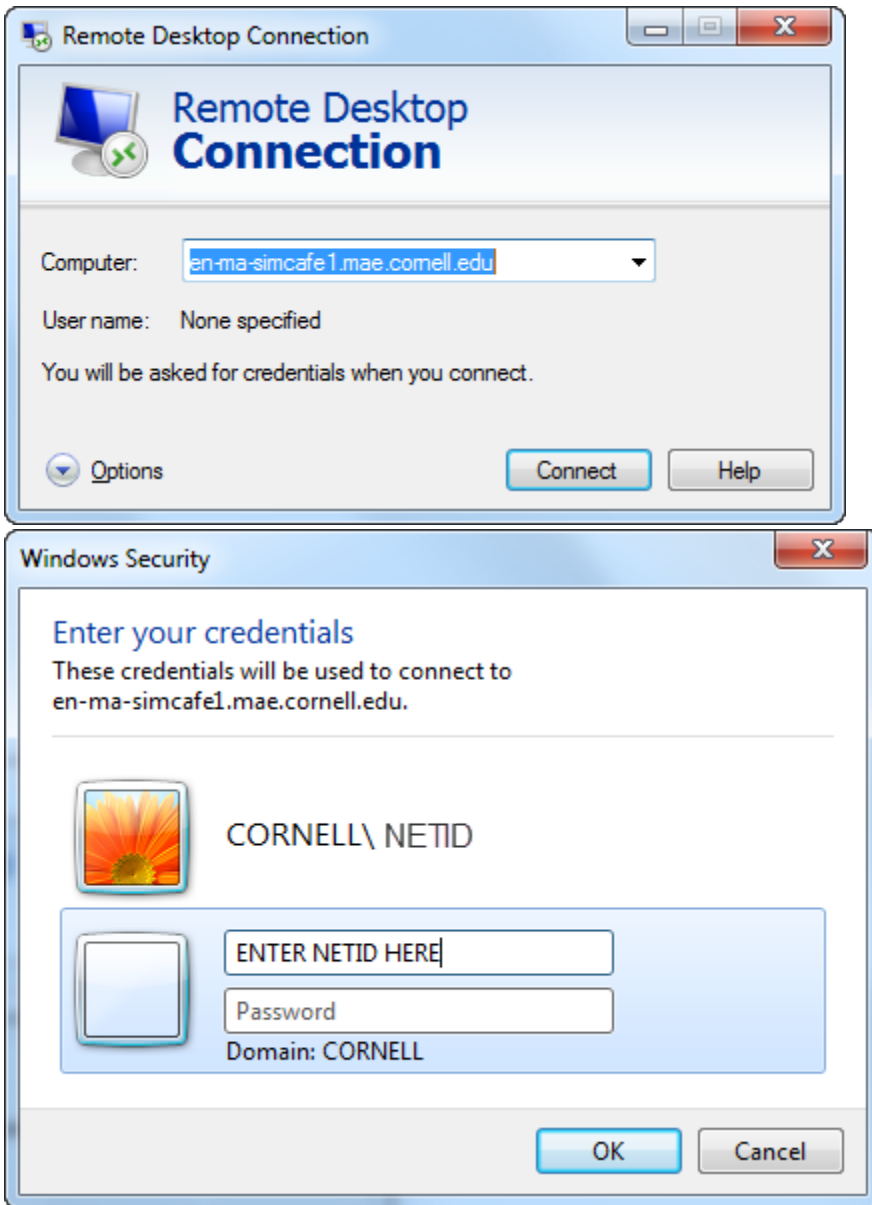


Running Fluent on a Remote Server

If your simulation requires more processing power, you may need to remotely run the calculations on a larger server. This tutorial is for those who have log-in access to the SimCafe1 server on Cornell University's Ithaca campus. The procedure for running FLUENT on other servers will be similar.

Method 1: Remote Desktop Connection

1. If you are connecting to the server outside of the campus, first establish a VPN connection to the Cornell network. For guidelines for setting up the VPN network, refer to [THIS LINK](#) and follow the given steps.
2. In the Start menu, type "Remote Desktop Connection" and hit enter. Input the information below:



3. Hit OK and you should be able to access the server smoothly.
4. You can transfer files between the remote server and your local machine through drag-and-drop by mapping a network drive. See the instructions below for mapping a network drive.

Note: Some users may find that the default Remote Desktop app in Windows does not work properly. If this happens to you, try using this [alternative](#) with the same procedure.

Method 2: Using server as a network drive

Instructions are provided in the following video and summarized below:

Summary of the video above:

1. Append DNS suffix
 - a. Go to Control Panel >> Network and Sharing Center >> Local Area Connection (or Wi-Fi if you don't have a hard connection)
 - b. Click Properties in the "Status" window
 - c. Select Internet Protocol Version 4 (TCP/IPv4)
 - d. Click Properties >> Advanced
 - e. Go to the "DNS" tab and under the window "Append these DNS suffixes", click Add
 - f. In the "TCP/IP Domain Suffix" window, type in: mae.cornell.edu
 - g. Hit "OK" and "Close" until you return to your desktop
2. Map Network drive
 - a. Go to "My Computer" and select "Map network drive" on the top bar
 - b. For "Folder", type in: \\en-ma-simcafe1\workspace
 - c. Click "Finish" and make note of the drive letter used (e.g., 'Z:')
 - d. If it prompts you for login information, use your netID@cornell.edu and password.
3. Set up FLUENT
 - a. Select "Parallel"
 - b. Select "Use Job Scheduler"
 - c. Choose # of processes. (Note that the academic version of FLUENT is limited to 2 processes.)
 - d. Under "More Options" in the "General Options" tab
 - i. For working directory, type in the name of mapped drive (e.g., 'Z:\')
 1. If this is grayed out and does not have the correct drive, follow these instructions:
 - a. Find the Workbench shortcut (or the Fluent shortcut if you run Fluent directly instead of through Workbench)
 - b. Right-click and select "Properties"
 - c. Change "Start In" to the location of the mapped drive
 - ii. For "Fluent Root Path", enter: \\en-ma-simcafe1\fluent
 - e. Under the "Scheduler" tab
 - i. For Computer Cluster Head Node Name, enter: en-ma-simcafe1.mae.cornell.edu
 - f. If you are using a UDF, check "Setup Compilation Environment for UDF" under the "Environment" tab
 - g. Click OK to run FLUENT
 - h. In the print-out console, make sure all licenses are available and simulation is running
 4. Check progress of Fluent solver
 - a. Check that HPC Cluster Manager is installed on the computer
 - b. Run HPC Job Manager
 - c. Select "active" on the left tab to view active jobs