

How to access our Linux server?

Group Linux Server (msg.ecn.purdue.edu)

Prof. Yu's research group at Purdue also has access to a dedicated Linux server with our group specific name: msg.ecn.purdue.edu.

Note the default directory after you login is your ECN home directory, but your home directory in our server is /export/home/a/username or /home/msg/a/username.

Installed Softwares

You can use this server just like any other ECN server and you can access all the ECN supported software such as Abaqus, Ansys, Mathematica, etc. There are some useful tips about how to use ECN server at <https://engineering.purdue.edu/ECN/Support/KB>.

Other softwares only for this server

- VABS (v3.9): VABSIII
- SwiftComp (v2.1): SwiftComp
- Dakota (v6.8): dakota

Remote to the Server

More detailed instructions can be found at:

- [ECN Using Linux Compute Resources](#)
- [ECN Running X Applications via SSH and Xming or Cygwin in Windows](#)

From Windows

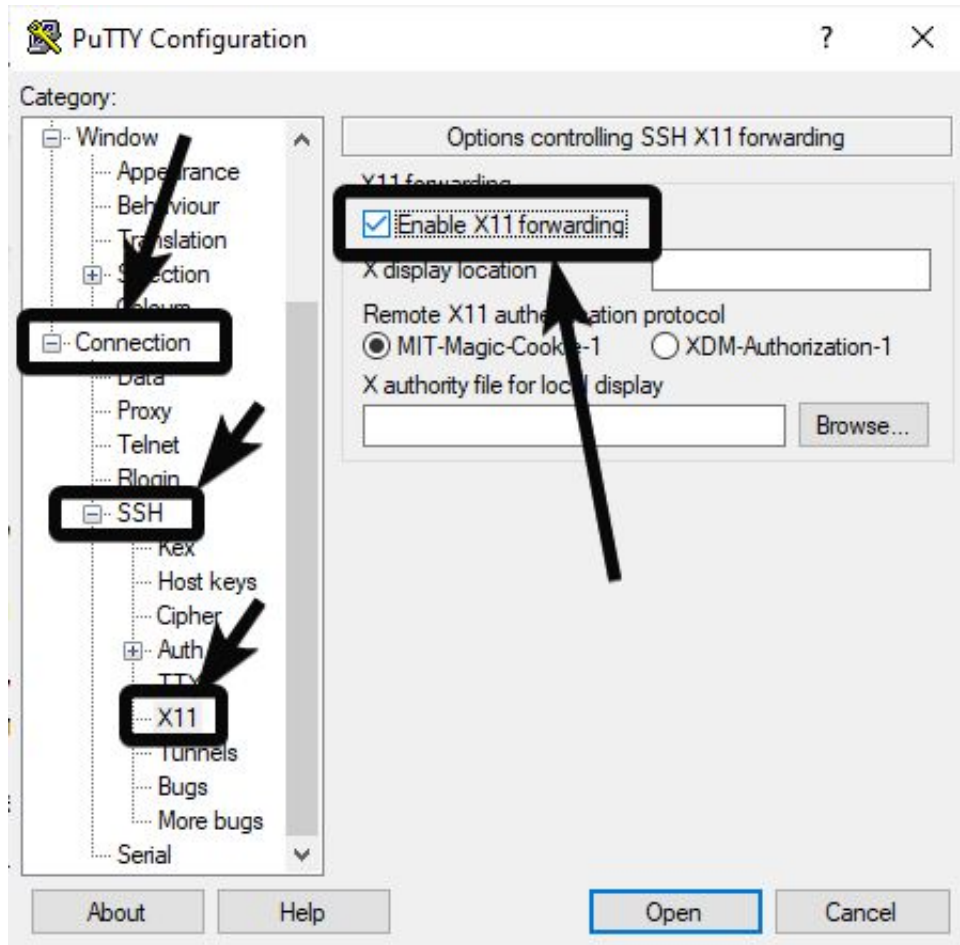
You can access to this server the same way as you access any Purdue ECN linux servers using PuTTY or other software using your Purdue career account name and password.

Tools needed:

- Network: Purdue VPN (Required if off campus network)
- SSH Client: PuTTY or SecureCRT (Required)
- X Windows: Xming or Cygwin (Required if GUI is needed)

To use GUI, enable the 'X11 forwarding':

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From Mac

(will be added later)

System Configuration

To run SwiftComp and VABSIII, you need to add the following line into your startup script. For my account, my startup script is ~/.bash_profile.

For the bash shell:

```
export PATH=/home/msg/a/MSGCodes:$PATH
export LD_LIBRARY_PATH=/opt/intel/16.0.3/lib/intel64:/opt/gcc/7.1.0/lib/intel64:/opt/gcc/7.1.0/lib:/home/roger/a/wenbinyu/src:$LD_LIBRARY_PATH:.
export SG_LICENSE_FILE=29750@arms2142pc2
```

For the csh or tcsh shell:

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```
setenv PATH /home/msg/a/MSGCodes:$PATH
setenv LD_LIBRARY_PATH /opt/intel/16.0.3/lib/intel64:/opt/gcc/7.1.0/lib64:/opt/gcc/7.1.0/lib:/home/roger/a/wenbinyu/src:$LD_LIBRARY_PATH:.
setenv SG_LICENSE_FILE 29750@arms2142pc2
```

For the purpose of typing convenience, alias can be set for commands, for instance:

```
alias vabs='VABSIII'
alias swiftcomp='SwiftComp'
```

Useful Tips

Multiple remote windows

By default, if you start a program with GUI from the shell using the command like `emacs [options]`, you will lose the focus in the shell and cannot do anything more there.

To fix this, or if you want to open multiple programs remotely, append the character `&` to the command. For instance `emacs ~/.bash_profile &`.

Check linked libraries

To check if libraries are linked correctly, use the command `ldd /absolute/path/to/software`, for instance, `ldd /home/msg/a/MSGCodes/VABSIII`.

Other resources

- [UNIX / LINUX Tutorial](#)
- [Linux Command Line Cheat Sheet](#)