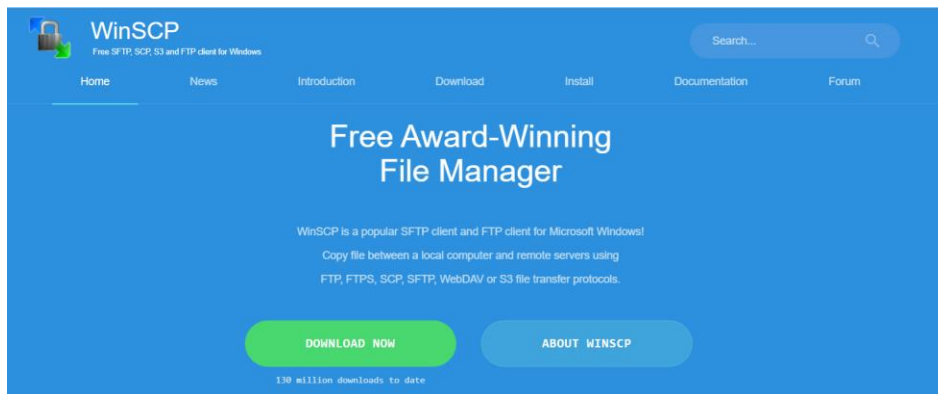# How to import the files from PC to tin0 and from tin0 to Cloud Stack virtual machine
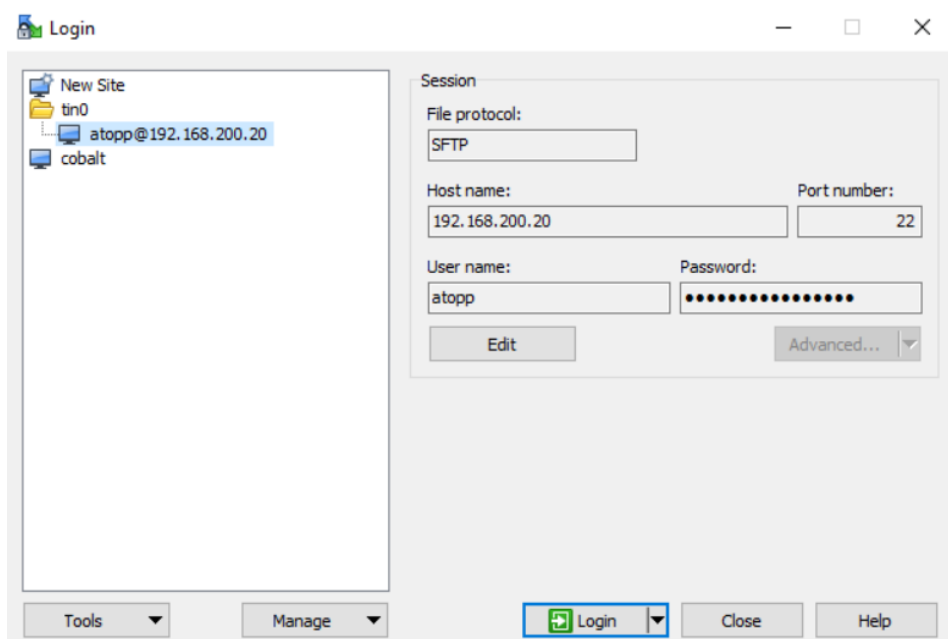
Step 1: Installing WinSCP

WinSCP is a free and open-source SFTP, FTP, WebDAV, Amazon S3 and SCP client for Microsoft Windows. Its main function is secure file transfer between a local and a remote computer.

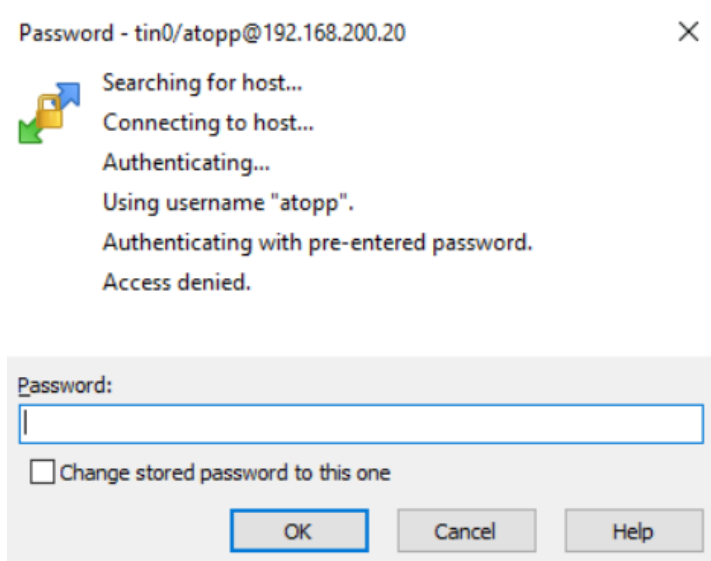Download WinSCP here: https://winscp.net/eng/index.php for Windows.

Step 2: Connecting to tin0 with WinSCP

First, connect to Global Protect. Then, connect to tin0 through ssh by following steps below. Tin0 IP address is 192.168.200.20, port # is 22. Enter those credentials with a username & password.
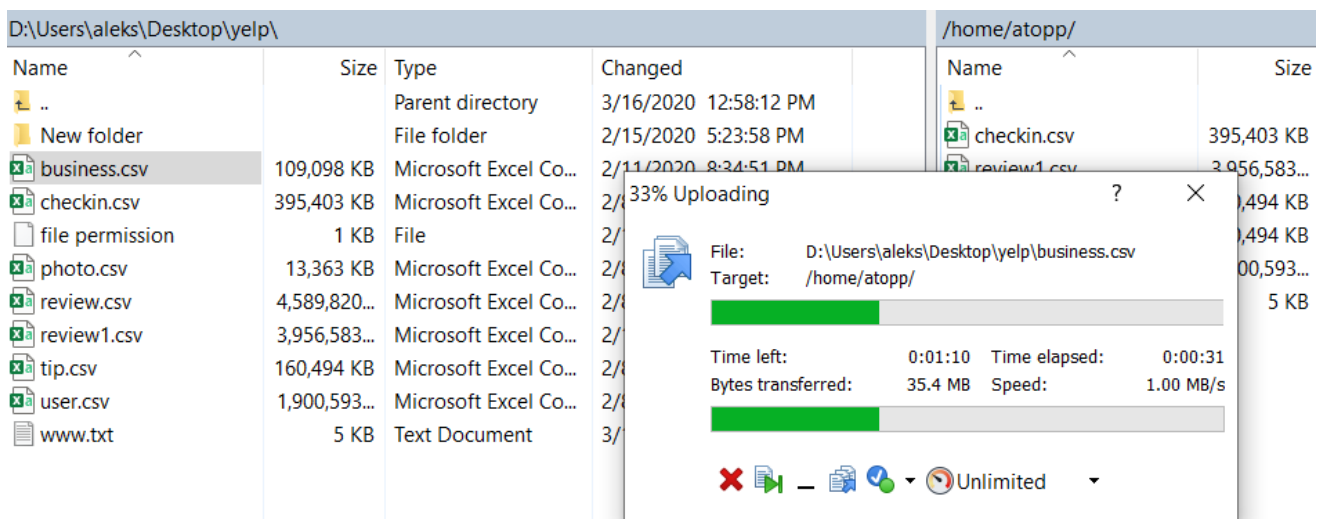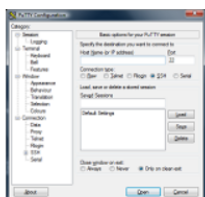
Alla Topp
MSDS 696 – Data Science Practicum

Enter tin0 user`s password again.

Password - tin0/atopp@192.168.200.20 ✕

Searching for host...
Connecting to host...
Authenticating...
Using username "atopp".
Authenticating with pre-entered password.
Access denied.

Password:

☐ Change stored password to this one

OK   Cancel   Help

When in the tin0 directory, drag the files from PC directory to tin0 directory and uploading will start.

D:\Users\aleks\Desktop\yelp\   /home/atopp/

Name	Size	Type	Changed		Name	Size
⬆ ..		Parent directory	3/16/2020 12:58:12 PM		⬆ ..	
📁 New folder		File folder	2/15/2020 5:23:58 PM		📊 checkin.csv	395,403 KB
📊 business.csv	109,098 KB	Microsoft Excel Co...	2/11/2020 8:34:51 PM		📊 review1.csv	3,956,583...
📊 checkin.csv	395,403 KB	Microsoft Excel Co...	2/			,494 KB
📄 file permission	1 KB	File	2/			,494 KB
📊 photo.csv	13,363 KB	Microsoft Excel Co...	2/			00,593...
📊 review.csv	4,589,820...	Microsoft Excel Co...	2/			5 KB
📊 review1.csv	3,956,583...	Microsoft Excel Co...	2/			
📊 tip.csv	160,494 KB	Microsoft Excel Co...	2/			
📊 user.csv	1,900,593...	Microsoft Excel Co...	2/			
📄 www.txt	5 KB	Text Document	3/			

33% Uploading   ?   ✕

File: D:\Users\aleks\Desktop\yelp\business.csv
Target: /home/atopp/

Time left: 0:01:10   Time elapsed: 0:00:31
Bytes transferred: 35.4 MB   Speed: 1.00 MB/s

✕ 📄 — 📄 ☁ ▾ 🕐 Unlimited   ▾

Step 3: Install PuTTY

Download PuTTY

PuTTY is an SSH and telnet client, developed originally by Simon Tatham for the Windows platform. available with source code and is developed and supported by a group of volunteers.

You can download PuTTY here.

Alla Topp
MSDS 696 – Data Science Practicum

Installation link: https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html

Step 4: Connect to tin0 through ssh in PuTTY.

Open PuTTY and connect to the tin0 account where the files are. Tin0 IP address is 192.168.200.20 then open.
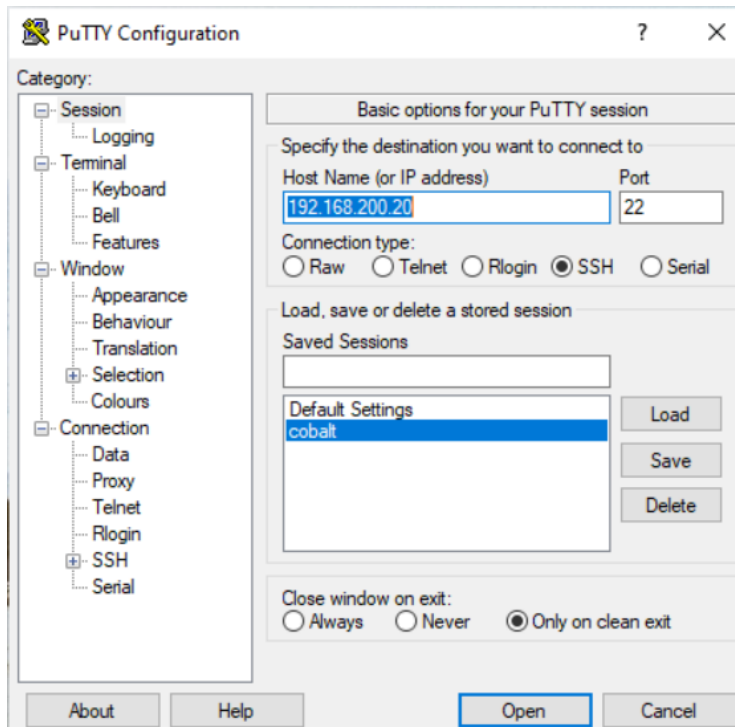
Step 5: Login with tin0 username and password where files are, and proceed with scp transfer commands below.
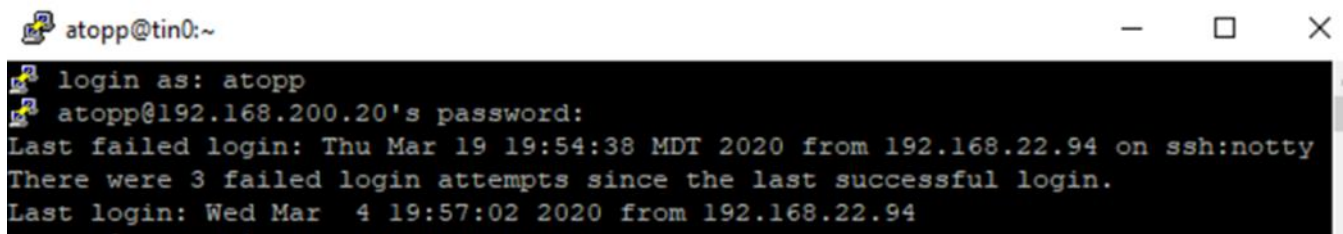
```
[atopp@tin0 ~]$ scp business.csv ubuntu@192.168.200.194:~
ubuntu@192.168.200.194's password:
business.csv                              100%  107MB  23.3MB/s   00:04
[atopp@tin0 ~]$ scp business.csv ubuntu@192.168.200.149:~
ubuntu@192.168.200.149's password:
business.csv                              100%  107MB  23.3MB/s   00:04
[atopp@tin0 ~]$ scp tip.csv ubuntu@192.168.200.149:~
ubuntu@192.168.200.149's password:
tip.csv                                   100%  157MB  23.3MB/s   00:06
[atopp@tin0 ~]$ scp checkin.csv ubuntu@192.168.200.149:~
ubuntu@192.168.200.149's password:
checkin.csv                               100%  386MB  23.3MB/s   00:16
[atopp@tin0 ~]$ scp review1.csv ubuntu@192.168.200.149:~
ubuntu@192.168.200.149's password:
review1.csv                               100% 3864MB  22.8MB/s   02:49
[atopp@tin0 ~]$
```

Additional steps:

If scp commands return error "connection refused", try to install ssh on the virtual machine where the files are being transferred, if it is not yet installed.

First update the system using the apt command or apt-get command:
```
$ sudo apt update
$ sudo apt upgrade
```

```
server1@server1-CloudStack-KVM-Hypervisor:~$ sudo apt update
[sudo] password for server1:
Hit:1 http://us.archive.ubuntu.com/ubuntu bionic InRelease
Get:2 http://security.ubuntu.com/ubuntu bionic-security InRelease [88.7 kB]
Get:3 http://us.archive.ubuntu.com/ubuntu bionic-updates InRelease [88.7 kB]
Get:4 http://us.archive.ubuntu.com/ubuntu bionic-backports InRelease [74.6 kB]
Get:5 http://security.ubuntu.com/ubuntu bionic-security/main i386 Packages [459
kB]
```

```
server1@server1-CloudStack-KVM-Hypervisor:~$ sudo apt upgrade
Reading package lists... Done
Building dependency tree
Reading state information... Done
Calculating upgrade... Done
```

To install openssh-server package, run:
```
$ sudo apt install openssh-server
```

```
server1@server1-CloudStack-KVM-Hypervisor:~$ sudo apt install openssh-server
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages were automatically installed and are no longer required:
  efibootmgr gir1.2-geocodeglib-1.0 libfwup1 libllvm8 libwayland-egl1-mesa
  ubuntu-web-launchers
```

To verify that ssh service running type the command in terminal:

```
$ sudo systemctl status ssh
```

```
server1@server1-CloudStack-KVM-Hypervisor:~$ sudo systemctl start ssh
server1@server1-CloudStack-KVM-Hypervisor:~$ sudo systemctl status ssh
● ssh.service - OpenBSD Secure Shell server
   Loaded: loaded (/lib/systemd/system/ssh.service; enabled; vendor preset: enab
   Active: active (running) since Tue 2020-04-28 10:37:03 MDT; 4min 1s ago
  Process: 1575 ExecReload=/bin/kill -HUP $MAINPID (code=exited, status=0/SUCCES
  Process: 1571 ExecReload=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
  Process: 702 ExecStartPre=/usr/sbin/sshd -t (code=exited, status=0/SUCCESS)
 Main PID: 723 (sshd)
    Tasks: 1 (limit: 4915)
   CGroup: /system.slice/ssh.service
           └─723 /usr/sbin/sshd -D
```

Alla Topp
MSDS 696 – Data Science Practicum

References

(n.d.). Retrieved from https://www.chiark.greenend.org.uk/~sgtatham/putty/latest.html

Free Award-Winning File Manager. (2020, April 27). Retrieved from https://winscp.net/eng/index.php

Gite, V., Gite, V., Gite, V., & Gite, V. (2019, October 14). Ubuntu Linux install OpenSSH server.

    Retrieved from https://www.cyberciti.biz/faq/ubuntu-linux-install-openssh-server/

Gite, V., Gite, V., Gite, V., & Gite, V. (2019, October 14). Ubuntu Linux install OpenSSH server.

    Retrieved from https://www.cyberciti.biz/faq/ubuntu-linux-install-openssh-server/