned above.

B. Install Cygwin-X on your Windows according to the guide on the following link: http://x.cygwin.com/docs/ug/setup.html

C. Some important tips when Install Cygwin-X:

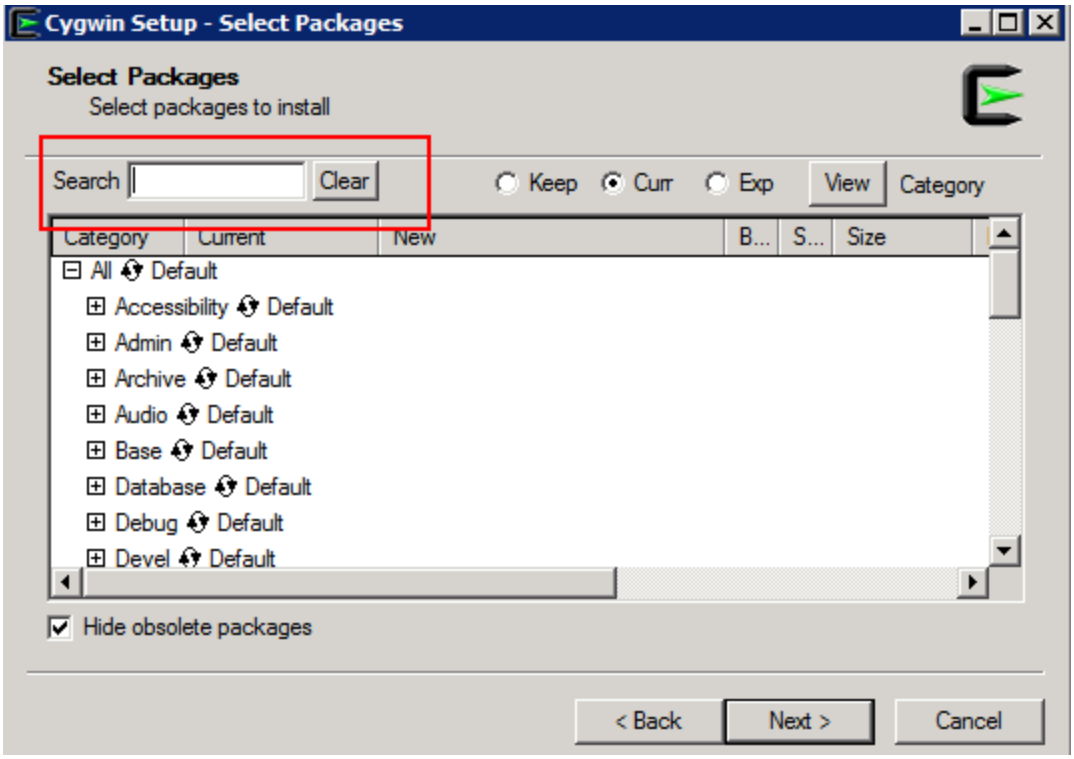
1) Choose A Download Site:



2) Choose which Pkg to install:
There are 5 pkg must be installed manually in the following , others are installed by default:

xorg-server
xinit
X-start-menu-icons
xhost
netutils
openssh

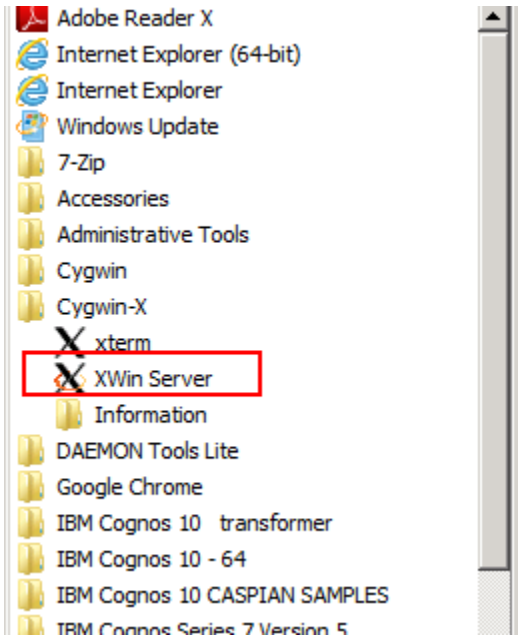
You can search this Pkg in the search box in the following :



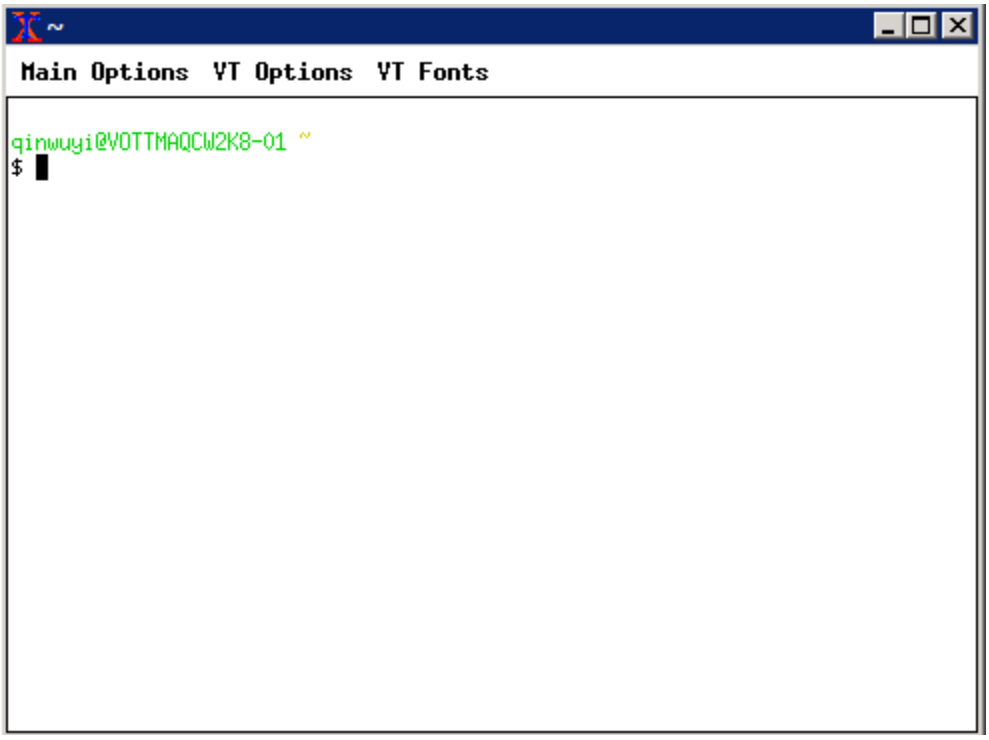
3) Wait till the pkgs downloaded and Installed.

2. Use Cygwin-X connect Linux(Unix)

Open XWin-server



Open an Xterm.



Type command to connect to linux(unix).

How to use Xterm to control Linux:

Take an AIX in Unix boxes for emple:

Name**:** ***dal-bandar.ottawa.ibm.com***

User : ***crnqc***

Password: ***trip2.jak***

Step 1: Add the linux as a host to X-sever

```
qinwuyi@VOTTMAQCW2K8-01 ~
$ xhost +  dal-bandar.ottawa.ibm.com
```

Step 2: ssh this AIX server use **[username]** = ***crnqc***

```
qinwuyi@VOTTMAQCW2K8-01 ~
$ ssh crnqc@dal-bandar.ottawa.ibm.com
```

Enter the password for ***crnqc***

The following will appear which indicates you are logged on

```
qinwuyi@VOTTMAQCW2K8-01 ~
$ ssh crnqc@dal-bandar.ottawa.ibm.com
crnqc@dal-bandar.ottawa.ibm.com's password:
*******************************************************************************
*
*
*  Welcome to AIX Version 7.1!
*
*
*  Please see the README file in /usr/lpp/bos for information pertinent to
*  this release of the AIX Operating System.
*
*
*******************************************************************************
Testing of the cshrc file.....
Logging into AIX Server...
JAVA_HOME=/unsupported/java/caspianrp1/7.0SR2/jre
dal-bandar:/home/crnqc>
```

Step 3: Change the shell type to bash using:

```
dal-bandar:/home/crnqc>bash
(crnqc)@dal-bandar:~$
```

Type "bash" Enter, then you will see the above that the shell has been changed to bash.
(Note: Unix use Ksh or csh as defult. The command has difference. Use :
"echo $SHELL" to discover which shell is set defualt)

Step 4: Set Environment Variables:
There are two variables need to be set. *JAVA_HOME* , *DISPLAY.*
To set java home:
when in Bash, use export command:

```
(crnqc)@dal-bandar:~$ export JAVA_HOME=/unsupported/java/caspianrp1/7.0SR2/jre
```

When in others, like csh, use setenv command, ***Please note the difference***

```
dal-bandar:/home/crnqc>setenv JAVA_HOME /unsupported/java/caspianrp1/7.0SR2/jre
```

To set display:
First, you should know the IP, in the beginning of the guide. So for my Windows :
In Bash,

```
(crnqc)@dal-bandar:~$ export DISPLAY=9.24.211.84:0.0
```

The the X-windows will be connect to the remote AIX server.

Install BI on Linux(Unix)

1. Create a folder under /<hostname>_1/crnqc/, use your name names the folder, for me (Shane), Create a folder named shane51. The directory in AIX for me is /dal-bandar_1/crnqc/shane51/
2. Copy BI install kit from /builds/caspian/cdsets/caspiancdset/Integration10.2.5000.217/aix64h/compressed/bisrv/

   Us e cp command:

Step 1: cd to /builds/caspian/cdsets/caspiancdset/Integration10.2.5000.217/aix64h/compressed/bisrv/

Step2: copy the install kit to your own folder you create above

```
(crnqc)@dal-bandar:/builds/caspian/cdsets/caspiancdset/Integration10.2.5000.217/
aix64h/compressed/bisrvr$ cp bisrvr_aix64h_10.2.5000.217_ml.tar.gz /dal-bandar_1
/crnqc/shane51/
```

3. cd to /dal-bandar_1/crnqc/shane51/, you will see the install kit appear.

   Use tar command to extract the .gz file, there will be 3 folders, aix64h is the one where install file exists

```
(crnqc)@dal-bandar:/dal-bandar_1/crnqc/shane51$ tar zxvf bisrvr_aix64h_10.2.5000
.214_ml.tar.gz
```

4. Start install:
   cd to /aix64h . run issetup

```
(crnqc)@dal-bandar:/dal-bandar_1/crnqc/shane51/aix64h$ ./issetup
```

5. if JAVA_HOME and DISPLAY are correctly set, install welcome page will show up. then the same to Window platform.

Configuration on Linux(Unix)

1. Start configuration UI.
   there are two ways to start Cognos configuration:
   A: Before finish installation, there is a check box to select whether to start configuration.
   B: If you don't start it on installation, you can cd to <c10_location>/bin64/, run ./ cogconfig.sh
2. use HTTP server.
   HTTP server has a little complex to be configure on Linux, so there is a simple way to use Cognos without HTTP server.

   Step 1: copied the files under <C10_location>/Webcontent/ to <C10_location>/Webapps/p2pd/

   Step 2: start Cognos on http:<servername>:port/p2pd/servlet/dispatch