Leveraging the Cloud for Next Generation Continuity
A lot has changed in the world of Disaster Recovery

Public & Private Clouds

Virtualization & Hyperconvergence

Exponential Expansion of Cyber Attack Risks

Made-In-Canada Recovery Options

“Life is like underwear, change is good.”
Public & Private Clouds

• The Big Three: AWS, Azure, Google

• On-demand unlimited scalability

• Redundancy is built-in

• Increasing number of critical applications are being delivered from the cloud
Virtualization & Hyperconvergence

• Hardware virtualization is well established

• Virtualization of networks (“SD WAN”) is increasingly prevalent

• Hyperconvergence is the virtualization of remaining components of computing infrastructure, including storage
Increasing Risk of Cyber Attack

- Attack vectors increasing
- Sophistication of attacks increasing
- Public tolerance of security breaches is decreasing

- Ransomware attacks have joined earthquakes, floods, and power failures as scenarios that all DR/BC professionals must plan for
How has DR/BCP Evolved?

• Data back-up
  • Disk has largely replaced tape
  • Cloud is now the preferred location for long term data storage

• Back-up software tools are far more sophisticated
  • Back up one cloud to another
  • Recover-in-place
EPICC 2017

How has DR/BCP Evolved?

- Recovery of virtual systems
  - Faster, easier, cheaper
- Fault-tolerant architectures
- Replication is easily set up
- Recovery capability built-in
- Testing on demand
How has DR/BCP Evolved?

- Affordable, scalable clouds are ideal “hot sites”
  - No capital outlay to set up
  - Maintenance and upgrade costs are built-in
  - Leverage "big company" expertise
What does all this mean?

• Lower costs
• Shorter recovery times
  • Sub-1 hour RTO
  • Last-transaction RPO
• Testing-on-demand
• “Break glass” groundwork
• Recovery orchestration
• FOIPPA compliance
Made in Canada Recovery

• It’s now affordable to achieve a less-than-one hour RTO and a last-transaction RPO without any footprint in the United States

• Coast-to-coast “sovereign fibre” provide access to all-Canadian public cloud data centres with very low latency
  • Kamloops to Toronto, 100Mb ~$2k/month
Better Business Through Technology

Good People doing Good Work for Good Companies

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