

cse15l-lab-reports

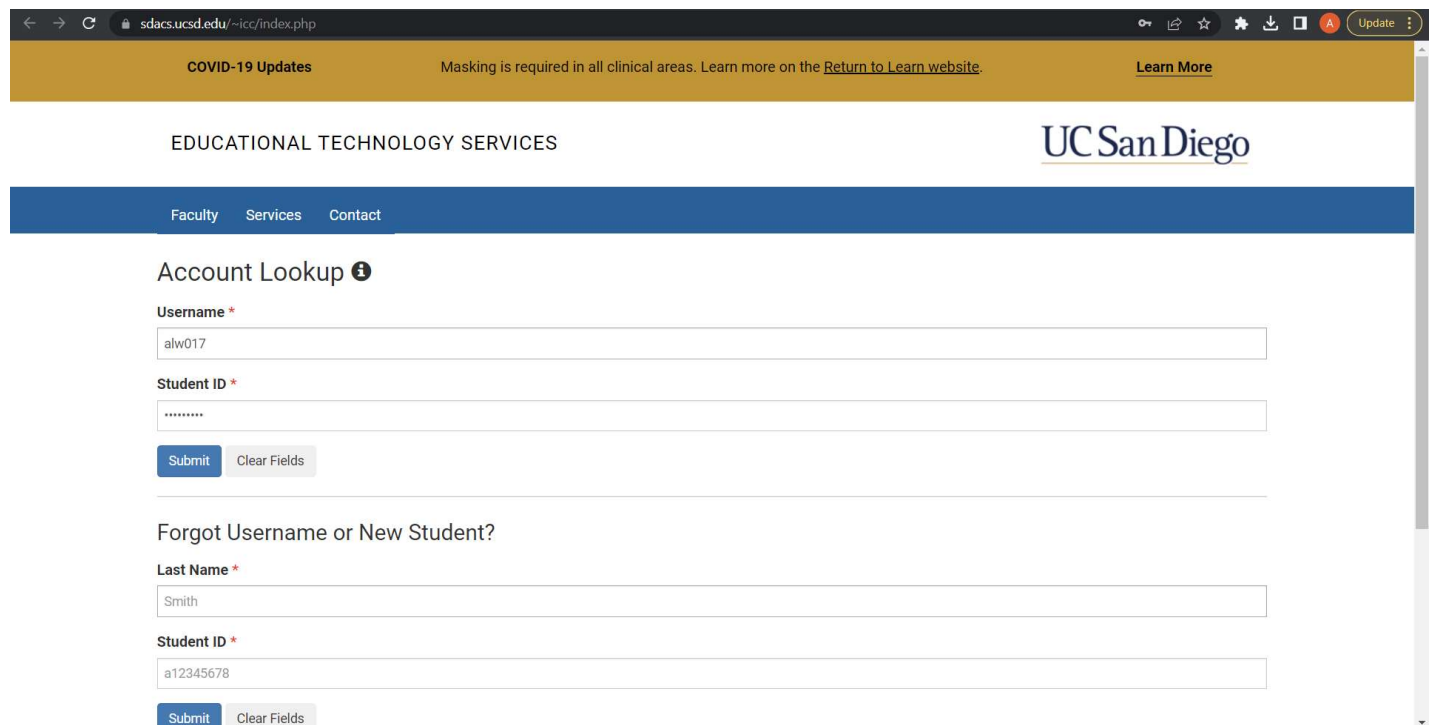
Lab Report 1 - A How to Guide for Remote Access and File System

Step 1 - Setting Up

Your CSE 15L Lab Account

Find your associated CSE15L account and change the password for the account. You can do this on the website:

<https://sdacs.ucsd.edu/~icc/index.php>



The screenshot shows a web browser window with the URL `sdacs.ucsd.edu/~icc/index.php`. The page has a yellow header with "COVID-19 Updates" and a message about masking. Below the header, it says "EDUCATIONAL TECHNOLOGY SERVICES" and "UC San Diego". A blue navigation bar contains "Faculty", "Services", and "Contact". The main content area is titled "Account Lookup" with an information icon. It contains two forms. The first form has fields for "Username *" (containing "alw017") and "Student ID *" (containing "*****"), with "Submit" and "Clear Fields" buttons. The second form is titled "Forgot Username or New Student?" and has fields for "Last Name *" (containing "Smith") and "Student ID *" (containing "a12345678"), also with "Submit" and "Clear Fields" buttons.

You should see this once you get on the website. In the top two boxes, labeled "Username" and "Student ID," fill in your school account username (the one you sign into duo with) and student id, with the A, but in lowercase.

For example:

Username: jsmith

Student ID: a12345678

After looking up your account, you should see something like this:

The screenshot shows the 'Account Lookup Results' page from UC San Diego's Educational Technology Services. At the top, there is a brown banner with 'COVID-19 Updates', a notice about masking, and a 'Learn More' link. Below this is a blue navigation bar with 'Faculty', 'Services', and 'Contact' links. The main content area has a white background. It starts with the heading 'Account Lookup Results', followed by a welcome message and a partially redacted username. A yellow box contains a message: 'Let's set the password for your account. Use our UC San Diego Active Directory (AD) Password Change Tool to reset your password.' Below this is the 'Additional Accounts' section, which states that there are additional ETS accounts associated with the user's Student ID and provides a button labeled 'cs15lsp23' with a redacted suffix. The 'Email Information' section shows the official UC San Diego email address as redacted and notes that mail is delivered to the user's UCSD Gmail account at 'gmail.ucsd.edu'.

Under the **Additional Accounts** header, look for an account name that starts with "cse15l", followed by the quarter and year that you are taking the class, and two random letters.

The for me, my username looked similar to this: cse15lsp23zz

The "zz" at the end of the username is your specific account, and is different for every person. The letters "sp" stand for spring, and change depending on which quarter you're taking the class. Replace those letters with ones relevant to you, and write it down somewhere.

Next, click on the "UC San Diego Active Directory (AD) Password Change Tool" hyperlink to change your password.

Click on "Proceed to the Password Change Tool"

Enter the username you wrote down earlier.

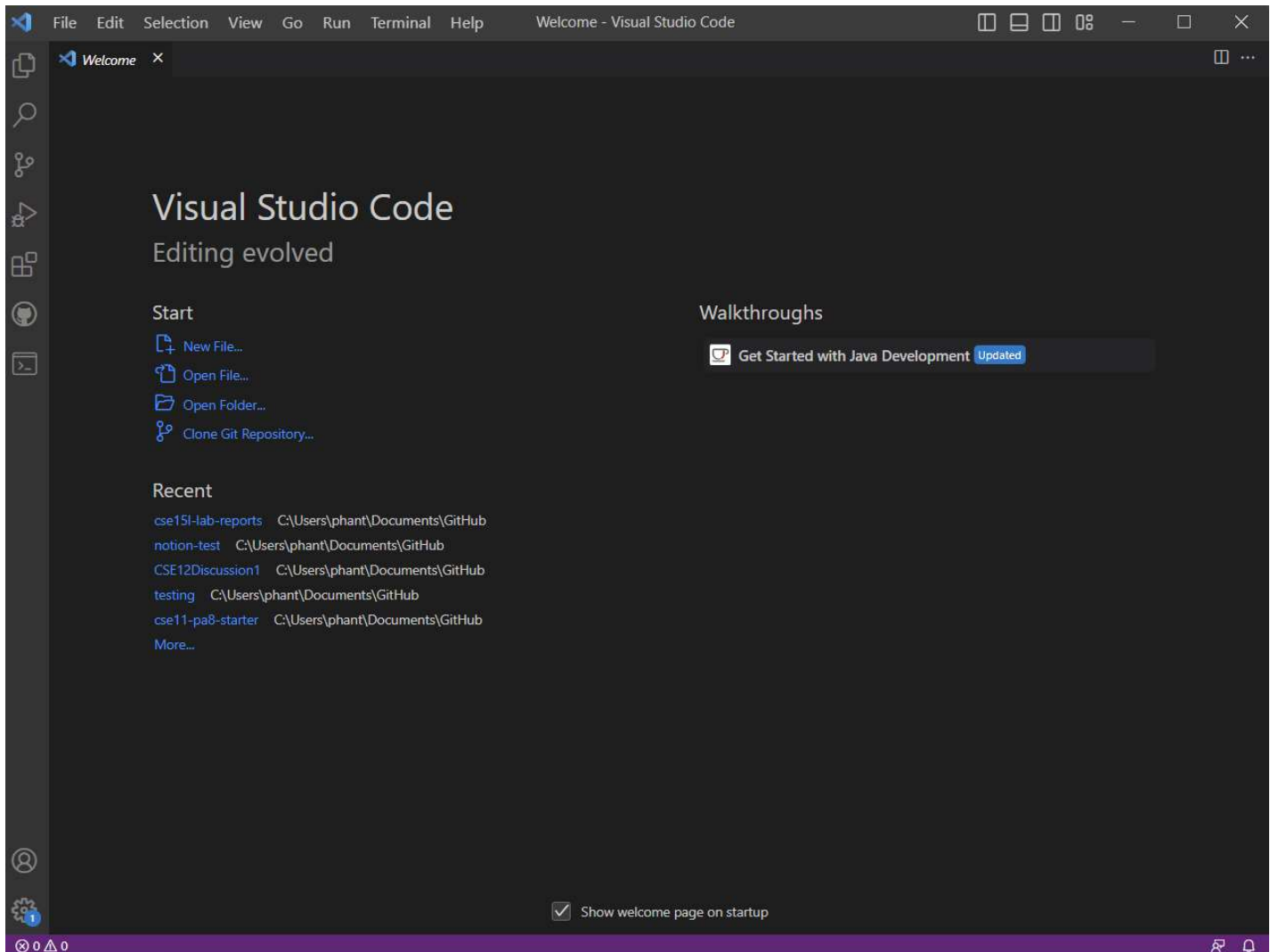
Follow the instructions listed, and then you will have setup your lab account. It might take up to 30-40 minutes for the password change to update in the system.

VSCode

I already had VSCode installed on my laptop, so I didn't need to install it.

If you need to install VSCode, head to <https://code.visualstudio.com/download> and follow the instructions for Windows, Mac, or Linux depending on your computer.

You should see something like this when you finish installing VSCode, and open it for the first time.



git bash

Go to <https://gitforwindows.org/> and install git. Run the installer, and follow all instructions.

Now you're ready to connect to the server!

Step 2 - Remotely Connecting

For Windows Users:

Open git bash, and type in `ssh <your lab username>@ieng6.ucsd.edu`

The first time you connect, you might be prompted with a message like this:

The authenticity of host 'ieng6.ucsd.edu (128.54.70.227)' can't be established. RSA key fingerprint is SHA256:ksruYwhnYH+sySHnHAtLUHngrPEyZTD1/1x99wUQcec. Are you sure you want to continue connecting (yes/no/[fingerprint])?

Type in "yes". This is expected for the first time connecting to a new server.

Then you will be prompted with something like this:

```
$ ssh cs15lsp23@ieng6.ucsd.edu
(cs15lsp23@ieng6.ucsd.edu) Password: |
```

Enter the password that you set earlier. It will not indicate that you are typing, but you are still typing.

When you login successfully, you will see a lot of output, followed by your username in some brackets at the bottom.

This means you successfully logged in. This is what I saw as I logged in. You might see more output.

```
Last login: Thu Apr  6 11:07:54 2023 from 100.88.1.55
Hello cs15lsp23, you are currently logged into ieng6-202.ucsd.edu

You are using 0% CPU on this system

Cluster Status
Hostname      Time      #Users  Load  Averages
ieng6-201     12:10:01    9   0.39, 0.19, 0.21
ieng6-202     12:10:01    9   0.12, 0.12, 0.18
ieng6-203     12:10:01   10   0.03, 0.08, 0.16

Thu Apr 06, 2023 12:12pm - Prepping cs15lsp23
```

Step 3 - Trying Some Commands

Now that you have logged in, you can try some commands!

Here's a list of commands that I used:

- `cd` - change directory to home.
- `cd ~` - change directory to home.
- `ls -lat` - list with optional arguments l, a, and t in the working directory.
- `ls -lsra` - list with optional arguments l, s, r, a in the working directory.
- `cp /home/linux/ieng6/cs15lsp23/public/hello.txt ~/` - copy a file from the first path to the second path.
- `cat /home/linux/ieng6/cs15lsp23/public/hello.txt` - print out the contents of the file at the given path.

Here was the result that I got for `ls -lat` executed in my home directory.

```
[cs15lsp23dm@ieng6-202]:~:28$ ls -lat
total 120
-rw-r--r--  1 cs15lsp23dm ieng6_cs15lsp23 1308 Apr  6 12:12 .modulesbegenv
-rw-----  1 cs15lsp23dm ieng6_cs15lsp23  608 Apr  6 12:10 .bash_history
drwxr-sr-x 506 cs15lsp23dm ieng6_cs15lsp23 40960 Apr  6 09:55 ..
drwxr-s---  6 cs15lsp23dm ieng6_cs15lsp23 4096 Apr  5 19:09 .
-rw-----  1 cs15lsp23dm ieng6_cs15lsp23  931 Apr  5 17:51 .viminfo
-rw-r-----  1 cs15lsp23dm ieng6_cs15lsp23    0 Apr  5 17:41 .motd
drwxr-sr-x  2 cs15lsp23dm ieng6_cs15lsp23 4096 Apr  5 17:41 perl5
drwxr-sr-x  3 cs15lsp23dm ieng6_cs15lsp23 4096 Apr  5 17:41 .local
drwxr-sr-x  3 cs15lsp23dm ieng6_cs15lsp23 4096 Apr  5 17:41 .config
drwxr-sr-x  3 cs15lsp23dm ieng6_cs15lsp23 4096 Apr  5 17:41 .cache
-rwxr-x---  1 cs15lsp23dm ieng6_cs15lsp23  290 Apr  5 17:10 .zshrc
-rwxr-x---  1 cs15lsp23dm ieng6_cs15lsp23  481 Apr  5 17:10 .zshenv
-rwxr-x---  1 cs15lsp23dm ieng6_cs15lsp23 1931 Apr  5 17:10 .zprofile
-rwxr-x---  1 cs15lsp23dm ieng6_cs15lsp23 1961 Apr  5 17:10 .profile
-rwxr-x---  1 cs15lsp23dm ieng6_cs15lsp23  837 Apr  5 17:10 .procmailrc
-rwxr-x---  1 cs15lsp23dm ieng6_cs15lsp23  431 Apr  5 17:10 .login
-rwxr-x---  1 cs15lsp23dm ieng6_cs15lsp23  155 Apr  5 17:10 .locallogin
-rwxr-x---  1 cs15lsp23dm ieng6_cs15lsp23 1692 Apr  5 17:10 .kshrc
-rwxr-x---  1 cs15lsp23dm ieng6_cs15lsp23 1931 Apr  5 17:10 .cshrc
-rwxr-x---  1 cs15lsp23dm ieng6_cs15lsp23 1721 Apr  5 17:10 .bashrc
-rwxr-x---  1 cs15lsp23dm ieng6_cs15lsp23  975 Apr  5 17:10 .bash_profile
[cs15lsp23dm@ieng6-202]:~:29$ |
```