

Setting up Allison Lab Backup System

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Adding a new computer to the backup system

These are some basic instructions to back up a new computer using CrashPlan to the server space provided by BioSci Computing Services. More information on mounting the drive should be located on the network drive under “Z:\System_MountZ\winmappeddrives.pdf”.

Mount network drive on thunder.bio.uci.edu (for new computers)

To connect on a Windows computer running Windows XP/Vista:

- 1) Click the Start menu > My Computer
- 2) In the Menu Bar click Tools > Map Network Drive...
- 3) Under Drive select: Y:
- 4) Under Folder type: \\thunder.bio.uci.edu\allisonlab
- 5) Click the link Connect using a different user name
- 6) In the Connect As... window fill in the fields for your credentials
 - a) User name: bio\allisonlab
 - b) Password: (see note posted in lab)
- 7) Click OK.
- 8) (OPTIONAL): If you don't want to have the drive reconnect on login, uncheck the Reconnect at logon checkbox, (this helps with laptops that are taken out of the lab or temporary usage of the share).
- 9) Click Finish.

To connect with users running OS X

- 1) From Finder click Command-K
- 2) Connect to the following server: smb://thunder.bio.uci.edu/allisonlab
 - a) User name: bio\allisonlab
 - b) Password: same as above

To connect with users running Ubuntu

- 1) Click on Places
- 2) Select Connect to Server
- 3) Service type: select Windows Share
- 4) Fill out with the following information:
- 5) Server: thunder.bio.uci.edu
- 6) Share: allisonlab
- 7) Folder: (leave this field blank)
- 8) User Name: allisonlab
- 9) Domain Name: BIO (all caps)
- 10) Mount to a folder:
 - a) reference <https://help.ubuntu.com/community/MountWindowsSharesPermanently>
 - b) get your **UID**:

- grep \$USERNAME /etc/passwd | cut -d: -f3
- c) create directory to mount folder to
eg: mkdir /home/USER/remote/thunder
- d) create .smbcredentials with 2 lines
username=bio/allisonlab
password=**PASSWORD_HERE**
- e) edit /etc/fstab add following single line:
//thunder.bio.uci.edu/allisonlab /home/**USER**/remote/thunder cifs
iocharset=utf8,credentials=/home/**USER**/.smbcredentials,uid=**UID** 0 0
- f) sudo mount -a

Configure CrashPlan backup software to run as a Windows service

CrashPlan runs as a Windows service; thus you need the network drive to be mounted by the 'system' user instead of through the usual method of mounting it under your user account. Macs and Linux OS can skip this step.

- 1) Connect the network drive via 'system' user on a **non-Vista** machine.
 - a. Copy "System_MountZ" from the network drive folder (the one installed above) to "C:\Program Files\"
 - b. Go to "Start > All Programs > Accessories > System Tools > Scheduled Tasks"
 - c. Select "Add Scheduled Task". Click Next
 - d. Browse to "C:\Program Files\System_MountZ\CrashPlan_Backup.bat". Click Next
 - e. Select "When I log on" as a time to perform task. Click Next
 - f. Enter "system" as the user name, leaving the passwords blank. Click next/finished.
 - g. Restart your computer.
- 2) Connect the network drive via 'system' user on a **Vista** machine.
 - a. Copy "System_MountZ" from the network drive folder to "C:\Program Files\"
 - b. Go to "Start > All Programs > Accessories > System Tools > Scheduled Tasks"
 - c. Click "Change User or Group"
 - d. Enter "SYSTEM" as the object to select
 - e. Confirm that the user account will be "System"
 - f. Add a new trigger that will run on the Log On of Any User
 - g. Add an action which will "Start a Program" and browse that program to "C:\Program Files\System_MountZ\CrashPlan_Backup.bat"
 - h. Click OK
 - i. Restart your computer.
- 3) Check that you have correctly logged on by looking at "C:\Program Files\System_MountZ\mount.log". There should be a line with the current date/time that says something like "Successful Connection". "Z:" drive will appear to be disconnected; this is fine as long as you can see it in CrashPlan.
- 4) Download and install CrashPlan www.crashplan.com (The 'Store' tab has a freeware version you can download)
- 5) You need Dr Allison to enter his account information during the install

- 6) Select the files you wish to backup via CrashPlan's interface
- 7) Set the backup location to be your "Z:" drive, this is the newly mounted drive. Note that if you try to navigate to it on your computer directly you will be told that it is disconnected, this is because it is mounted under "system" and not your user name. Good for CrashPlan but bad for navigating to it.
- 8) Go to "Settings > Account" in CrashPlan and note your Computer ID number (18 digits long) **DOUBLE CHECK THIS NUMBER!** Send this to Dr Allison for recovery purposes and add it to the list posted in the lab.

Recovery without original computer

In case the computers are stolen or otherwise physically broken the files can still be recovered using CrashPlan. It is recommended that you use the support wiki <http://support.crashplan.com/doku.php> for more detailed instructions. However the basic idea is that you assign a new computer the same computer ID as the old computer and restore the data from the backup.

http://support.crashplan.com/doku.php/how_to/reconnect_existing_backup

Recreating CrashPlan_Backup.bat

The bat file consists of two lines:

```
echo %date% %time%: "%cd%\mount.bat" >> "%cd%\mount.log" 2>&1 2>&1
```

```
net use Z: \\thunder.bio.uci.edu\allisonlab /USER:bio\allisonlab password_here
```

```
>>"%cd%\mount.log" 2>&1 2>&1
```

Note that there must be a "mount.log" file in the same directory as the .bat file.