SSH KEYS EXERCISES

**EXERCISE 1**

Goal: Authenticate to SciNet Teach cluster via a password

**Windows**: Use MobaXterm or another tool of your choice to access *teach.scinet.utoronto.ca*

**MacOS/Linux:** Via a terminal, type *ssh username@teach.scinet.utoronto.ca*

**EXERCISE 2**

Goal: Create an SSH key pair on your workstation, then authenticate to SciNet Teach cluster via SSH key.

**STEP 1 – On your workstation, create your SSH key pair.**

Steps for **Linux/MacOS**:  
<https://docs.alliancecan.ca/wiki/Using_SSH_keys_in_Linux>

Steps for **Windows**:  
<https://docs.alliancecan.ca/wiki/Generating_SSH_keys_in_Windows>

Recommendations:

Add a passphrase to encrypt the private key; 15 characters or more.

Name the SSH key as you may create SSH keys for other systems. Ex: LaptopName\_SciNet

If you have several laptops, create dedicated SSH key pairs for each of them.

**STEP 2 – Make the public key available on Teach cluster.**

*Option a* – Upload the SSH public key to CCDB (Alliance account needed):

<https://ccdb.computecanada.ca/ssh_authorized_keys>

*Option b* - Copy the SSH public key to Teach, under .ssh/authorized\_keys file  
[https://docs.alliancecan.ca/wiki/Using\_SSH\_keys\_in\_Linux#Installing\_locally](https://docs.alliancecan.ca/wiki/Using_SSH_keys_in_Linux)

[https://docs.alliancecan.ca/wiki/Generating\_SSH\_keys\_in\_Windows#Installing\_locally](https://docs.alliancecan.ca/wiki/Generating_SSH_keys_in_Windows)

**STEP 3 – From your workstation, try to authenticate to Teach with your SSH key.**

**On Linux/MacOS:**

$ ssh -i ~/.ssh/private\_key\_name myusername@teach.scinet.utoronto.ca

**On Windows:**

<https://docs.alliancecan.ca/wiki/Connecting_with_PuTTY#Using_a_Key_Pair>

<https://docs.alliancecan.ca/wiki/Connecting_with_MobaXTerm#Using_a_Key_Pair>