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DR is also a reactive process by nature. Failure to have DR procedures in place can result in legal or regulatory penalties, so understanding how to comply with resiliency standards is important. Organizations generally quantify these using measurements called recovery point objective (RPO) and recovery time objective (RTO). A hurricane or tornado could destroy an entire manufacturing facility, data center or office. An organization sets up and maintains an internal DR site. These events are often thought of in terms of natural disasters, but they can also be caused by systems or technical failure or by humans carrying out an intentional attack. A brief network outage could result in frustrated customers and some loss of business to an e-commerce system. BC is a proactive discipline intended to minimize risk and help ensure the business can continue to deliver its products and services no matter the circumstances. Depending on the size and scope of the organization, it may have separate DR plans and implementation teams specific to departments such as data centers or networking. The practice of DR revolves around events that are serious in nature. Organizations with large information requirements and aggressive RTOs are more likely to use an internal DR site, which is typically a second data center. It focuses especially on how employees will continue to work and how the business will continue operations while a disaster is occurring. DR initiatives are more attainable by business of all sizes today due to widespread cloud adoption and availability of virtualization technologies that make backup and replication easier. Several data protection vendors offer virtual backup and DR as a product. This document is known as a disaster recovery plan. Network disaster recovery Network connectivity is essential for internal and external communication, data sharing and application access during a disaster. Summary of insurance coverage. RPOs are acted on before a disruptive event takes place to ensure data will be backed up, while RTOs come into play after an event occurs. On a practical level, DR and business continuity are often combined into a single corporate initiative and even abbreviated together as BCDR, but they are not the same thing. An external disaster recovery site is owned and operated by a third-party provider. However, much of the terminology and best practices developed for DR were based on enterprise efforts to recreate large-scale physical data centers. Options include: Backup and data protection platforms DraaS providers Add-on services from data center and colocation providers, and Infrastructure as a service providers Choosing the best option for an organization will ultimately depend on top-level business continuity plans and data protection goals, and which option best meets those needs along with budgetary goals. The plan details recovery goals including RTO and RPO as well as the steps the organization will take to minimize the effects of the disaster. Disaster recovery as a service (DRaaS) DRaaS is the commercially available version of cloud DR. A communication that includes internal and external contacts, as well as boilerplate for dealing with the media. BC is also closely related to business resilience, crisis management and risk management, but each of these has different goals and parameters. It requires an IT team to set up automatic failover of workloads to a public cloud platform in the event of a disruption. Recovery point objective RPO is the maximum age of files that an organization must recover from backup storage for normal operations to resume after a disaster. Get started with your own analysis by reading our guide to BIA and free template. While the two disciplines have similar goals relating to an organization's resilience, they differ greatly in scope. Businesses that had emergency measures in place to support remote work had a clear advantage when stay-at-home orders were enacted. The RPO determines the minimum frequency of backups. For more details and guidance, download a free DR plan template and planning guide. A BIA can help predict and quantify costs, both financial and non-financial. When building an internal site, the business must consider hardware configuration, supporting equipment, power maintenance, heating and cooling of the site, layout design, location and staff. Cloud disaster recovery The widespread acceptance of cloud services allows organizations that traditionally used an alternate location for DR to be hosted in the cloud. It raises awareness about potential disruptions and helps an organization to prioritize its mission-critical functions. Virtualized disaster recovery Virtualization enables DR by allowing organizations to replicate workloads in an alternate location or the cloud. A data breach can be more expensive; the average cost in 2020 was \$3.86 million, according to the 2020 Cost of a Data Breach Report by IBM and the Ponemon Institute. Before an organization can determine its DR strategies, it must first analyze existing assets and priorities. While some organizations may find it a challenge to invest in comprehensive disaster recovery planning, none can afford to ignore the concept when planning for long-term growth and sustainability. A network DR strategy must provide a plan for restoring network services, especially in terms of access to backup sites and data. Regular disaster recovery testing should be scheduled to ensure the plan is accurate and will work when a recovery is required. The DR plan is the formal document that specifies these elements and outlines how the organization will respond when disruption or disaster occurs. This involved plans to transfer, or fail over, workloads from a primary data center to a secondary location or DR site in order to restore data and operations. RPO and RTO are both important elements in disaster recovery, but the metrics have different uses. For example, if an organization has an RPO of four hours, the system must back up at least every four hours. Hot site: A fully functional data center with hardware and software, personnel and customer data, which is typically staffed around the clock and operationally ready in the event of a disaster. An organization uses a DR site to recover and restore its data, technology infrastructure and operations when its primary data center is unavailable. In addition to choosing a DR site and considering DR tiers, IT and business leaders must evaluate the best way to put their DR plan into action. The tiers feature a variety of recovery options organizations can use as a blueprint to help determine the best DR approach depending on their business needs. A cloud recovery site is another option. The provider assumes responsibility for implementing the DR plan when a crisis arises, based on a service-level agreement. This is particularly important for organizations operating in financial, healthcare, manufacturing and government sectors. Warm site: An equipped data center that doesn't have customer data; an organization can install additional equipment and introduce customer data following a disaster. Sample templates for a variety of technology recoveries, including technical documentation from vendors. Directions for how to reach the recovery site. Read more about calculating recovery objectives and the difference between RPO and RTO. This approach recognizes that some mission-critical functions may not be able to tolerate any data loss or downtime, while others can be offline for longer or have smaller sets of data restored. Disaster recovery vendors can take many forms, as DR is more than just an IT issue. It also examines the impact of different disasters on an organization's safety, finances, marketing, business reputation, legal compliance and quality assurance. A list of software and systems that staff will use in the recovery. Cold site: Has infrastructure to support IT systems and data, but no technology until an organization activates DR plans and installs equipment; they are sometimes used to supplement hot and warm sites during a long-term disaster. A diagram of the entire network and recovery site. In addition to choosing the most appropriate DR site, it may be helpful for organizations to consult the tiers of disaster recovery identified by the Share Technical Steering Committee and IBM in the 1980s. They are significant enough to disrupt or completely stop critical business operations for a period of time. Major types of DR include: Data center disaster recovery Organizations that house their own data centers must have a DR strategy that considers all the IT infrastructure within the data center as well as the physical facility. Preparing for every potential disaster may seem extreme, but the COVID-19 crisis illustrated that even scenarios that seem farfetched can come to pass. You'll also discover what to include in a disaster recovery plan and the major types of DR, as well as major DR services and vendors. Read on to learn more about why DR is important, how it works, and the difference between disaster recovery and business continuity. An organization should consider site proximity, internal and external resources, operational risks, service-level agreements and cost when contracting with cloud providers to host their DR assets or outsourcing additional services. Additionally, if the worst were to happen, organizations that have prioritized DR will experience less downtime and be able to resume normal operations faster. While planning for it must be done in advance, DR activity is not kicked off until a disaster actually occurs. External sites can be hot, warm or cold. The monetary costs can be significant. It also provides a forum for discussing these topics and making careful decisions about how to best respond in a low-pressure setting. Key personnel and DR team contact information. Types of DR can vary, based on the IT infrastructure and assets that need protection as well as the method of backup and recovery the organization decides to use. Backup to a failover site at a secondary data center or a colocation facility is often a large part of the plan (see "Disaster recovery sites" below). An organization should consider its DR plan a living document. It addresses the specific steps an organization must take to resume technology operations following an event. Understanding the difference between risk analysis and BIA and conducting the assessments can also help an organization define its goals when it comes to data protection and the need for backup. Proposed actions for dealing with financial and legal issues. Some of the major disaster recovery software and DRaaS providers include, but are not limited to: Acronis Dell EMC Microsoft IBM VMware Veeam Zerto Emergency communication vendors are also a key part of the recovery process, and include Everbridge Crisis Management, Cisco, Rave Alert, AlertMedia and BlackBerry Athoc. DR sites can be internal, external or cloud-based. The Uptime Institute's Annual Outage Analysis 2021 report estimated that 40% of outages or service interruptions in businesses cost between \$100,000 and \$1 million, while about 17% cost more than \$1 million. The plan should also be evaluated against consistent criteria whenever there are changes in the business or IT systems that could affect DR. The goal of DR methods is to enable the organization to regain use of critical systems and IT infrastructure as soon as possible after a disaster occurs. Thinking about disasters before they happen and creating a plan for how to respond can provide many benefits. DR vendors include those selling backup and recovery software as well as those offering hosted or managed services, or its affiliates Disaster recovery (DR) is an organization's ability to respond to and recover from an event that negatively affects business operations. DR is a subset of business continuity that focuses on the IT systems that enable business functions. Because DR is also an element of organizational risk management, some vendors couple disaster recovery with other aspects of security planning, such as incident response and emergency planning. The assessment should identify potential hazards, determine who or what these hazards would harm, and use the findings to create procedures that take these risks into account. Once an organization has thoroughly reviewed its risk factors, recovery goals and technology environment, it can write a DR plan. Learn more about matching your business needs with available DR options. Risks can vary greatly depending on the industry the organization is in and its geographic location. IT and business leaders should also document and make alternative arrangements for a wide range of facilities-related components including power systems, heating and cooling, fire safety and physical security. Two different analyses typically factor into DR decision-making: Risk analysis Risk analysis or risk assessment is an evaluation of all the potential risks the business could face, as well as their outcomes. The components of a DR plan should include: A DR policy statement, plan overview and main goals of the plan. Recovery time objective RTO refers to the amount of time an organization estimates its systems can be down without causing significant or irreparable damage to the business. In some cases, applications can be down for several days without severe consequences. A step-by-step description of disaster response actions immediately following an incident. This will depend on the IT environment and the technology the business chooses to support its DR strategy. Download a free SLA template for use with disaster recovery products and services. Additionally, many businesses are required to create and follow plans for disaster recovery, business continuity and data protection in order to meet compliance regulations. In others, seconds can do substantial harm to the business. In DRaaS, a third party provides replication and hosting of an organization's physical and virtual servers. Another type of DR tiering involves assigning levels of importance to different types of data and applications and treating each tier differently based on the tolerance for data loss. Business impact analysis Business impact analysis (BIA) evaluates the effects of the risks identified above to business operations. Virtualized workloads have a small IT footprint, replication can be done frequently, and failover can be initiated quickly. The benefits of virtual DR include flexibility, ease of implementation, efficiency and speed. To prepare for this, organizations often perform an in-depth analysis of their systems and create a formal document to follow in times of crisis. Types of disaster include: Cyber attacks such as malware, DDoS and ransomware attacks Sabotage Power outages Equipment failure Epidemics or pandemics, such as COVID-19 Terrorist attacks or threats Industrial accidents Hurricanes Tornadoes Earthquakes Floods Fires Disasters can inflict many types of damage with varying levels of severity, depending on the scenario. Cloud DR goes beyond simple backup to the cloud. © 1996-2014, Amazon.com, Inc.

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