

Remote Login

Signing Up for a CS Account

- You will need a CS account for this course
- You will use it to compile and run your assignments
 - Assignments will be graded on these servers
- If you don't already have one, you'll need to SSH into `shell.cs.fsu.edu` to create one

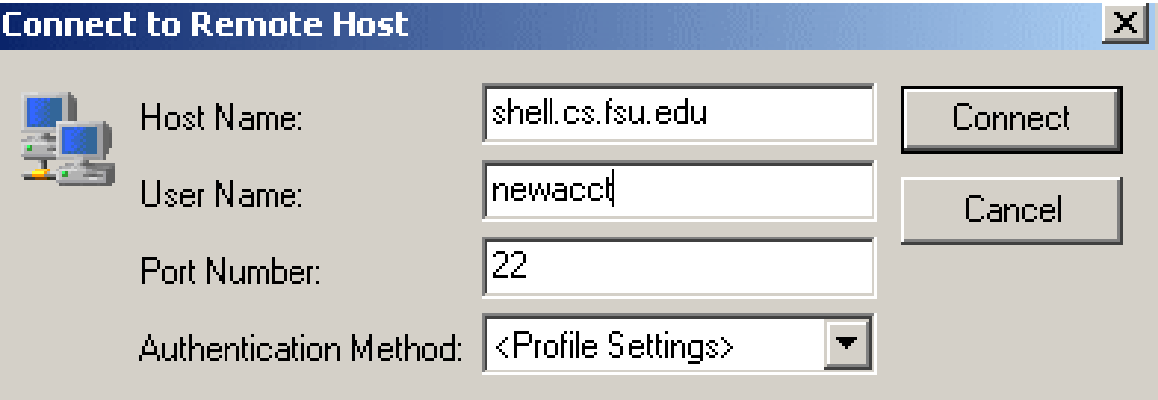
CS Account [Mac / Linux]

- Type ``ssh newacct@shell.cs.fsu.edu`` in the terminal
- It will then prompt you for a password twice, use 'newacct' for both
- It will then ask you a series of questions (e.g. name and chosen password)

CS Account [Windows]

- Use Putty.exe
 - <http://www.chiark.greenend.org.uk/~sgtatham/putty/download.html>

- Fill out the form:



Connect to Remote Host

Host Name: shell.cs.fsu.edu

User Name: newacct

Port Number: 22

Authentication Method: <Profile Settings>

Connect

Cancel

- Enter 'newacct' for the two password prompts
- Then follow the prompts for your actual user name and password

CS Servers

- You have access to three different servers
 - shell checking cs mail (e.g. pine)
 - program programming
 - linprog programming
- You will primarily be using linprog in this class

SSH

- **Secure Shell**
 - Securely logs in to remote server
 - Gives you a terminal to issue commands
- This is how you will access the linprog server

SSH (Mac / Linux)

```
dennis@dennis-Gazelle-Professional:~$ ssh dennis@linprog.cs.fsu.edu
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%
%  DEPARTMENT OF COMPUTER SCIENCE  %
%    Florida State University      %
%
%                                %
%                                %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

```
No mudding, IRC, or other games from here.
Please get a private sector account for non-CS activities.
```

```
See http://www.cs.fsu.edu for departmental information.
See http://system.cs.fsu.edu for Systems information.
Send email to help@cs.fsu.edu for help.
```

```
Attention!!
```

```
If you forward your CS email to your FSU mailbox, make sure your FSU
email address is up to date or you may miss important emails.
```

```
dennis@linprog4:~> ls
```

\$RECYCLE.BIN	Mail	Thumbs.db	dennis-Inside.pfx	mbox
Britton-2013-2-15.pptx	My Music	compilers	dennis-Outside.pfx	rec 3 - shared memory
Desktop	My Pictures	cop4610t	desktop.ini	rec3.tar
Download	My Videos	cop4610t_fall_2015	logs	temp

```
dennis@linprog4:~> date
```

```
Tue Aug 30 09:10:00 EDT 2016
```

```
dennis@linprog4:~> █
```

Command

SSH (Mac / Linux)

```
dennis@dennis-Gazelle-Professional:~$ ssh dennis@linprog.cs.fsu.edu
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%  
%  
% DEPARTMENT OF COMPUTER SCIENCE %  
% Florida State University %  
%  
%  
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

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```
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```
dennis@linprog4:~> date
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```

```
dennis@linprog4:~> █
```

User Name

SSH (Mac / Linux)

```
dennis@dennis-Gazelle-Professional:~$ ssh dennis@linprog.cs.fsu.edu
```

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% Florida State University %  
%  
%  
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```

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Desktop	My Pictures	cop4610t	desktop.ini	rec3.tar
Download	My Videos	cop4610t_fall_2015	logs	temp

```
dennis@linprog4:~> date
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```
Tue Aug 30 09:10:00 EDT 2016
```

```
dennis@linprog4:~> █
```



Server Name

SSH (Mac / Linux)

```
dennis@dennis-Gazelle-Professional:~$ ssh dennis@linprog.cs.fsu.edu
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%                                                     %
%  DEPARTMENT OF COMPUTER SCIENCE  %
%    Florida State University      %
%                                                     %
%                                                     %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
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Desktop	My Pictures	cop4610t	desktop.ini	rec3.tar
Download	My Videos	cop4610t_fall_2015	logs	temp

```
dennis@linprog4:~> date
```

```
Tue Aug 30 09:10:00 EDT 2016
```

```
dennis@linprog4:~> █
```

Command
Prompt

SSH (Mac / Linux)

```
dennis@dennis-Gazelle-Professional:~$ ssh dennis@linprog.cs.fsu.edu
```

```
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
%                                                     %
%  DEPARTMENT OF COMPUTER SCIENCE  %
%    Florida State University      %
%                                                     %
%                                                     %
%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%%
```

```
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```
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Britton-2013-2-15.pptx	My Music	compilers	dennis-Outside.pfx	rec 3 - shared memory
Desktop	My Pictures	cop4610t	desktop.ini	rec3.tar
Download	My Videos	cop4610t_fall_2015	logs	temp

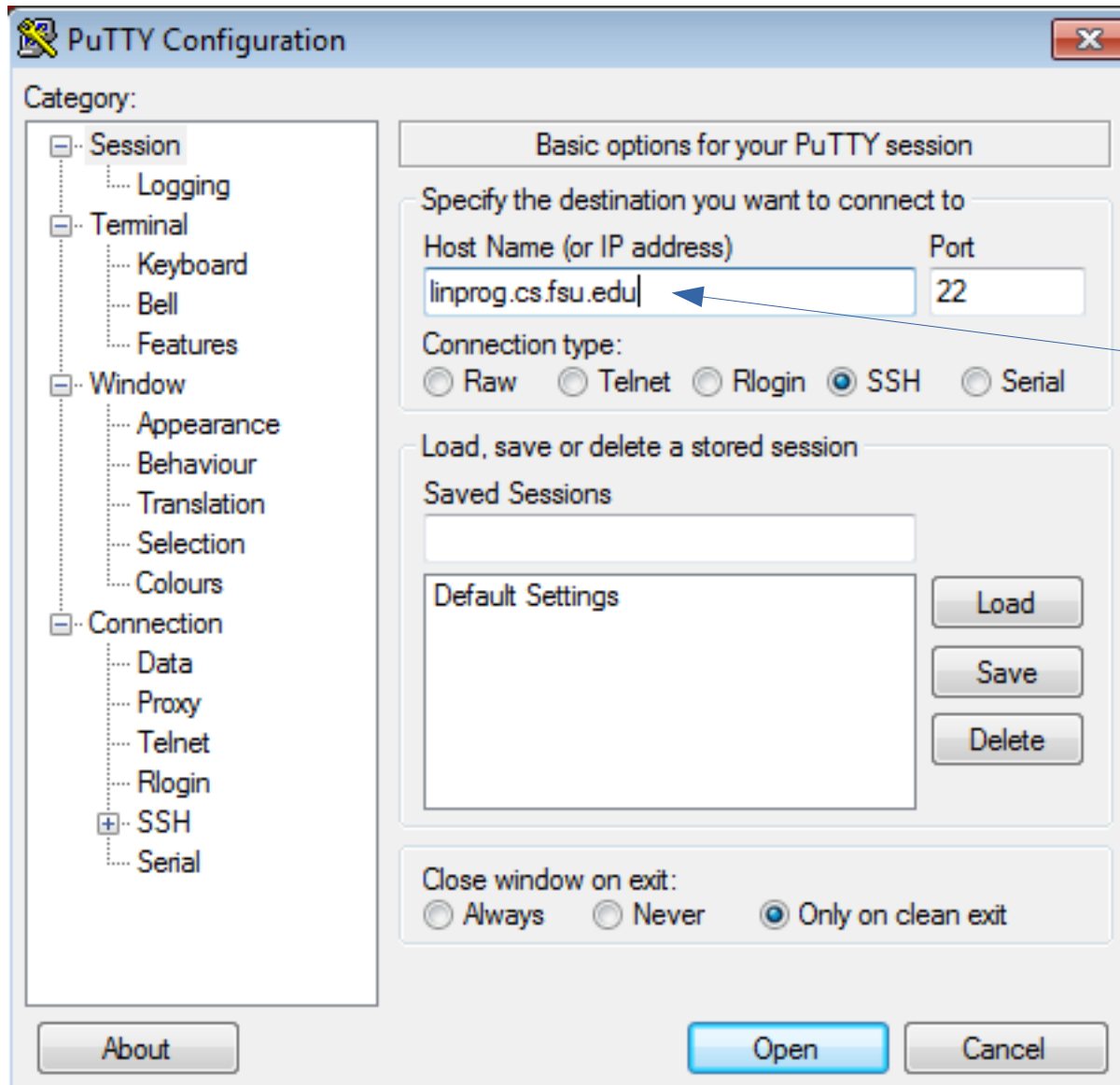
```
dennis@linprog4:~> date
```

```
Tue Aug 30 09:10:00 EDT 2016
```

```
dennis@linprog4:~> █
```

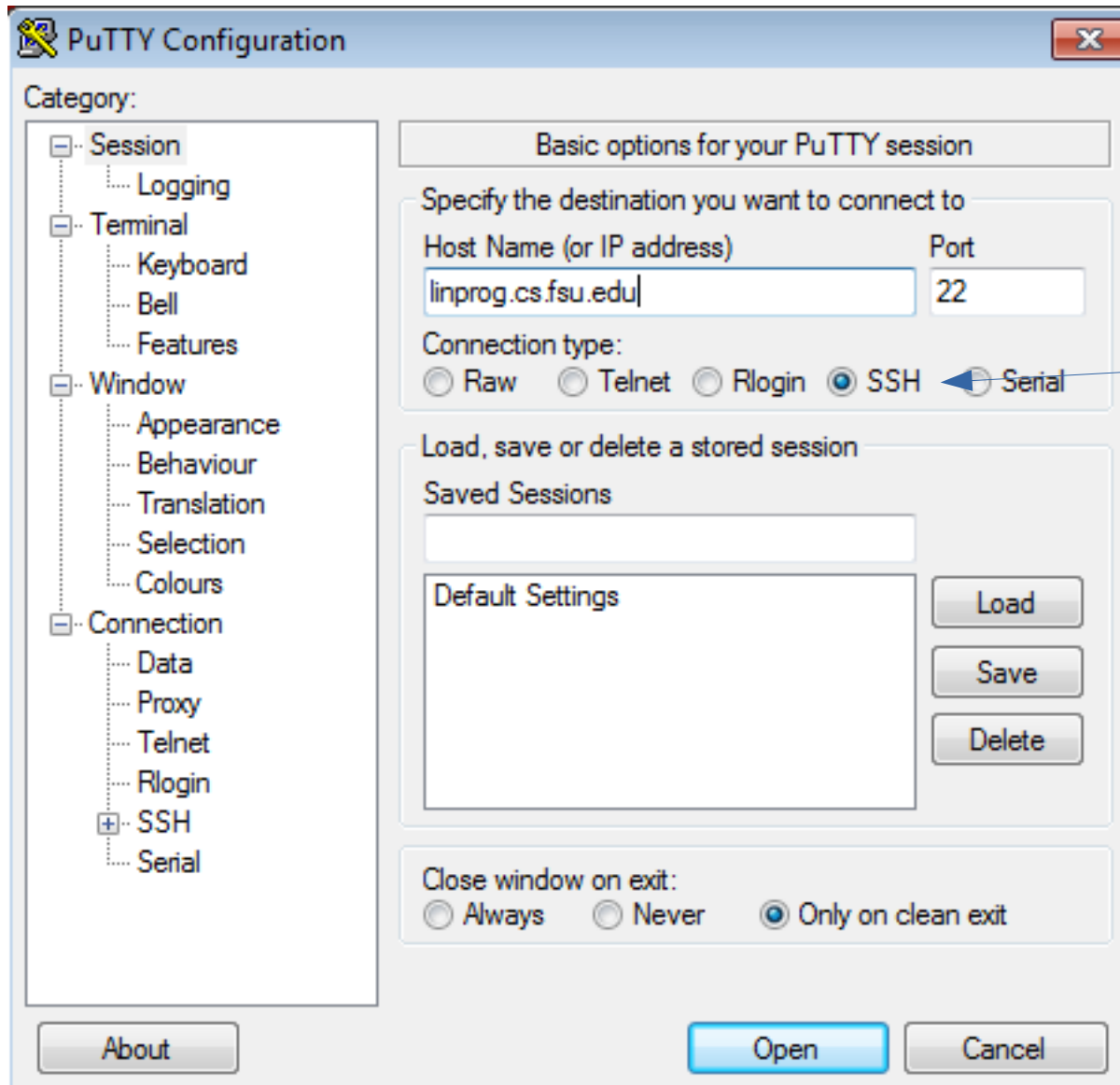
Commands

SSH (Windows w/ Putty)



Server

SSH (Windows w/ Putty)



Protocol

SSH (Windows w/ Putty)

```
login as: dennis  
dennis@linprog.cs.fsu.edu's password:
```

```
#####  
%  
%  DEPARTMENT OF COMPUTER SCIENCE  %  
%   Florida State University      %  
%  
%  
#####
```

```
No mudding, IRC, or other games from here.  
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```
See http://www.cs.fsu.edu for departmental information.  
See http://system.cs.fsu.edu for Systems information.  
Send email to help@cs.fsu.edu for help.
```

```
Attention!!
```

```
If you forward your CS email to your FSU mailbox, make sure your FSU  
email address is up to date or you may miss important emails.
```

```
dennis@linprog2:~> ls  
$RECYCLE.BIN      Desktop      Mail        My Pictures   Thumbs.db    cop4610t      dennis-Inside.pfx  desktop.ini  
Britton-2013-2-15.pptx Download    My Music    My Videos    compilers    cop4610t_fall_2015 dennis-Outside.pfx logs  
dennis@linprog2:~> date  
Tue Aug 30 09:22:23 EDT 2016  
dennis@linprog2:~> █
```

Username

SSH (Windows w/ Putty)

```
login as: dennis
dennis@linprog.cs.fsu.edu's password:
```

```
#####
%
%  DEPARTMENT OF COMPUTER SCIENCE  %
%   Florida State University      %
%                                %
%                                %
#####
```

```
No mudding, IRC, or other games from here.
Please get a private sector account for non-CS activities.
```

```
See http://www.cs.fsu.edu for departmental information.
See http://system.cs.fsu.edu for Systems information.
Send email to help@cs.fsu.edu for help.
```

```
Attention!!
```

```
If you forward your CS email to your FSU mailbox, make sure your FSU
email address is up to date or you may miss important emails.
```

```
dennis@linprog2:~> ls
$RECYCLE.BIN      Desktop      Mail        My Pictures  Thumbs.db   cop4610t    dennis-Inside.pfx  desktop.ini
Britton-2013-2-15.pptx Download    My Music    My Videos   compilers   cop4610t_fall_2015 dennis-Outside.pfx logs
dennis@linprog2:~> date
Tue Aug 30 09:22:23 EDT 2016
dennis@linprog2:~> █
```

Password

SSH (Windows w/ Putty)

```
login as: dennis
dennis@linprog.cs.fsu.edu's password:
```

```
#####
%
%  DEPARTMENT OF COMPUTER SCIENCE  %
%   Florida State University      %
%                                %
%                                %
#####
```

```
No mudding, IRC, or other games from here.
Please get a private sector account for non-CS activities.
```

```
See http://www.cs.fsu.edu for departmental information.
See http://system.cs.fsu.edu for Systems information.
Send email to help@cs.fsu.edu for help.
```

```
Attention!!
```

```
If you forward your CS email to your FSU mailbox, make sure your FSU
email address is up to date or you may miss important emails.
```

```
dennis@linprog2:~> ls
$RECYCLE.BIN      Desktop  Mail      My Pictures  Thumbs.db  cop4610t      dennis-Inside.pfx  desktop.ini
Britton-2013-2-15.pptx Download My Music  My Videos   compilers   cop4610t_fall_2015 dennis-Outside.pfx logs
dennis@linprog2:~> date
Tue Aug 30 09:22:23 EDT 2016
dennis@linprog2:~> █
```

Prompt

SSH (Windows w/ Putty)

```
login as: dennis
dennis@linprog.cs.fsu.edu's password:
```

```
#####
%
%  DEPARTMENT OF COMPUTER SCIENCE  %
%   Florida State University      %
%                                %
%                                %
#####
```

```
No mudding, IRC, or other games from here.
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```
See http://www.cs.fsu.edu for departmental information.
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Attention!!

```
If you forward your CS email to your FSU mailbox, make sure your FSU
email address is up to date or you may miss important emails.
```

```
dennis@linprog2:~> ls
$RECYCLE.BIN      Desktop      Mail        My Pictures  Thumbs.db   cop4610t    dennis-Inside.pfx  desktop.ini
Britton-2013-2-15.pptx Download    My Music    My Videos   compilers   cop4610t_fall_2015  dennis-Outside.pfx logs
dennis@linprog2:~> date
Tue Aug 30 09:22:23 EDT 2016
dennis@linprog2:~> █
```

Commands

SFTP

- **Secure File Transfer Protocol**
 - Used to transfer files between machines
- You can use this to
 - Work on your assignments on your machines then upload them to the server to test
 - Work on your assignments on the server and periodically download them as backups

SFTP (Mac / Linux)

```
dennis@dennis-Gazelle-Professional:~$ sftp dennis@linprog.cs.fsu.edu
Connected to linprog.cs.fsu.edu.
sftp> ls
$RECYCLE.BIN          Britton-2013-2-15.pptx  Desktop              Download
Mail                  My Music               My Pictures          My Videos
Thumbs.db             compilers              cop4610t             cop4610t_fall_2015
dennis-Inside.pfx     dennis-Outside.pfx    desktop.ini          logs
mbox                  rec 3 - shared memory  rec3.tar             temp

sftp> put temp_file
Uploading temp_file to /home/grads/dennis/temp_file
temp_file                                100%   0    0.0KB/s   00:00
sftp> get temp_file
Fetching /home/grads/dennis/temp_file to temp_file
sftp> █
```



Command

SFTP (Mac / Linux)

```
dennis@dennis-Gazelle-Professional:~$ sftp dennis@linprog.cs.fsu.edu
Connected to linprog.cs.fsu.edu.
sftp> ls
$RECYCLE.BIN          Britton-2013-2-15.pptx      Desktop                Download
Mail                  My Music                   My Pictures            My Videos
Thumbs.db              compilers                  cop4610t               cop4610t_fall_2015
dennis-Inside.pfx     dennis-Outside.pfx        desktop.ini             logs
mbox                   rec 3 - shared memory      rec3.tar               temp
sftp> put temp_file
Uploading temp_file to /home/grads/dennis/temp_file
temp_file                                100%   0    0.0KB/s   00:00
sftp> get temp_file
Fetching /home/grads/dennis/temp_file to temp_file
sftp> █
```



Username

SFTP (Mac / Linux)

```
dennis@dennis-Gazelle-Professional:~$ sftp dennis@linprog.cs.fsu.edu
Connected to linprog.cs.fsu.edu.
sftp> ls
$RECYCLE.BIN          Britton-2013-2-15.pptx  Desktop              Download
Mail                  My Music               My Pictures          My Videos
Thumbs.db             compilers              cop4610t             cop4610t_fall_2015
dennis-Inside.pfx     dennis-Outside.pfx    desktop.ini          logs
mbox                  rec 3 - shared memory  rec3.tar             temp
sftp> put temp_file
Uploading temp_file to /home/grads/dennis/temp_file
temp_file                                100%   0    0.0KB/s   00:00
sftp> get temp_file
Fetching /home/grads/dennis/temp_file to temp_file
sftp> █
```



Server

SFTP (Mac / Linux)


```
dennis@dennis-Gazelle-Professional:~$ sftp dennis@linprog.cs.fsu.edu
Connected to linprog.cs.fsu.edu.
sftp> ls
$RECYCLE.BIN                Britton-2013-2-15.pptx      Desktop                     Download
Mail                        My Music                   My Pictures                 My Videos
Thumbs.db                   compilers                  cop4610t                   cop4610t_fall_2015
dennis-Inside.pfx           dennis-Outside.pfx        desktop.ini                 logs
mbox                        rec 3 - shared memory      rec3.tar                   temp
sftp> put temp_file
Uploading temp_file to /home/grads/dennis/temp_file
temp_file                                100%   0    0.0KB/s   00:00
sftp> get temp_file
Fetching /home/grads/dennis/temp_file to temp_file
sftp> █
```



Prompt

SFTP (Mac / Linux)

```
dennis@dennis-Gazelle-Professional:~$ sftp dennis@linprog.cs.fsu.edu
Connected to linprog.cs.fsu.edu.
sftp> ls
$RECYCLE.BIN          Britton-2013-2-15.pptx      Desktop                Download
Mail                  My Music                   My Pictures            My Videos
Thumbs.db             compilers                  cop4610t               cop4610t_fall_2015
dennis-Inside.pfx     dennis-Outside.pfx        desktop.ini             logs
mbox                  rec 3 - shared memory      rec3.tar               temp
sftp> put temp_file
Uploading temp_file to /home/grads/dennis/temp_file
temp_file                                100%   0    0.0KB/s   00:00
sftp> get temp_file
Fetching /home/grads/dennis/temp_file to temp_file
sftp> █
```



Note: local file path is relative to where the command was run from

SFTP (Mac / Linux)

```
dennis@dennis-Gazelle-Professional:~$ sftp dennis@linprog.cs.fsu.edu
Connected to linprog.cs.fsu.edu.
sftp> ls
$RECYCLE.BIN          Britton-2013-2-15.pptx      Desktop                Download
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temp_file                                100%   0    0.0KB/s   00:00
sftp> get temp_file
Fetching /home/grads/dennis/temp_file to temp_file
sftp> █
```



File
Download

Note: local file path is relative to where the command was run from

SFTP (Windows w/ PSFTP)

```
psftp> open linprog.cs.fsu.edu  
login as: dennis  
dennis@linprog.cs.fsu.edu's password:  
Remote working directory is /home/grads/dennis  
psftp> ? dir  
Volume in drive C has no label.  
Volume Serial Number is 0820-207D  
  
Directory of C:\Users\Britton Dennis\Desktop  
  
08/30/2016 09:52 AM <DIR> .  
08/30/2016 09:52 AM <DIR> ..  
06/12/2016 12:12 PM <DIR> CGS 2060 Summer B 2016  
07/22/2013 12:24 PM <DIR> code  
08/30/2016 09:27 AM 359,336 pscp.exe  
08/30/2016 09:26 AM 367,528 psftp.exe  
08/30/2016 09:33 AM 911 PSFTP.lnk  
08/30/2016 09:17 AM 531,368 putty.exe  
07/22/2013 12:25 PM <DIR> verilog  
4 File(s) 1,259,143 bytes  
5 Dir(s) 21,776,527,360 bytes free  
psftp> get temp_file  
remote:/home/grads/dennis/temp_file => local:temp_file  
psftp> put temp_file  
local:temp_file => remote:/home/grads/dennis/temp_file  
psftp> _
```



Server

SFTP (Windows w/ PSFTP)

```
psftp> open linprog.cs.fsu.edu
login as: dennis
dennis@linprog.cs.fsu.edu's password:
Remote working directory is /home/grads/dennis
psftp> ! dir
Volume in drive C has no label.
Volume Serial Number is 0820-207D

Directory of C:\Users\Britton Dennis\Desktop

08/30/2016  09:52 AM    <DIR>          .
08/30/2016  09:52 AM    <DIR>          ..
06/12/2016  12:12 PM    <DIR>          CGS 2060 Summer B 2016
07/22/2013  12:24 PM    <DIR>          code
08/30/2016  09:27 AM             359,336 pscp.exe
08/30/2016  09:26 AM             367,528 psftp.exe
08/30/2016  09:33 AM              911 PSFTP.lnk
08/30/2016  09:17 AM             531,368 putty.exe
07/22/2013  12:25 PM    <DIR>          verilog
               4 File(s)          1,259,143 bytes
               5 Dir(s)  21,776,527,360 bytes free

psftp> get temp_file
remote:/home/grads/dennis/temp_file => local:temp_file
psftp> put temp_file
local:temp_file => remote:/home/grads/dennis/temp_file
psftp> _
```

Username

SFTP (Windows w/ PSFTP)

```
psftp> open linprog.cs.fsu.edu
login as: dennis
dennis@linprog.cs.fsu.edu's password:
Remote working directory is /home/grads/dennis
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Volume Serial Number is 0820-207D

Directory of C:\Users\Britton Dennis\Desktop

08/30/2016  09:52 AM    <DIR>          .
08/30/2016  09:52 AM    <DIR>          ..
06/12/2016  12:12 PM    <DIR>          CGS 2060 Summer B 2016
07/22/2013  12:24 PM    <DIR>          code
08/30/2016  09:27 AM             359,336 pscp.exe
08/30/2016  09:26 AM             367,528 psftp.exe
08/30/2016  09:33 AM              911 PSFTP.lnk
08/30/2016  09:17 AM             531,368 putty.exe
07/22/2013  12:25 PM    <DIR>          verilog
               4 File(s)          1,259,143 bytes
               5 Dir(s)  21,776,527,360 bytes free

psftp> get temp_file
remote:/home/grads/dennis/temp_file => local:temp_file
psftp> put temp_file
local:temp_file => remote:/home/grads/dennis/temp_file
psftp> _
```

Password

SFTP (Windows w/ PSFTP)

```
psftp> open linprog.cs.fsu.edu
login as: dennis
dennis@linprog.cs.fsu.edu's password:
Remote working directory is /home/grads/dennis
psftp> ? dir
Volume in drive C has no label.
Volume Serial Number is 0820-207D

Directory of C:\Users\Britton Dennis\Desktop

08/30/2016  09:52 AM    <DIR>          .
08/30/2016  09:52 AM    <DIR>          ..
06/12/2016  12:12 PM    <DIR>          CGS 2060 Summer B 2016
07/22/2013  12:24 PM    <DIR>          code
08/30/2016  09:27 AM             359,336 pscp.exe
08/30/2016  09:26 AM             367,528 psftp.exe
08/30/2016  09:33 AM              911 PSFTP.lnk
08/30/2016  09:17 AM             531,368 putty.exe
07/22/2013  12:25 PM    <DIR>          verilog
               4 File(s)             1,259,143 bytes
               5 Dir(s)      21,776,527,360 bytes free

psftp> get temp_file
remote:/home/grads/dennis/temp_file => local:temp_file
psftp> put temp_file
local:temp_file => remote:/home/grads/dennis/temp_file
psftp> _
```

Find Local
Directory

SFTP (Windows w/ PSFTP)

```
psftp> open linprog.cs.fsu.edu
login as: dennis
dennis@linprog.cs.fsu.edu's password:
Remote working directory is /home/grads/dennis
psftp> ? dir
Volume in drive C has no label.
Volume Serial Number is 0820-207D

Directory of C:\Users\Britton Dennis\Desktop

08/30/2016  09:52 AM    <DIR>          .
08/30/2016  09:52 AM    <DIR>          ..
06/12/2016  12:12 PM    <DIR>          CGS 2060 Summer B 2016
07/22/2013  12:24 PM    <DIR>          code
08/30/2016  09:27 AM             359,336 pscp.exe
08/30/2016  09:26 AM             367,528 psftp.exe
08/30/2016  09:33 AM              911 PSFTP.lnk
08/30/2016  09:17 AM             531,368 putty.exe
07/22/2013  12:25 PM    <DIR>          verilog
               4 File(s)             1,259,143 bytes
               5 Dir(s)          21,776,527,360 bytes free

psftp> get temp_file
remote:/home/grads/dennis/temp_file => local:temp_file
psftp> put temp_file
local:temp_file => remote:/home/grads/dennis/temp_file
psftp> _
```

File
Download

SFTP (Windows w/ PSFTP)

```
psftp> open linprog.cs.fsu.edu
login as: dennis
dennis@linprog.cs.fsu.edu's password:
Remote working directory is /home/grads/dennis
psftp> ! dir
Volume in drive C has no label.
Volume Serial Number is 0820-207D

Directory of C:\Users\Britton Dennis\Desktop

08/30/2016  09:52 AM    <DIR>          .
08/30/2016  09:52 AM    <DIR>          ..
06/12/2016  12:12 PM    <DIR>          CGS 2060 Summer B 2016
07/22/2013  12:24 PM    <DIR>          code
08/30/2016  09:27 AM             359,336 pscp.exe
08/30/2016  09:26 AM             367,528 psftp.exe
08/30/2016  09:33 AM               911 PSFTP.lnk
08/30/2016  09:17 AM             531,368 putty.exe
07/22/2013  12:25 PM    <DIR>          verilog
               4 File(s)             1,259,143 bytes
               5 Dir(s)      21,776,527,360 bytes free

psftp> get temp_file
remote:/home/grads/dennis/temp_file => local:temp_file
psftp> put temp_file
local:temp_file => remote:/home/grads/dennis/temp_file
psftp> _
```

File
Upload