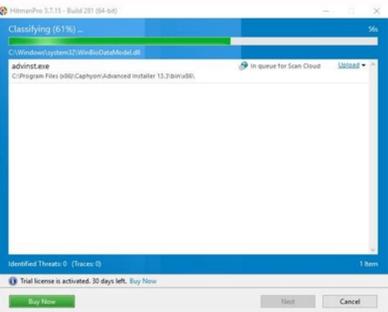


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The best way to recover from unexpected data loss is to be properly prepared. With one of the following tools on hand, you'll always be ready to save your data from the Reaper. Photo by Matalyn. While the best defense against data loss is redundant and real-time backup, we understand that sometimes data loss sneaks right up on you. Whether your vacation pictures didn't make it safely from your camera to your computer or a bumbling roommate deleted the paper you've been working all week on, having emergency data recovery tools handy is crucial to getting your data back before it's gone forever. Earlier this week we asked you to share your favorite data recovery tools with us. We tallied up your favorites and now we're back with the nominees for best free data recovery tool. TestDisk (Windows/Mac/Linux)/G/O Media may get a commission. TestDisk is a powerful open-source tool for recovering your data. Not only can TestDisk perform basic file recovery like undeleting accidentally deleted files from FAT, NTFS, and ext2 file systems, but it comes with a host of additional functionality. With TestDisk you can recover your boot sector from a backup, rebuild your boot sector, fix FAT tables, fix your MFT, locate the ext2/ext3 backup SuperBlock, copy deleted files from partitions to recovery media, and find lost partitions in dozens of formats to help you locate your lost data. It's a command line tool, so there's no GUI, but the menus and the documentation in the wiki should get you started without much trouble. Recuva (Windows) Recuva is a user-friendly Windows-based tool. When you run Recuva, you can resurrect missing files using either the file-recovery wizard or the application's manual mode. The file-recovery wizard is handy when you're sure your data is gone but you're not quite sure where it went or how to get it back. The wizard lets you narrow your search type to pictures, music, documents, video, or all files, and you can set the search location to everywhere on your computer, removable media only, in My Documents, the Recycle Bin, or a specified location. If you don't need the wizard you can jump right into manual mode and get to work searching where you know the file should be. Recuva uses a green/yellow/red light system to indicate how probable the recovery of your files will be, and when available, it can provide previews image files available for recovery. Recuva also includes a tool to securely wipe files you find, handy if you're attempting a file recovery just to ensure the files are actually dead and gone. PhotoRec (Windows/Mac/Linux) PhotoRec is a companion program to TestDisk, also included in this Hive Five. Like TestDisk, this app is also devoid of a GUI, but likewise is quite powerful at file recovery. We're including PhotoRec independently of TestDisk because many users distinctly prefer PhotoRec as a safer alternative when deep disk recovery isn't necessary. This recovery tool won't mess with your partitions or help you rebuild your master boot record; it will, however, dive into your disks in a safe, read-only mode and ignore partitions and file systems in an effort to seek out your missing files. PhotoRec focuses on file types, is operating-system agnostic, and despite its name, isn't relegated to just photos. Overall, PhotoRec is a powerful tool for quickly and safely copying your deleted files to another disk. Restoration (Windows) Restoration is a tiny, no-frills, portable recovery tool. You can use it in all versions of Windows and Windows file systems. It lacks some of the advanced functionality of other nominees but does have basic file-name search and the ability to sort by file parameters such as size and filename. Despite its tiny size, it performed just as well as the other nominees when tasked with restoring files from our test disks. Restoration weighs in at a mere 406k and would make a great addition to any Windows-based USB toolkit. Undelete Plus (Windows) Undelete Plus used to be commercial software but has gone on a lengthy "limited time offer" freeware run. This file recovery app works on all versions of Windows and incarnations of the FAT and NTFS file systems. Like Recuva, Undelete Plus assigns a recovery probability to files it finds based on how damaged the file is. You can sort files by type, set filters based on time and size to avoid sifting through every deleted file on your disk, and keep folder structures intact when you perform your recovery. Now that you've had a chance to look over the contenders for best free data recovery tool, it's time to cast your vote and see who wins the crown. If you have a file-recovery tip, technique, or tool you're dying to share, sound off in the comments and help your fellow readers get their data back. Apple recently focused much of its marketing on how secure the iPhone is. The company often stresses that nobody, not even law enforcement, can get into your Apple-secured data without a fight. (Image credit: ymgerman/Shutterstock) But now there's a new tool that claims to crack open iPhones easily, even those on the most recent software patch. Cellebrite, an Israeli company that makes data extraction and analysis devices, now offers UFED Premium, a service that claims it can break into iPhones running iOS 7 - 12.3, as well as Samsung's Galaxy S6, S7, S8 and S9 models and Motorola, Huawei, LG and Xiaomi handsets. As reported by AppleInsider, the extract and decode software is available to the military, law enforcement and intelligence communities, and can crack passwords and extract the content held on the device. It is "on-premise" software, meaning it can be run on an organization's own computers rather than sending the data or the phone to Cellebrite for processing. MORE: Key iPhone 11 Feature Tipped By iOS 13 Beta Historically, Apple doesn't like the police or anyone else using exploits in iOS to open up suspects' phones. This most notably happened in the aftermath of the 2015 San Bernardino shooting, during which Apple and the FBI struggled to come to a compromise. The dispute was eventually rendered irrelevant when the FBI used a third party company to open up the suspect's iPhone instead. Cellebrite is believed to have been the unnamed company involved in this effort, according to an Israeli news report. Cellebrite has also appeared in the news when some of its tools, intended only for government use, ended up on eBay at low prices. This, along with governments around the world trying to make changes to privacy legislation to permit law enforcement access to encrypted messaging, are the main reasons why digital privacy remains a hotly contested topic. Of Course iPhone Apps Spy on You: Here's What to Do About It Image: Mackenzie Burke Apple just wrapped up their Fall 2022 event, Far Out, which featured new announcements in the Apple line up including the iPhone 14, Apple Watch Ultra, AirPods Pro 2, and much more. TechRepublic's Clarence Reynolds talks with Tamara Scott and Kaiti Norton to discuss the event and the soon to be released tech. 08:38 Published: September 12, 2022 Modified: September 12, 2022 Read More See all videos Innovation Tom Merritt shares TOP500's ranking of the best supercomputers this year. 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For the full step-by-step guide, head to: 01:13 Published: June 23, 2022 Modified: June 23, 2022 Read More See all videos Developer Jack Wallen shows you how to extend the Docker Desktop feature set by adding Portainer into the mix. For the full step-by-step article, head to: 01:31 Published: June 21, 2022 Modified: June 23, 2022 Read More See all videos Developer Jack Wallen shows you what might be the easiest method of transferring files between Linux desktops on the market. For the full step-by-step article, head to: 01:38 Published: June 17, 2022 Modified: June 17, 2022 Read More See all videos Russian hackers hold a casino site hostage, a Venezuelan town mistakes disk drives for RAID array. Three adventure tales from CBL Data Recovery. CBL Data Recovery Technologies Inc. completed 21,000 projects last year, according to president and CEO William "Bill" Margeson. Co-founded by Margeson in 1993, CBL currently operates 17 labs and 21 office locations worldwide. The company tackles all types of problems, from failed digital media and tapes to optical cartridges, disk drives and RAID arrays, he said. "A data recovery company has to be able to cope with just about anything," said Margeson, who shared three of his favourite data recovery adventure stories with Computerworld Canada during our visit to the CBL lab in Markham, ON. Russian hackers held a gambling site hostage for ransom We got a call from an Internet Service Provider in Costa Rica, an unusual ISP that hosted Internet gambling sites. Apparently, Russian hackers had broken into their bunker, encrypted five servers and held them for ransom. (This would be akin to breaking into the Pentagon. These guys are good.) We got this call on a Wednesday. What did we do? The best we could offer at that point was a remote look. We confirmed they were encrypted. Our advice to them was to send us the media. But instead, they elected to pay the ransom. On Friday, they called us back. Apparently, they paid the ransom and when the Russian hackers attempted to decrypt the machines, four of them came across okay, but the fifth server — the one that had 60GB of Visa card information — blew up. What was interesting is the Russian hackers spent about 12 hours working with the casino guys trying to solve the problem. (I thought they would just take the money and run, but they didn't.) They kind of messed things up a little more. On the Saturday, we were visited by one of the principals of the company himself, who hand-carried all the disk drives from that Visa card server and brought them to our lab. He's the only man who's ever read every single word in our fine-print. This was very important to him. He didn't sleep very much, but neither did we. Seventy-two hours later, we learned that Exchange databases arranged the data with a serial number, so we wrote a program. We did a little bespoke programming that stripped out all the records. Then we wrote another program that put them back together in the order we liked. The problem was, when you encrypt something you need space — a temp file — big enough to encrypt. The Russians didn't look and there wasn't enough space on the original drive, so when they started to encrypt, everything blew up. It took our two little bespoke programs to put all the bits back together again and the casino guy got on the plane 72 hours later. Their loss was something in the neighborhood of \$135,000 a day, so it was important he get back to work. Venezuela mistakes disk drives for organ transfers A few years ago, there were some mud slides in Venezuela. The entire town was under — waist deep in mud. We got a call from an IBM man who was down there attending to the crises. He alerted us he was sending three different servers — the disk drives only — to use for recovery. What we were looking for was the engineering drawings, the sewer system, the civil engineering drawings — they had to find their city again. But there was a mistake in judgment at the time of shipment. We couldn't believe it — someone had elected to put all the individual disk drives into some baggies and, like organs being transported, they did the best they could. They took all their years of experience and creative thought. They tackled the problem and reinitialized the server and invoked something they had no knowledge of — the scrub function. After about 10 to 15 minutes, one of them said, "My God, what have we done?" He powered off the RAID array. It was a good thing he did. Both of the men went upstairs and resigned from their jobs, thinking they had made things totally unrecoverable. The entire 25-drive array showed up at our lab about eight hours later. They also sent with it their tape backup. (We always ask, "Where is your backup? What's wrong with it?" Sometimes the backup is old, sometimes there is problems with it, but some data is better than no data.) We began to do our job recovering. It takes a long time to really scrub all 25 drives. Yes, they scrubbed quite a bit of it, but there was still data there not easily accessible. As the team began to recover from the servers the best they could, we began Plan B, which was to work on the tapes. They had actually taken a sample of the data that they tried to restore and sent it to the tape drive manufacturer. They got an instant reply and the instant reply had diagnosed the data as junk. However, at midnight in our lab, with half the team working on the server, the other half started to look at the tape. Lo and behold, what we found was an old backup of the target data. This old backup was very useful because by dawn, all we could recover from the 25-drive array was about 85 per cent of the target data. But you put the two together, and we had 100 per cent of the target data by 9:00 a.m. the next morning.

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