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How to recover data from internal storage

Cancer registers collect many different types of data, including the patient's demographic data, the characteristics of the tumor (cancer), the treatment and results and results. After collecting the data, the registers store and manage them. Cancer data collection begins by identifying people with cancer who have been diagnosed or received cancer care in hospitals, in outpatient clinics, radiology departments, doctors offices, laboratories, surgical centers or others Suppliers (such as pharmacists) diagnosing or treat patient cancer. All 50 states have the laws that require newly diagnosed can be reported to a central register. Cancer records review these reported cases and determine whether this information is reportable according to the law. If so, registers take cancer information as required by the North American Association of Central Cancer Registers (NAACCR) Standard of Data Record Data for such cases. The information collected by cancer logs can be inserted into different categories: patient demography: demographic patient information identifies the cancer patient. Includes the name, age, sex, race, race, ethnicity and the patient's birthplace. Tumor characteristics (cancer): The characteristics of the tumor describe the types of tumor cells, the biological and clinical aspects of malignity (like the body of the body in which cancer has begun), and now genomic information on the tumor (like biomarkers Specific that could expect results or response to specific therapies). Stage of the disease: The stage of cancer describes the extent of the disease, such as to what extent cancer has spread. This information shall inform you if a cancer has been diagnosed in advance or late and which treatment plans should be considered. Treatment: treatment information capture the various options selected to treat the patient of cancer, such as surgery, radiotherapy, chemotherapy, hormonal therapy and immunotherapy. RESULTS: The results information consist of the patient's vital state, cause of death and survival time. The cancer records therefore store the data collected and manage them in a safe environment. Privacy information The relevant regulations, policies and laws are strictly implemented to guide the management of information in cancer registers. These measures protect the privacy and confidentiality of cancer patients, doctors and other health professionals and health facilities. Next Section: Dissemination "When it comes to storing data, there is no" unique-size-to "solution, says Orlando Scott-Cowley, messaging, safety and evangelist storage at Mimecast, a cloud and a storage and safety of Furniture data Profider. First to decide where or how to store your structured and unstructured data, "Companies must first understand the quantity and type of data that have together with the motivation behind information storage," says Cowley. "Having this Background helps to determine which path to take, which builds on-premise solutions or moving to the cloud "or a combination of the two. How to formulate that audio data storage management strategy? CIO.com asked dozens of storage experts and Data management, which led to these first 14 suggestions related to what steps needed to choose the right data storage solution for yours Organization - and how you can ensure that your data is better properly protected and recoverable.1. Know your data "All data is not created equal - and understanding the value Data is fundamental to defining the storage strategy ", DiceSouvik Choudhury, Senior Director, product management of Availability Sungard services. So when you formulate your data storage management criterion, ask the following questions: How much Do you need data if you haven't lost? How fast is to access the data? How long do I need to store data? How safe? Which regulatory requirements must be respected? 2. Do not neglect unstructured data. "Think about how you might want to combine multi-structured multi-structured data Your transactional systems with semi-structured or unstructured data from e-mail servers, network file systems, etc. , "says Aaron Rosenbaum, director, product management, MarkLogic, a supplier of database solutions." Make sure the data management platform choose lets you combine all these types without months or years of data modeling efforts. "3. Understanding your compliance needs." If you are a company negotiated publicly or operating within a highly regulated industry such as financial or health services, the bar has been set up high for compliance and safety, "says Jay Atkinson, CEO of Cloud Hosting Provider AIS Network. " If you choose to outsource the storage and management of data, make sure that the managed service provider has the credentials necessary to provide a highly safe and compliant environment. Failure to operate the total compliance can lead to serious penalties in the following ", says ATKINSON 4. Establish a data storage criterion." Setting the right data storage policies is a need for both internal data governance and legal compliance, "says Chris Grossman, vice senior president, business applications, archive of Rand Worldwide and Rand Secure Archive, a solution supplier of storage and data management. "Some data must be stored for many years, while other data may only be needed for days." "When setting processes, identifying the most important data of the organization and gave priority to resources of Storage management appropriately, "says Scott-Cowley." For example, the e-mail could be the maximum priority of a company, but to store and store e-mail data for a particular group, let's say that managers can be More critical than other groups, "he says." Make sure these priorities are set so that data management resources can be focused on the most important activities. "5. Look for a solution that fits your data, I don't know in another way." Many think that the only choice to do is if they need Das, a San or a NAS, "says Olivier Thierry, Chief Pivot3 Marketing Officer, the supplier of shared storage devices converged and highly available and virtual equipment. "These are important choices, but they are insufficient", continue ". While a saint of fiber gauge could be great to make a lot of low reading / writing latency operations on a fairly structured database, it is not typically designed to do well to spikey workloads not structured videos, "says Thierry. So "Instead of selecting a unique-complete adaptation strategy, the most intelligent buyers are now considering the characteristics of the workload and collecting the right storage strategy for work." Similarly, "Search for a solution that provides the flexibility of Choose where data is stored: In the premise and / or in the cloud ", says Jesse Lipson, founder of ShareFile and VP & GM of data sharing on Citrix." The solution should allow us to exploit existing investments in data platforms such as shares of network and SharePoint. "And if as many companies these days you have a mobile workforce, the management solution of the Data and the storage solution you choose "should be optimized for mobile and virtual platforms, as well as desktops and laptops - and provide a consistent experience in any platform, including mobile modification features and an intuitive experience between mobile devices, desktop Virtual or desktop. "6. Do not let the costs in advance of your decision." The real cost of storage derives from the functioning of the solution for several years ", Antony Falco, co-founder and CEO of Orchestrate.io. So "make sure you really understand your operating costs [or total cost of properties]: personal, third-party support, monitoring, even the possibility you will lose data, which certainly leads a cost," he says. "Everything quickly nano the initial costs to buy and implement". "Many users buy storage (systems or services) due to great initial discounts or neglect to think through the costs of their storage years chosen at the bottom of the road," adds Jon Hiles, Senior Product Manager at the logic of the provider's spectra of the storage solution. "Factoring in scalability, technology technology And operating costs such as power, administration, floor space and the renewal of time support can make a big difference in the acquired archivation, "says Hiles." Considering the long-term implications of these storage characteristics and by purchasing the storage that provides the best total cost of ownerships over time reduces the possibility that long-term costs will exceed very short-term discounts. "7. Use a storage approach to levels." Save money using your fastest memory, like SSD, for data you actively use, and use less expensive platforms, such as cloud, to store your archive or backup data, "says Aaron Rosenbaum, Director, product management , MarkLogic, a supplier of database solutions. " Make sure your systems can use different storage levels as well as the needs of the performance of a change of application, it is not necessary re-architect [en]. "8. Know your clouds." All storage clouds are not created equal ", warns Andres Rodriguez, CEO of Nasuni, which provides storage infrastructures as per service." Some clouds are optimized to manage storage, others have performance and stability to act as the Rear for a primary data storage system, and even others are not worth the risk of any purpose, "explains." The lowest price cloud can end up being much more expensive in the long run if the data is lost or inaccessible. "9. Carefully veterinary storage providers." There are many valid storage solutions on the market that satisfy your needs, "says Mike Garber, Senior Director, Platform Management at the Independence Blue Cross health insurance provider." Select a supplier of storage that has excellent technical support and even a careful account team, "says." When problems arise within the network of Storage, generally have a great impact on your organization. Your ability to solve these problems will be critical for your success. "It is also important" to make a list of everything you want the data protection solution to be done - and ask suppliers as to the list can cover, "says Jarrett Potts, director of marketing for the supplier of backup solutions of the Storserver data. " Organizations looking for storage suppliers should pay close attention to capabilities, performance, availability and error tolerance, "says Milton Lin, Master Cloud Specialist at Force 3, which provides a variety of technological solutions." It is also important to look for the Suppliers offering innovative features such as subtle projection, tiering and deduplication. "Finally, it is necessary to remember that" it is not possible to transfer all the risks related to [your] data simply by storing it in a third party facility, "warns Chris Reffkin , a senior manager in the risk consultation with Crowe Horwath LLP. "The organization is ultimately responsible for your data," says. "This responsibility includes due diligence not only during procurement, but through the life cycle of the relationship of the seller. It also means if the worst scenario happens, [you must have] the appropriate contract in place to cover the cost of infringement, etc. "says Reffkin.10. Do not store redundant data." Many companies do not have a storage plan, "says Michael Clapperton, CIO by George Little Management, a trade shows producer. Instead," they tend to capture and store redundant data "He says." This was a problem less a problem when the record was expensive; Companies were much more careful to plan what to keep, "says Clapperton." But with the ability to be more reasonably priced, the trend is to preserve The problem is identifying what is valid and what is dated and database performance. "So, before storing the data, analyze it and" Choose your most reliable source ", elimination of copies.11. Make sure yours yours Data is safe. "When the data is managed within any IT environment, safety must be the first priority," says Neil Kole, vice-president of infrastructures and global operations at computer science, a data integration software provider. " Safety reaches twice: data must be both both and physically, "says Kole." The data should also be encrypted so that it can not be read or used by unscrupulous third parties if it ever falls out of possession or is hacked (which happens). "In addition, Kole advises DATA encrypted backups to tape and seat it in a safe outdoor location," so that in an emergency or natural disaster, the data and enterprise system can be recreated. "12. Leverage Technologies that use deduplication, snapshotting and cloning. "This Can save you a good amount of space, and gives you control of your data version," says David Stahl, director of the Agency it huge digital. " Some of the most recent file systems like ZFS do all of this and are open source. But commercial products like NetApp have done so for years. "Adds Doug Hazelman, vice president of product strategy at Veeam Software:" SAN SNAPSHORS can now be converted into backups that can be stored OFFSITE, allowing you to back up several times an hour instead of once a day. "13. Make sure you can find the necessary data once it is stored." Being able to easily search your electronically stored data and provide accurate results instantly is critical to getting the most out of your data on a daily basis and in urgent situations, such as when your data is needed for litigation, "says Chris Grossman, senior Vice President, Enterprise Applications, Rand Rand Worldwide and Rand Secure Archive, a provider of data storage solutions and management. " After all, if you can not find the right data when you need it, what is the point of storing your data? "It's all about recovery, "says Pots." All the BAC Kups in the world can not save you if you can not recover [your data]. "So any method or backup method you use, be sure to test them - and not just once a year or once a month." Make random Recoveries every week, "recommends POTS." Disaster recovery and control your data pool testing [periodically, so you can] be sure to be able to recover your data. "" Always remember the rule 3-2-1 " adds Dave Hamilton, Dave hosts the podcast Mac Geek Geek in the Mac observer. "Keep at least three copies of everything that you are interested in at least two different sizes, with at least one of them offsite." Jennifer Lonoff Schiff is a contributor in cio.com and runs a marketing communications company focused on helping organizations better interact with their customers, employees and partners. Follow everything from CIO.com on Twitter @Cioonline, Facebook and Google +. Copyright Â © 2013 IDG Communications, Inc. Inc.