

Bullet Proofing Your Genealogy

An Introduction to Computer Automated
Backup, Protection and Performance



*Making Friends With Your Computer and
Your Genealogy Records*

Bullet Proofing Your Genealogy Introduction

- Bullet Proofing Goals
- Records Back Up
- Computer Defense Against Predators
- Computer Tune-up
- Computer Automation *(A Scheduling Task)*
- My System Schematic - *(If There Is Time)*
- This work-in-progress will be posted on the BAGS Website at <http://txbayareagen.org/programs>



Presentation Goals

Find & Plan the Implementation of Tools that

- Are Free or Minimum Cost
- Are Trustworthy
- Have Proven Restoration Ability
- Are Easy to Implement
 - You Can Do It Easily (*Maybe With a Little Help*)



Records Back Up

- We Think About Data Backup 10 Minutes After It's Too Late to Do Any Good
- We Realize We Really Need a Good Backup Program *After* the Hard Disk Has Crashed
- Some Other *Cute* Trick That Sets Us up With a Data Disaster
- We Are Not Prepared to Lose Our E-mail Address Book and All Our Messages?



Records Back Up

- What If Our Entire Genealogy Collection Disappeared in a Puff of Electrons?
- How About Other Records Like Electronically Filed Tax Return or Critical Correspondence?
- Backing up Essential Files Is Neither Difficult nor Time-consuming
- In Fact, the Whole Process Can Take As Little As 10 Minutes a Week and Windows XP Does the Work Plan



Records Back Up - Get Started

- Before You Can Even Think About Creating a Backup You Should Get Your Files in Order.
- Not to Compulsively Rearrange Every File in Every Folder
 - Move Essential Data Files Are Stored in One Easy-to-find Location (*My Documents*)
 - Move the Location Application of application files to My Documents



Records Back Up - Get Started

- Windows XP Makes This Task Especially Easy by a Set of Subfolders in
 - The Documents and Settings Folder
 - My Documents Folder
- Your Profile Holds Your Personal Files
 - My Documents Folder
 - Outlook Express E-mail Messages
 - Internet Explorer Favorites
 - Cookies
 - Settings and Preferences



Records Back Up - Get Started

- Consider Moving Data Files Into the My Documents Folder to Make Backing up Easier
(the Why Discussed in Automation Later)
 - Software Applications Like
 - Quicken or Microsoft Money
 - The Master Genealogist or Family Tree Maker Etc.
 - TurboTax
- If You're Unwilling / Unable to Move Those Files
 - At Least Note Their Location to Add Them to the Backup Set Later



Records Back Up

- Raise Your Hand if You Protected Your Genealogy Records from a Catastrophe
(Computer or Paper)

– This Week?



Records Back Up

- Raise Your Hand if You Protected Your Genealogy Records from a Catastrophe
(Computer or Paper)
 - This Week?
 - This Month?



Records Back Up

- Raise Your Hand if You Protected Your Genealogy Records from a Catastrophe
(Computer or Paper)
 - This Week?
 - This Month?
 - Last 6 Months?



Records Back Up

- Raise Your Hand if You Protected Your Genealogy Records from a Catastrophe
(Computer or Paper)
 - This Week?
 - This Month?
 - Last 6 Months?
 - Never?



Records Back Up

- Raise Your Hand If You Are Comfortable With the Way Your Records Are Protected
- How Did You Protect Them?
- If Lightning Zapped Your House or Computer Tonight
 - Would You still have Records?



Records Back Up

- Would You Have a Clean Backup If a Virus, Malware, Trojan, or Spyware Damaged Your Computer?
- Would You Have to Start Over?
- How Much Is Your Family Tree and History Worth?



Records Back Up

- Disaster Planning of Backups Is Essential to Saving Your Genealogy and Computer Records
- Wildfires in Southern California or Hurricanes in New Orleans
 - How Many in Southern California Lost Their Records?
 - How Many in New Orleans were Water Logged?
- You Can Never Be Too Prepared for Catastrophe

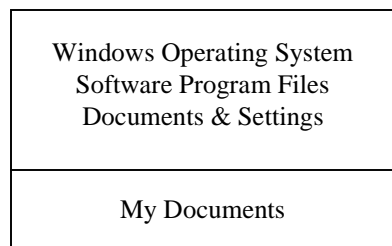


Records Back Up

- Disaster Planning of Backups Is Essential for Your Data AND
 - Knowing How to Recover It
 - *You Like Doing Re-Research?*
- Computer Defense Is Essential and an Absolute Must in the Internet World
- Careful Planning Backups and Virus Protection will Make Sure You're Prepared for the Worst Case.

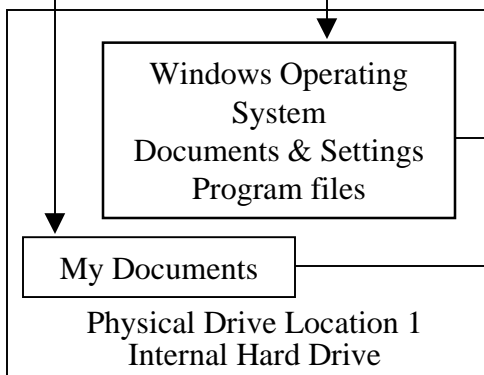


Media to Backup



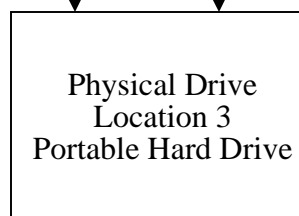
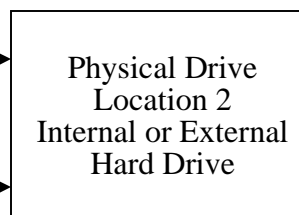
Syncback

Acronis



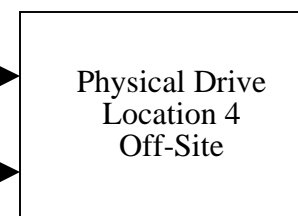
Syncback

Syncback



IP Software

IP Software



Records Back Up

- Some Software Packages Ask to Backup As You Exit
 - Is That Enough?
 - Would You Need More?
- How Many Backups Do You Think Are Needed?



Records Back Up

Four Is Suggested to Cover

1. Hard Drive Failure or Damaged Files
2. Complete Failure of Your Computer
3. Backup of an Infected Computer
4. Total Loss of All Records From Disaster
Wild Fire, Flood, Hurricane, Etc.

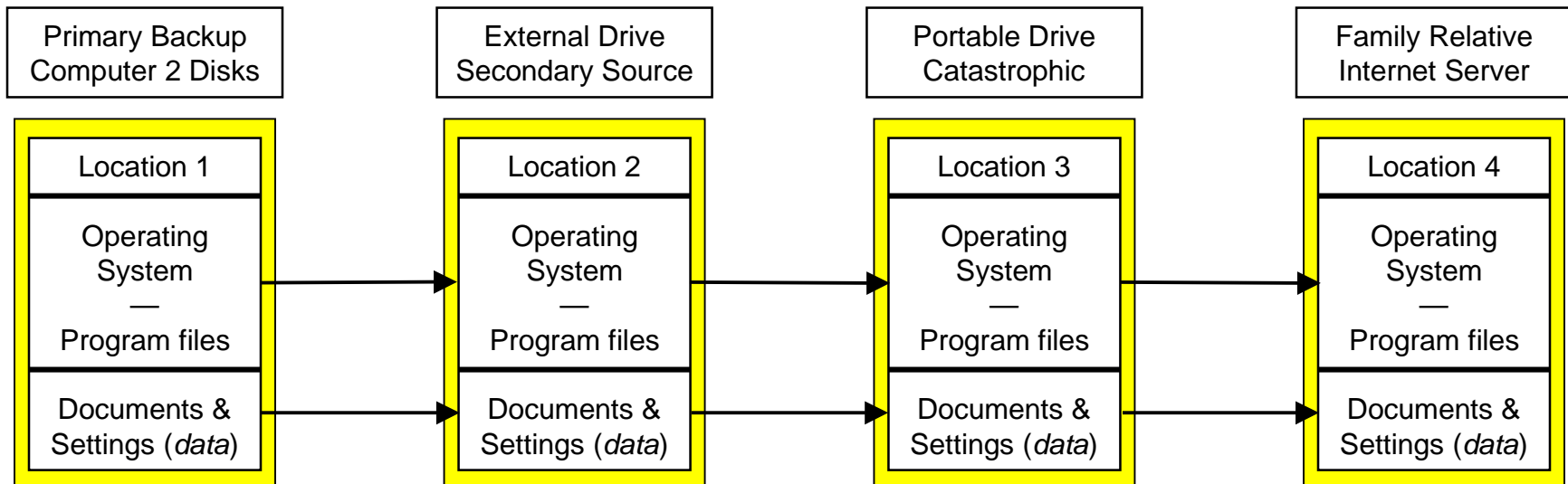


Records Back Up

- Where Would the Backups Be Located?
- What Hardware Would Be Needed?
- What Software Would Be Needed?



Backup System Schematic



Why Backup This Level

Hard Drive Crash or Damaged Files

- Internal Drive
- External Hard Drive Location
- In the Computer Case or in Close Proximity

Why Backup This Level

Complete Failure of Your Computer

- External Drive
- Separated From Computer - USB Location
- External Drive Located Somewhere in the House

Why Backup This Level

Backup of an infected computer

- Adulterated Records with a Virus, Malware, Trojan, Worm, Malicious code
- Discovery after the backup process Location
- External Drive Somewhere in the House

Why Backup to This Level

Total Computer Loss

- Disaster Wild Fire, Flood, Hurricane
- Visualize What Would Have Happened to Your Genealogy If You Lived in Southern California Location
- Somewhere Away From the House on CD, Flash Drive, or Network Server



Records Back Up

1. Hard Drive Crash or Damaged Files

- Backup to an Internal Drive (Preferred/faster)
- Backup to an External Hard Drive

Location

- In the Computer Case or in Close Proximity



Backup Software

Clone Maxx

Dubaron Diskimage

Selfimage

Driveimage XML

g4u - Harddisk Image Cloning
for PCs

SystemRescueCD

Ultimate Boot CD

DiscWizard for Windows

BackupPC

Open Source Backup

Microsoft Synctoy

Unison File Synchronizer

PowerQuest Drive Image
2002

HDClone Free Edition

MaxBlast



Records Back Up

2. Complete Failure of Your Computer

- Backup to an External Drive
- Separated From Computer - USB

Location

- External Drive Located Somewhere in the House
Away From the Computer



Records Back Up

3. Backup of an Infected Computer

- Adulterated Records With a Virus, Malware, Trojan, Worm, Malicious Code
- Discovery After the Backup Process

Location

- External Drive Somewhere in the House



Computer Defense

Some Available Scanning and Detection Software
With Thousands and Thousands of Damaging Applications Attention
to Updating and Regularly Running Prevention Software Is a Must

AD-Aware

AVG Updater

AVG

AVG Free Edition

Update Service

AVG Anti-Root Kit

Advanced Disk Cleaner

Windows Defender

Windows Malware Removal

Windows Malicious Software
Removal Tool

SpyBot Updates

SpyBot S&D

SpyBot Tea Timer

Spyware Blaster

Spyware Blaster Update

Panda

McAfee

Norton

Windows Firewall

Network Router Firewall



Records Back Up

4. Total Computer Loss

- Disaster Wild Fire, Flood, Hurricane
- Visualize What Would Have Happened to Your Genealogy If You Lived in Southern California

Location

- Somewhere Away From the House on CD, Flash Drive, or Network Server



Records Back Up - Online Backup Services

- After you have selected a service you will need to
 - set up an account
 - select a service package
 - pay for your service
 - download the software
 - install it on your computer.



Records Back Up

Top Online Backup Services

MediaMax

OmniDrive

Mozy

Carbonite

More with a search



Records Back Up - Online Backup Services

- The Major Concern Is the Security of Files on their System
- Early Backups had problems with Security
- Now Most Offer Encryption and Strict Permission Security Features for Gateway Access
- Several have Storage up to 100 GB and at Reasonable Prices—Some Free



Records Back Up - Online Backup Services

Online Backup Services

- A Concern Used to Be Slow Uploading and Retrieval of Files From a Remote System
- High Speed Internet Connection Have Improved Access to Backup Services



Records Back Up - Online Backup Services

- In Most Cases You may Only Back up Your Entire System Once a Week
- Incremental Backups More Often
- In Most Cases Important Files Once a Week or Once a Day, Depending on How the Files Are Changed
- After Your Files Are Uploaded
 - Can Access Them by Logging Into Your Account
 - Selecting the Files That You Want to Access
 - Selecting to View or Download the Files.



Computer Defense Against Predators Infection and Damage Prevention



Computer Defense

Backing up Your Files Is Like Insurance

- When You Don't Need It Costs too Much
- When You Do Need It you don't have Enough



Computer Defense

- Surfing the Internet Can Be Dangerous Unless Your Protected From
 - Dialers
 - Hackers
 - Malware
 - Spybots
 - Trojans
 - Viruses
 - Phishing



Computer Defense

Dialers

- A Program That Is Often Used to Maliciously Redirect Internet Connections
- When Used It Disconnects the Legitimate Telephone Connection Used to Connect to the Internet and Reconnects Via a Premium Rate Number (1-900 Numbers)
- Often, the First Indication a User Has of This Activity Is an Extremely Expensive Phone Bill,
- Malicious Dialer Programs Are a Type of Spyware That Can Install Itself to Your Dial-up Settings.



Computer Defense

Hackers

- A Derogatory Connotation That Describes Individuals Who Gain Unauthorized Access to Computer Systems for the Purpose of Stealing and Corrupting Data. Hackers, Themselves, Maintain That the Proper Term for Such Individuals Is Cracker

Malware

- Short for Malicious Software, Software Designed Specifically to Damage or Disrupt a System, Such As a Virus or a Trojan Horse



Computer Defense

Spyware

- Software That Covertly Gathers User Information Through the User's Internet Connection Without His or Her Knowledge, Usually for Advertising Purposes
- Spyware Applications Are Typically Bundled As a Hidden Component of Freeware or Shareware Programs That Can Be Downloaded From the Internet
- The Majority of Freeware and Shareware Applications Do Not Come With Spyware



Computer Defense

Spyware -con't

- Once Installed, the Spyware Monitors User Activity on the Internet and Transmits That Information in the Background to Someone Else
- Spyware Can Also Gather Information About E-mail Addresses and Even Passwords and Credit Card Numbers



Computer Defense

Trojans

- A Destructive Program That Masquerades As a Benign Application. Unlike Virus, Trojan Horses Do Not Replicate Themselves but They Can Be Just As Destructive
- One of the Most Insidious Types of Trojan Horse Is a Program That Claims to Rid Your Computer of Viruses but Instead Introduces Viruses Onto Your Computer



Computer Defense

Viruses

- A Program or Piece of Computer Code That Is Loaded Onto Your Computer Without Your Knowledge and Runs Against Your Wishes. Viruses Can Also Replicate Themselves
- All Computer Viruses Are Manmade
- A Simple Virus That Can Make a Copy of Itself Over and Over Again Is Relatively Easy to Produce
- Even a Simple Virus Is Dangerous Because It Will Quickly Use All Available Memory and Bring the System to a Halt
- An More Dangerous Virus Is One Capable of Transmitting Itself Across Networks and Bypassing Security Systems



Computer Defense

Phishing

- Sending an E-mail to a User Falsely Claiming to Be an Established Legitimate Enterprise to Scam the User Into Surrendering Private Information Used for Identity Theft
- The E-mail Directs the User to Visit a Website Where They Are Asked to Update Personal Information, Such As Passwords and Credit Card, Social Security, and Bank Account Numbers
- No Legitimate Organization Will Ask for It
- The Web Site, However, Is Bogus and Set up Only to Steal the User's Information



Computer Tune-up



Computer Tune-up

- Tools That Improve Computer Performance
 - De-fragment All Disks
 - Routinely Remove Temporary Files



Computer Automation



Computer Automation

I feel like the vacuum cleaner salesman who just dumped dirt and trash on your new carpet and asks,

“Do you want me to clean it up?”

Well we will just automate it



Computer Automation

- Automating Backup of Genealogy Records and Operating System
- Automatic Update of Damage Control Software
 - Automating Scans for Dialers, Hackers, Malware, Spybots, Trojans, Viruses & Phishing
- Automating Computer Tune-up
- SET IT AND FORGET IT (almost)



Computer Automation

- If You're Disciplined Enough, You Can Repeat the Above Steps Once Each Week and Perform Regular Backups When Ever You're Ready.
- If You'd Rather Not Count on Remembering to Perform This Crucial Task, However, Set up an Automatic Backup Schedule for Windows.



Computer Backup, Prevention, & Performance Automation



Computer Automation

- Automation of the Back-up and Scanning Actions Is Accomplished by Windows Resident
 - Task Scheduling Capability
 - Hibernation (& Standby)
- Automation Should Be Run at a Time When You Are Not Using the Computer
 - The Actions Can Take up Most of the Computers Processing Capability
 - Better Overnight



Computer Automation

- Windows Hibernation was intended as a power saving capability
- The Debate is
 - Powering Down PC Components Is Counter-productive Because of the Effect on Component Life
 - Other Things Being Equal, Electronic Components are more Stable and don't have Electrical Loading and Running Temperature at startup



Computer Automation

Windows Hibernation -con't

- Use Windows XP's Hibernation Feature on Your Computer to Put Your System to Sleep at the End of the Day Rather Turning It off
- Your System Can be Made to "Wake Up" to Run The Back-up and Scanning Tasks you've Scheduled
- How to Set up This Schedule Will be Explained in the Workshop



Schedule Tasks Window Snapshot

Name	Schedule	Next Run Time	Last Run Time
Add Scheduled Task			
SyncBackSE Copy Secondary System BU to ...	At 8:00 PM every Sun of every week, starting 10/14/2007	8:00:00 PM 11/11/2007	Never
SyncBackSE Copy Primary Backup to Second...	At 9:00 PM every Sun of every week, starting 10/14/2007	9:00:00 PM 11/11/2007	9:00:00 PM 11/4/2007
SyncBackSE Copy Primary System Backup to...	At 9:30 PM every Sun of every week, starting 10/14/2007	9:30:00 PM 11/11/2007	Never
MP Scheduled Scan	At 12:00 AM every day, starting 11/9/2007	12:00:00 AM 11/12/2007	12:00:00 AM 11/11/2007
Spyware Blaster Update \$	At 1:00 AM every Mon, Wed, Fri of every week, starting ...	1:00:00 AM 11/12/2007	1:00:00 AM 11/9/2007
Spyware Blaster	At 1:30 AM every Mon, Wed, Fri of every week, starting ...	1:30:00 AM 11/12/2007	1:30:00 AM 11/9/2007
AD-Aware Update	At 3:00 AM every day, starting 10/2/2007	3:00:00 AM 11/12/2007	3:00:00 AM 11/11/2007
Ad-Aware2007	At 3:30 AM every day, starting 10/2/2007	3:30:00 AM 11/12/2007	3:30:00 AM 11/11/2007
AVG Updater	At 4:30 AM every day, starting 10/2/2007	4:30:00 AM 11/12/2007	4:30:00 AM 11/11/2007
AVG Free Scan	At 5:00 AM every day, starting 10/2/2007	5:00:00 AM 11/12/2007	5:00:00 AM 11/11/2007
AVG Root Kit	At 6:00 AM every Mon, Tue, Wed, Thu, Fri of every wee...	6:00:00 AM 11/12/2007	6:00:00 AM 11/9/2007
AppleSoftwareUpdate	At 9:06 AM every Mon of every week, starting 10/4/2007	9:06:00 AM 11/12/2007	9:06:00 AM 11/5/2007
SyncToy	At 3:00 AM every Tue, Thu, Sat of every week, starting ...	3:00:00 AM 11/13/2007	3:00:02 AM 11/10/2007
SpyBot S&D	At 3:30 AM every Tue, Thu, Sat of every week, starting ...	3:30:00 AM 11/13/2007	3:30:00 AM 11/10/2007
SpyBot Update	At 4:00 AM every Tue, Thu, Sat of every week, starting ...	4:00:00 AM 11/13/2007	4:00:00 AM 11/10/2007
Defrag Study C	At 4:00 AM every Sun of every week, starting 8/24/2007	4:00:00 AM 11/18/2007	4:00:00 AM 11/11/2007
Defrag Study D	At 5:00 AM every Sun of every week, starting 8/25/2007	5:00:00 AM 11/18/2007	5:00:01 AM 11/11/2007
Clean All Disks	At 5:45 AM every Sun of every week, starting 10/2/2007	5:45:00 AM 11/18/2007	5:45:00 AM 11/11/2007
SyncBackSE Copy Secondary to Tertiary	At 8:30 AM every Sun of every week, starting 10/14/2007	8:30:00 AM 11/18/2007	Never

Make a Hardware and Software Wish List for Christmas, Hanukkah, Ramadan, Quanza, or Birthday

Show off Your Technical Smarts to Your Family, Relatives, and Friends

Program	Uptdt	Sun	Mon	Tue	Wed	Thu	Fri	Sat
DeFrag All Disks		X						
Advanced Disk Cleaner		X						
AD-Aware			X	X	X	X	X	X
AVG Updater			X	X	X	X	X	X
AVG Update Service			X		X		X	
AVG Free Edition			X		X		X	
AVG Anti-Root Kit			X		X		X	
SpyBot Updates				X		X		X
SpyBot S&D				X		X		X
SpyBot Tea Timer				X		X		X
Spyware Blaster			X		X		X	
Spyware Blaster Update			X		X		X	
Advanced Disk Cleaner		X						
Windows Defender @2am			X		X		X	
Full Back Up Study		X						
Full Back Up Quilt Room		X						
Full Back Up Laptop		X						
Partial Backup Study				X		X		X
Partial Backup Quilt Room				X		X		X
Partial Backup LapTop				X		X		X
Full&Partial Backup Drive D>	X							
Full&Partial Backup Drive H>	X							
Full&Partial Backup Drive I>C	X							
Data Back Up Study				X		X		X
Data Back Up Quilt Room				X		X		X
Data Back Up LapTop				X		X		X
AD-Watch								
AD-Guard								
Spyware Guard								
Advanced System Optimizer								
Pest Patrol								
Pest Patrol Updater								

