Stought to yo

Disaster Recovery

How to Create a Robust Disaster Recovery Plan.

Protect

Today's agenda

- The drivers behind a DR Plan
- ✓ Disaster Recovery Fundamentals
- Risk analysis for Small Business & NFP
- Steps to build a robust DR Plan
- ✓ How cloud computing can help
- ✓ What's Next?

Ur data

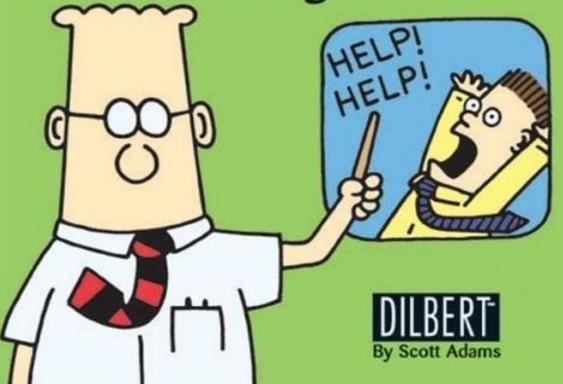
Phich Survey

"Let's get to know you. Please help me by answering a few questions..."



Dr. Carlson Ho
Director of ITConnexion

Our Disaster Recovery Plan Goes Something Like This...



Main drivers of a DR Plan

- 1 Prevent loss of Data (Protection of intellectual property)
- Restore your system in a timely fashion (Business continuity)
- Compliance (e.g. board compliance, tender processes & government requirements)



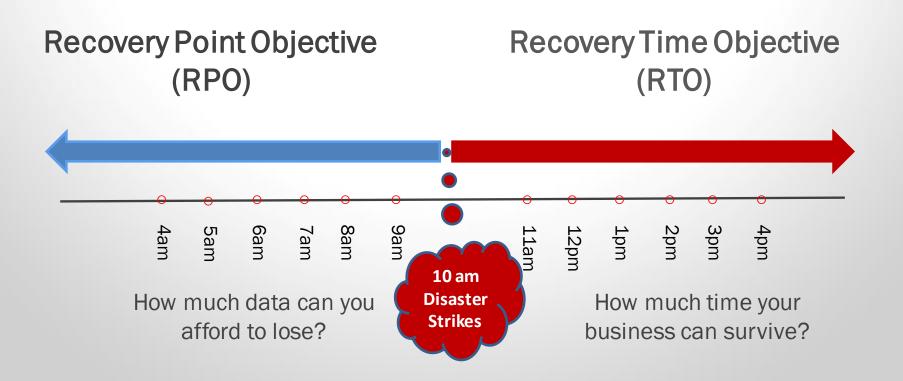
DR Fundamentals

- Recovery Time Objective (RTO) and Recovery Point Objective (RPO)
- 2 Recovery Classes

7 tiers of Disaster Recovery



Key Measures - Time and Data!



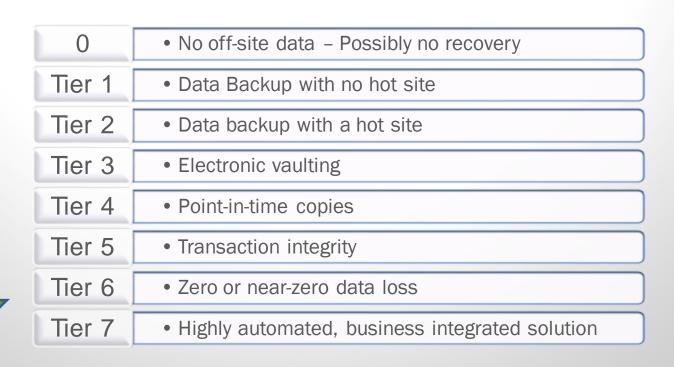
Where is your business situated?

Recovery Time Objective (RTO) and Recovery Point Objective (RPO)

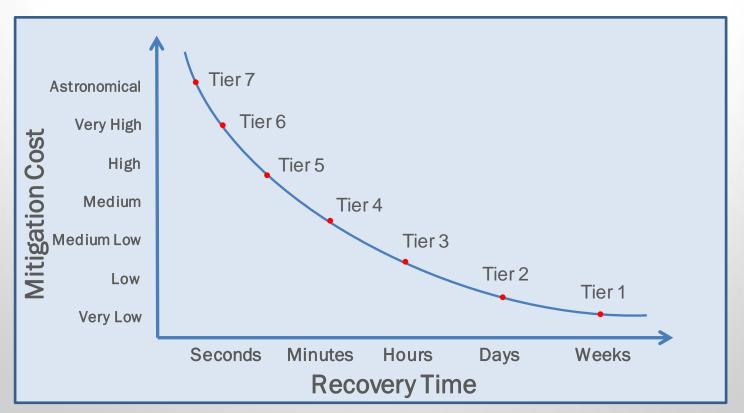
	Class 1	Class 2	Class 3	Class 4
RTO	72 hours to 1 Week	8 hours to 72 hours	Less than 8 hours	0 minutes
RPO	Last full backup - Less than 1 week	Last backup - less than 24 hours	Less than 15 minutes before the event	0 minutes

(https://en.wikipedia.org/wiki/Seven_tiers_of_disaster_recovery)

7 tiers of Disaster Recovery



Recovery Time versus Cost





Developing the plan. Key Steps.

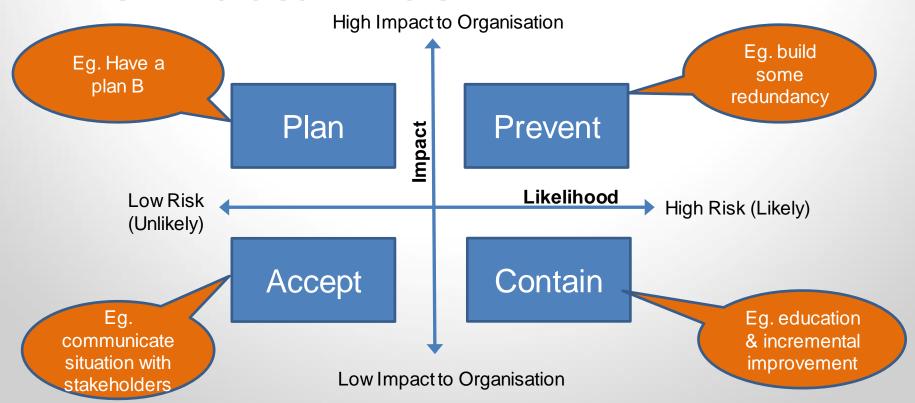
- 1 Risk & Impact Assessment
- Develop the Execution Plans
 - Action Plan
 - Communication Plan
 - Detail Recovery Plan
- 3 Test
- 4 Post Actions



Risk & Impact Assessment

- Identify most important business functions => Pinpoint the IT system and assets that support these functions.
- Examine threats and vulnerabilities (internal & external) that will severely impact the company's ability to conduct business:
 - Loss of data (e.g., Server failure, accidental or deliberate deletion)
 - Loss of IT function (e.g., Computer virus, vendor out of business)
 - Loss of skills (e.g., accidents, illness)
 - Loss of access (e.g., Fire, flood, extended power outage)
- C Determine the risk factor by assessing:
 - Likelihood of occurrence
 - Impact to business

Risk Factor Matrix



Developing the Execution Plans

- 1 Define your action plan
 - Minimum number of core staff to conduct business
 - Minimum technology to conduct business
 - Determine priority of recovery
- 2 Communication Plan
 - Who is in charge of communication
 - How to reach your staff, customers and suppliers and inform them of the situation (you may have no access to emails and contact lists)



Developing your DR plan cont'd

3 Detail Recovery Plans

- System specification
- Warranty & vendor support information
- Support contact information
- Dependencies (hardware, software, licenses, backup)
- Recovery Procedure the steps and estimated time to perform the recovery.



After the Plans

- 1 Identify components where you may do a test-run.
- 2 Identify the gap for input into the next IT Strategy Plan
- 3 Store your DR plans offsite



Setting a DR plan on a budget

- Be realistic, start with a simple plan and build on it over time.
- 2 Focus on the most critical components in your business
- 3 Think outside the box



Can cloud computing help?

- Data Centers are equipped with redundancies (power, hard disks, servers, internet links) and offer ideal operating environment for computing devices (dust free, constant temperature and humidity)
- Simplify your infrastructure and therefore inherently reduce your overall risk.
- Choose reputable cloud solution providers.



To summarise.....

- Recovery Point Objective (data) and Recovery Time Objective (time)
- Risk & Impact Assessment assess likelihood and impact of risks
- Execution plans action plan, communication plan and detail recovery plan
- Identify gaps for consideration in your next IT plan
- You can develop your DR plan on a limited budget & resource
- 6 Consider cloud technology as part of your DR solution



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Any questions?