GoDgtl
by **PruTech**

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USING **AWS** FOR
DISASTER RECOVERY

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Whether it's more knowledge-based information on cloud topics such as **security,** or **governance and compliance,** or **basic cloud migration aspects**, or even if an assessment is needed, GoDgtl can provide a roadmap for your path to project completion and success.

Whether caused by a malicious incident (malware/virus, ransomware), natural disaster, human error, software error, or hardware failure, the threat of an IT disaster always looms large at many organizations. A complete shutdown, loss of access to critical systems and important data, a delay in response to customers and vendors — all these consequences can negatively impact the revenue, productivity, and reputation of any organization. IT is a critical component of business resiliency and continuity, and it's imperative that you develop and implement IT disaster recovery plans to protect your operations from downtime and data loss.

When a disaster causes an interruption to normal business functions due to loss of computing and/or data resources, systems can be relocated to a standby location to resume operations, but that begs some critical questions:

- Do you readily have access to your backup data?

- How quickly can you procure and stand up the necessary hardware?

- How will your users access the applications and data once restored?

- Is everyone in IT on the same page when an IT disaster is declared, and the disaster recovery plan needs to be enacted?

- Which systems should IT focus on first?

    *Gaps in **ANY** of these responses will lengthen your recovery time.*

The Need for a Disaster Recovery Plan

The disaster recovery plan is a component of your broader business continuity plan. It should consider not only IT disasters but also other internal or external outages. A disaster recovery plan is, quite simply, a set of coordinated processes and procedures for restoring the infrastructure, systems, and data that support key business operations.

Plan creation involves understanding the criticality of your data, key applications, and systems by identifying probable and impactful threats and recovery strategies. The expectations (recovery time and acceptable data loss) for resuming essential services and applications should be consistent with those of your business units.

How Cloud-Based Disaster Recovery Helps

To effectively and efficiently address the disaster recovery challenges, forward-looking businesses are implementing or switching to cloud-based disaster recovery. *Here are five key reasons why:*

1

Flexibility and reduced downtime. Cloud-based solutions offer your organization the power to run off the cloud or restore your crucial data and systems to any location. They help you get these systems back online much quicker during an IT disaster, minimizing the manual processes of traditional recovery methods.

5

Cost-effectiveness. Organizations using cloud-based disaster recovery solutions can take advantage of the common pay-as-you-grow model, aligning costs with the size and complexity of your IT disaster recovery needs. This also enables shifting costs from non-recurring (capital expense) to recurring (operational).

2

Reliability. Cloud-based solutions allow for frequent and non-disruptive testing of IT disaster recovery efforts. This will enable you to accurately test your recovery point objective and recovery time objective and strengthen your disaster recovery plan.

3

Simplification and efficiency.
You can quickly deploy cloud-based disaster recovery to all locations across an organization. The architecture works well with your broader business continuity plan, allowing users remote access to necessary systems. A cloud model offers consistency and simplified management and support.

As organizations continue to explore and embrace the cloud as an alternate means for delivering IT services, cloud-based disaster recovery strategies are becoming more mature, increasing the benefits they offer. Lower price points, flexible contract terms, and scalability allow you to protect your applications and data with controlled, predictable investments while improving business resiliency. And that's one thing that will help your organization weather an IT disaster or any other storm.

4

Ease of deployment. With cloud-based solutions, entities can leverage provider expertise and specialized knowledge. They can get started without significant investments in hardware, software, or a secondary site without much training or headcount.

CloudEndure Disaster Recover: The AWS Solution

IT disasters such as data center failures, server corruptions, or cyber-attacks can not only disrupt your business but also cause data loss, impact your revenue, and damage your reputation. CloudEndure Disaster Recovery minimizes downtime and data loss by providing fast, reliable recovery of physical, virtual, and cloud-based servers into AWS Cloud, including public regions, AWS GovCloud (US), and AWS Outposts.

You can use CloudEndure Disaster Recovery to protect your most critical databases, including Oracle, MySQL, and SQL Server, as well as enterprise applications such as SAP.

CloudEndure Disaster Recovery continuously replicates your machines (including operating system, system state configuration, databases, applications, and files) into a low-cost staging area in your target AWS account and preferred Region. In the case of a disaster, you can instruct CloudEndure Disaster Recovery to automatically launch thousands of your machines in their fully provisioned state in minutes.

By replicating your machines into a low-cost staging area while still being able to launch fully provisioned machines within minutes, CloudEndure Disaster Recovery can significantly reduce the cost of your disaster recovery infrastructure.

At GoDgtl – We Drive DX Objectives with **Smart Solutions** and **Continuous Innovation**

Benefits of CloudEndure Disaster Recovery

CloudEndure Disaster Recovery enables organizations to quickly and easily shift their disaster recovery strategy to AWS from existing physical or virtual data centers, private clouds, or other public clouds, in addition to supporting cross-region disaster recovery in AWS. The solution utilizes block-level Continuous Data Replication, which ensures that target machines are spun up in their most up-to-date state during a disaster or drill.

Organizations can thereby achieve sub-second Recovery Point Objectives (RPOs). The Continuous Data Replication takes place in a low-cost "staging area" in AWS, which reduces compute and storage footprint to a minimum. In the event of a disaster, CloudEndure triggers a highly automated machine conversion process (p2c/v2c/c2c) and a scalable orchestration engine that can spin up thousands of machines in the target AWS Region within minutes. This enables organizations to achieve Recovery Time Objectives (RTOs) of minutes. Accordingly, CloudEndure's Disaster Recovery solution provides the resilience of a warm standby solution at the low cost of a cold standby solution.

Here are some of the additional benefits of this AWS disaster recovery solution.
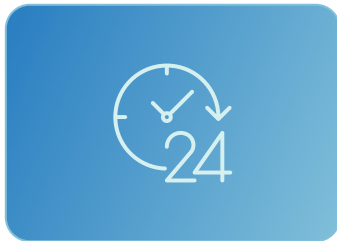
REDUCE DOWNTIME AND PROTECT AGAINST DATA LOSS

Unlike snapshot-based solutions that update target locations at distinct, infrequent intervals, CloudEndure Disaster Recovery provides asynchronous, continuous replication, enabling Recovery Point Objectives (RPOs) of seconds. Moreover, automated machine conversion and orchestration enable Recovery Time Objectives (RTOs) of minutes. You can meet these stringent recovery objectives even for your largest write-intensive workloads.

SIMPLIFY IMPLEMENTATION AND INCREASE RELIABILITY

CloudEndure Disaster Recovery's automated failover and failback technology minimize time-intensive and risky manual processes during recovery. This decreases the likelihood of human error and improves reliability. CloudEndure also provides automation that makes it fast and easy to set up, maintain, monitor, and test your disaster recovery processes. Not only does this simplify implementation, but it also means that you can efficiently conduct frequent non-disruptive drills, validate your recovery processes and objectives, and make any necessary fixes to increase reliability.

PROTECT ENTERPRISE APPLICATIONS AND DATABASES WITH A SINGLE TOOL

CloudEndure Disaster Recovery allows you to achieve business continuity for your most critical databases, including Oracle, MySQL, and SQL Server, as well as enterprise applications such as SAP. This means that you don't need to purchase multiple application-specific replication tools because CloudEndure Disaster Recovery replicates all applications and databases that run on supported operating systems.

DECREASE YOUR TOTAL COST OF OWNERSHIP

Traditional disaster recovery solutions require a costly set of duplicate IT resources, including hardware, compute, storage, networking, and software licenses. CloudEndure Disaster Recovery replicates your workloads into a low-cost staging area in your preferred AWS Region, which reduces compute costs and the need for duplicate OS and third-party application licenses. You only require paying for fully provisioned workloads in an actual disaster or drill.
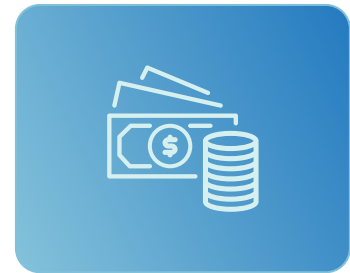
ACCELERATE YOUR MIGRATION TO THE CLOUD

Implementing disaster recovery on AWS can be an effective first step in your cloud journey. When you set up CloudEndure Disaster Recovery, your source machines are replicated to AWS, kept up-to-date with all application changes, and ready to run on your target AWS Region. If you decide to migrate and run your workloads full time on AWS, you can easily cut over operations to AWS using CloudEndure Disaster Recovery. After migrating to AWS, you can use CloudEndure Disaster Recovery for cross-region disaster recovery.

PROTECT YOUR DATA FROM RANSOMWARE ATTACKS

In the event of a ransomware attack, you can use CloudEndure Disaster Recovery to launch an unencrypted, uncorrupted version of your servers on your target AWS Region. In addition, CloudEndure Disaster Recovery provides point-in-time recovery, enabling fallback to a recovery point from before the attack. As a result, data loss is minimal, making it easier and quicker to return to normal operations.
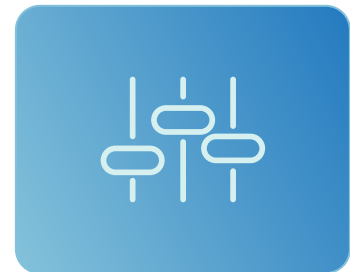
HOW GODGTL COLLABORATES WITH AWS

GoDgtl brings a team of experienced cloud experts who work directly with AWS to bring value and real solutions for your cloud projects. With direct access to AWS resources and in-house cloud consulting talent, GoDgtl is ready to guide you through your cloud (disaster recovery) journey regardless of where you are on that path.

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