

## Connecting to the Class Pi

This guide will help you install git SCM and VS Code on your home computer to allow you to connect to the remote class pi. Note VS Code is the IDE I will use to connect to the remote class Pi. You may choose a different IDE, but I will not be providing a guide for other platforms.

## Connection Info

Your username is the first part of your student email. If your student email was [mrisher1@student.rcc.edu](mailto:mrisher1@student.rcc.edu). Then your username would be mrisher1

Your default password is student

The command to connect to the server is:

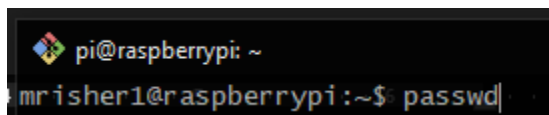
```
ssh -p 777 username@csc1pi.ddns.net
```

**Note:** the 777 is the port the pi is located on this will change when the pi is moved to the schools network. I will make an announcement when that happens.

### Change your password

To change your password once you connect type the following into the terminal on, you're the remote pi

passwd



**Make sure you see the @raspberrypi** this lets you know you are in the raspberry Pi and not in your computer.

## Guide: Installing Git SCM and Connecting to a Remote Pi via SSH

Install Git SCM on your windows Machine. (Not needed on the Pi)

Git is a distributed version control system commonly used for source code management.

## Download Git SCM

1. Go to the official [Git for Windows download page](#).
2. Download the latest Git executable.

## Install Git SCM

1. Run the installer and follow the instructions.
2. During the installation, you'll be asked to configure some options. It's generally okay to keep the default settings, but you can adjust them based on your needs. Some key points are:
  3. Choose the editor you'd like to use with Git (Nano, VS Code, Vim, etc.).
  4. Adjust your PATH environment (recommended option is to "Use Git from the command line and also from 3rd-party software").
  5. Choose HTTPS transport backend (select the default "Use OpenSSL Library").
  6. Configuring line-ending conversions (choose "Checkout Windows-style, commit Unix-style line endings").
  7. Use MinTTY (the default terminal of MSYS2)
8. Complete the installation.

## Verify Installation

1. Open **Git Bash** (installed with Git for Windows) and run:
  - `git --version`
2. You should see the version of Git installed.

## Connecting to the Server

1. Use the following command to connect to your remote server:  
`Ssh -p 777 username@csc11pi.ddns.net`  
Replace username with the first part of your student email.

# Installing Visual Studio Code and Connecting to a Remote Pi Via SSH (optional)

## Install Visual Studio Code

1. Download Visual Studio Code from the official website: <https://code.visualstudio.com/>
2. Run the installer and follow the setup wizard, accepting the default options
3. Launch Visual Studio Code after installation

## Install Remote SSH Extension

1. Open Visual Studio Code
2. Click on the Extensions icon in the left sidebar
3. Search for "Remote SSH" in the extensions marketplace
4. Click "Install" on the "Remote - SSH" extension by Microsoft

## Connect to SSH Using Remote SSH

1. After installation, click on the green icon in the lower-left corner of VS Code
2. Select "Remote-SSH: Connect to Host..." from the menu
3. Choose "Add New SSH Host..." if your host isn't listed
4. Enter the SSH connection command, e.g., `ssh -p 777 yurusername@csc11pi.ddns.net`
5. Select a configuration file to update (usually the first option)
6. VS Code will now connect to the remote host via SSH
7. When prompted, enter your SSH key password
8. Once connected, you can open folders and files on the remote machine directly from VS Code