Updated:2025/12/2

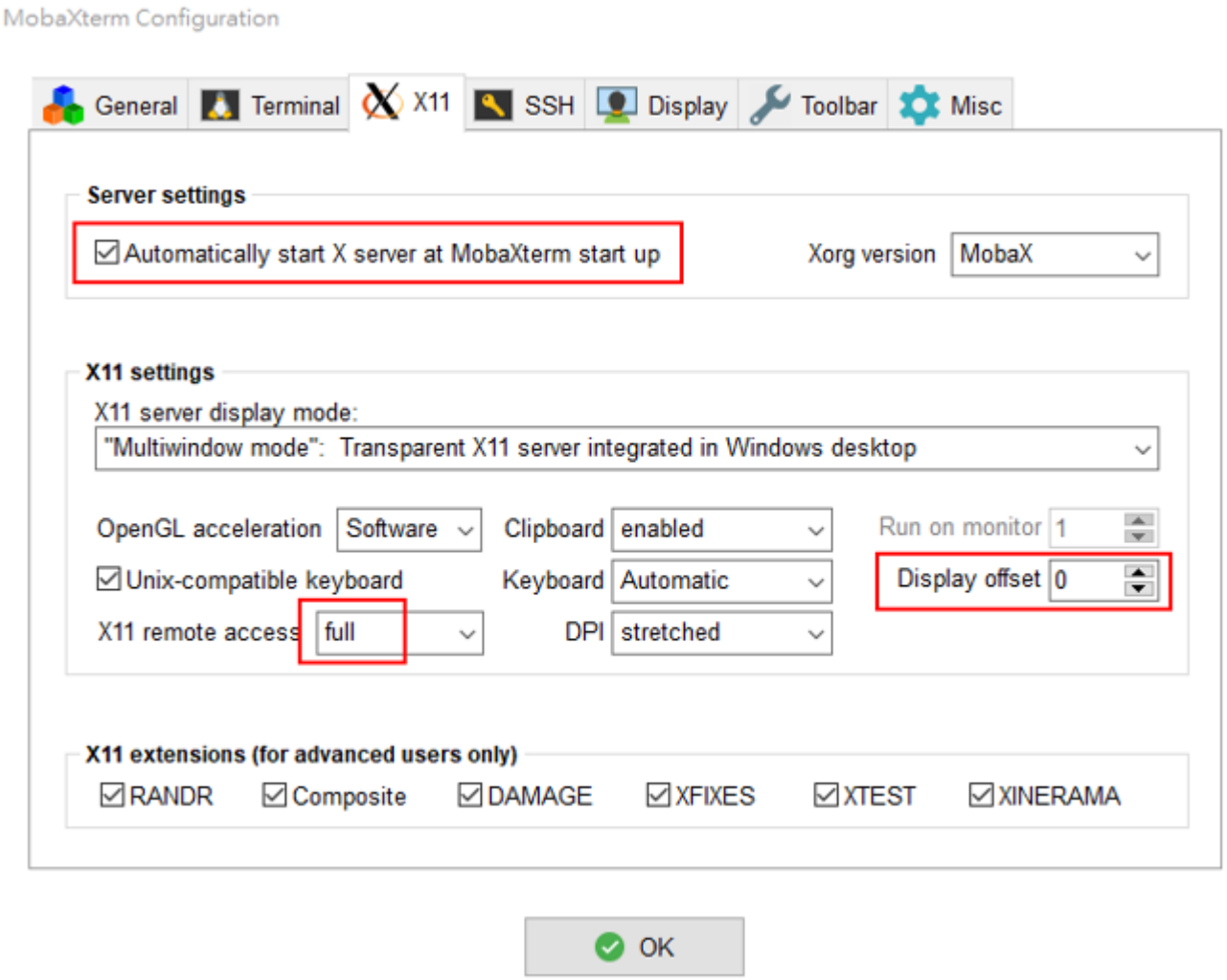
Workstation Usage FAQ

1. How to log in to the workstation?

- In the computer classroom: After turning on the computer, log in to Linux (CentOS), and open the terminal. If long-running tasks are not required, the user can run the CAD Tool on the local machine. If long-running tasks are needed, ssh to the workstation server, e.g., ssh -X ws25 or ssh -X ws25.ee.nthu.edu.tw.
- In the lab: Use remote software to ssh to the ws server, e.g., ssh -X ws25.ee.nthu.edu.tw.
- Off-campus, e.g., at home or dorm: Use remote software to ssh to the jump server, then SSH to the ws server, e.g., ssh -X daisy.ee.nthu.edu.tw, then run ssh -X ws25.ee.nthu.edu.tw.
- Remember to use a capital -X.

2. Unable to display the graphical interface.

- Ensure the use of a remote software with graphical support, such as MobaXterm.
- Recommended MobaXterm graphical settings:



- If the above methods fail, try different versions of Xorg. Each computer device may have a different version, so test the versions sequentially. If one version works, there is no need to test the

others.

- If you continue to experience issues, try temporarily disabling or removing your antivirus software and then attempting the process again.

3. When running software, it shows “command not found?”

- Only the ws simulation server is capable of running the CAD Tool; the jump servers (bigbird, daisy, sb1) cannot execute it.
- All software requires the user to manually load the necessary environment variable files. Please refer to Common Question 5 for more information.

4. How to write commonly used settings into a personal environment variable file?
   Run vim ~/.tcshrc
   Press i to enter insert mode.
   Enter the desired commands or the path to the environment variable file.
   Note that spaces and case sensitivity matter.
   After editing, press ESC, then :wq to save and exit. See the following examples:

i. `[ylchen@ws28 ~]$ vim ~/.tcshrc`

ii. Press i to enter insert mode. Please make sure that `-- 插入 --` or `-- 取代 --` appears in the lower left corner of the window to be edited.

iii. Please enter the required command or provide the environment variable file. For example, source /usr/cadtool/cad/synopsys/CIC/hspice.cshrc

iv. Press ESC, then :x! to save and exit.

5. How to load a CAD Tool environment variable file?

All CAD Tools require loading their environment variable files. Please visit the CAD Tool list to view the paths of these variable files: http://web.ee.nthu.edu.tw/p/405-1175-169285,c4918.php?Lang=zh-tw. After

each login, load the commands once, or add the standard tool path commands to the user's personal environment variable file so they are loaded automatically on subsequent logins. Take hspice, for example:

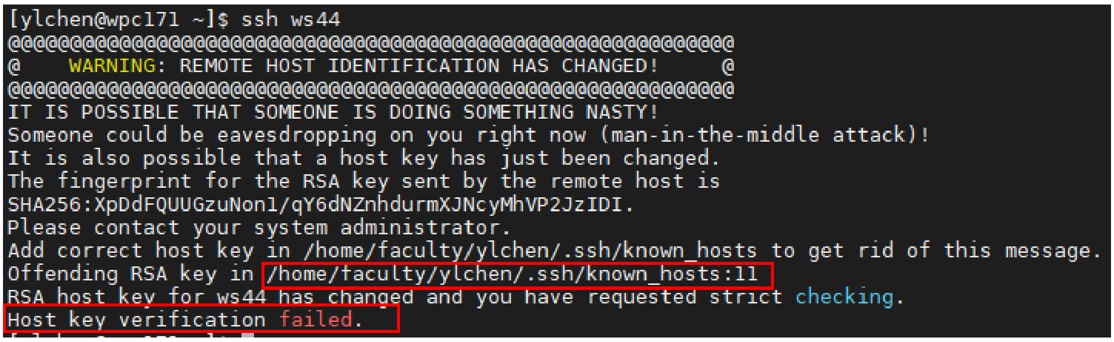
i. vim ~/.tcshrc
ii. Press i to enter edit mode
iii. source /usr/cadtool/cad/synopsys/CIC/hspice.cshrc
iv. Press ESC, then :x! to save and exit; after re-login, the user can run hspice directly.

Please note that there must be a space between the "source" command and the file path.

6. How to operate CAD Tools?

There are many CAD tools, and it is impractical for the network administrator to understand all of them. For class software, ask the course TA. For personal research, consult lab seniors or search online. The CAD Tool list provides the commands to call.

7. How to resolve the "Host Key Verification Failed" error when connecting to Workstation Servers.
This issue occurs because the key for the previously logged-in server does not match the current server's key. Please manually run the command to delete that specific line number.



e.g., if it appears on line 11:
vim /home/faculty/ylchen/.ssh/known_hosts
Please follow the directory path displayed on the user's screen. Each user's path may vary, so please adjust accordingly or vim ~/.ssh/known_hosts
Delete line 11 and save, then re-execute the ssh command.

8. If your account was working normally, but the software stops mid-use or has issues after re-logging, please check if the account's usage capacity is full. Each account quota is 50 GB. Commands du-sm can be used to check total usage. Command du-sm * can check per-directory usage (in units of MB). If you reached your storage quota, please either download your data or delete unnecessary files.

9. When connecting to the server, "Are you sure you want to continue connecting (yes/no)?" may appear. Obtaining a legitimate key is not easy.

```
[ylchen@wpc171 ~]$ ssh ws44
The authenticity of host 'ws44 (140.114.24.118)' can't be established.
ECDSA key fingerprint is SHA256:YQkrXWeytLvxuFAPSRYalIE2jz3tn9yJw89xRw+SRB4.
ECDSA key fingerprint is MD5:b4:43:ab:d4:bf:c4:a8:3d:2e:a6:a6:6c:44:9d:65:22.
Are you sure you want to continue connecting (yes/no)?
```

Please trust it and enter the command “yes” to log in.

10. If the system displays “No such file or directory” or cannot load the personal environment variable file upon login, it requires manual input of loading commands each time to run the CAD Tool.

```
set hspice version: 2020.03-sp2-2 (default)
/usr/cadtool/cadence/cic_setup/ic_06.18.150.: No such file or directory.
```

The above two situations indicate that there is a command error in the personal environment variable file (.tcshrc). If a command has an error, all commands after that line will not execute.
When copying text from Windows to Linux, formatting characters may cause issues that may not be visually detectable. To reduce errors, paste the data into a plain text file, such as Notepad, before copying and pasting it into the Linux interface. If issues continue after saving, please delete the original file and create a new one.

11. The macOS system can install XQuartz to enable the graphical interface for CAD Tools.

For any additional questions or if issues persist, email opr@ee.nthu.edu.tw or call 03-51-31141 to contact the system administrator.