

Being Prepared for a Bad Day: Optimizing IT and Data Resilience

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IT and Data Resilience Overview

- Natural and man-made disasters, the increase in cyber attacks, the need to build and maintain public trust, and the need for continuity of services dependent on data and technology are reasons that strong IT and data resilience is vital.
- IT resiliency is the ability to quickly recover your IT systems due to an emergency event, such as a power outage, natural or man-made disaster, hacking event or infrastructure failure.
- Data resiliency is the ability to protect and/or recover data quickly due to an emergency event, such as hardware failure or cyber attack.



- Reduce or eliminate downtime with redundancy or fault tolerance
 - -Supply automatic backup power
 - -Supply redundant infrastructure (routers, switches, servers, etc.) to failover to
 - -Supply a replicated database to failover to in the event the primary database becomes unavailable



• Backup your data

-Having regular backups allows for smooth and quick recovery in case of an emergency event with minimum loss of data depending on the backup timeline
-Backup to multiple locations (including off-site)
-Test and verify your backups regularly



- Take proper security measures
 - -Implement a cybersecurity training and awareness program for your staff
 - -Create and regularly update strong cybersecurity policies -Get legislative or budgetary buy-in to assist your state's investment in cybersecurity.
 - -Cybersecurity is ever evolving, so create a culture of evergreen assessment and after-action reviews



• Have a business continuity plan (BCP)

-Gives direction on how to continue operations while achieving the defined recovery time objectives (RTO-the maximum tolerable time that a certain system can be down without causing catastrophic damage to an organization)

-Tabletop exercises are a great tool to test your plan and train your staff on responding to emergency events. These can range from small brainstorming sessions to formal events for all personnel, and gives everyone an understanding of what is required during an actual event

-Use these exercises to update your BCP



Continuous monitoring and testing

 Hire dedicated cybersecurity staff-while cybersecurity is
 everyone's job, department accountants cannot and should not
 be expected to perform the technical tasks
 -Have regularly scheduled testing by both your dedicated staff
 and a properly-credentialled, trusted third party
 -Test your network, website, web applications and people
 -Test your policies and procedures to validate their purpose
 and build confidence of support staff



Resiliency Action Items

- Work with your legislatures or appropriating bodies to secure the necessary resources to be resilient.
- Regularly train and test staff to ensure resiliency.
- Create and update your business continuity plan to be prepared for emergency events.
- If you take the proper precautions, you will be prepared for every "unexpected" event.



Questions



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