



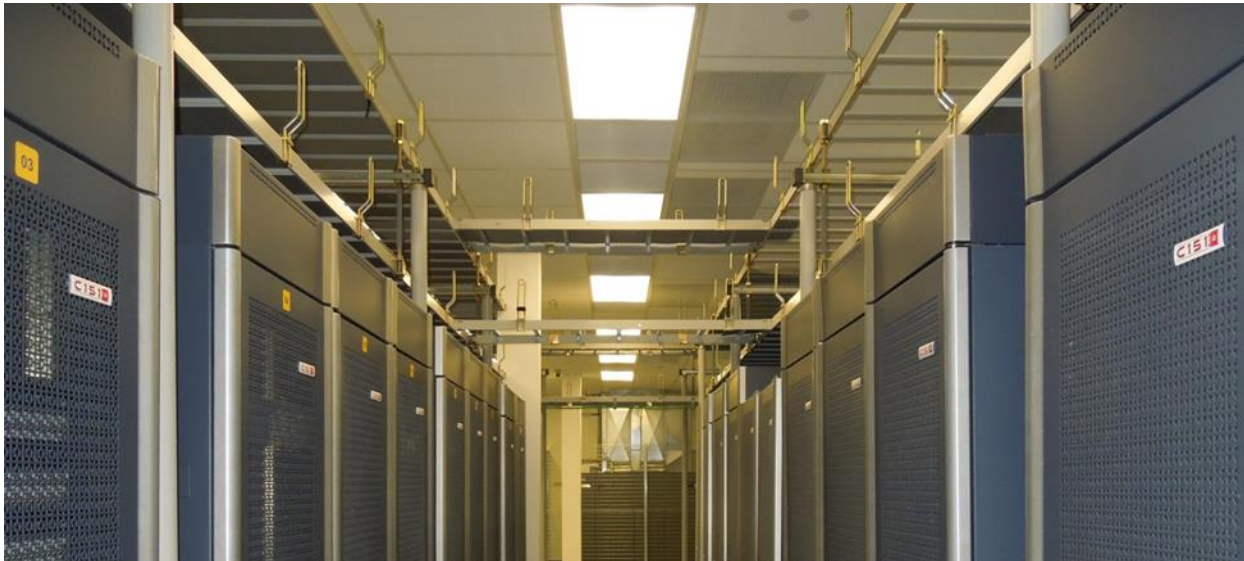
MGI
C15
DATA CENTER

MGI-C15 Data Centres



Who are we?

- C15 Data Center was launched January 2015
- Experienced Management Team
- Data Centre, Telecom and Capital Market background



Why at C15

- Cloud Ready data center to support current and future needs
- 100% Uptime SLA backed by highly redundant infrastructure
- Full data center services from Colocation to Cloud (Private and Public)
- Strong Partner Ecosystem to support your current and future needs
- Cost effective, Convenient location & Carrier Neutral with redundant links to Toronto's carrier hotel
- Certified...



Just a cross connect away from ON-NET services



Colocation

Secure Space, Redundant Power, Cooling, Fibre plus Support

- Cabinets, Cages, Private Pods, Work Space
- 24/7 Secure Access with Perimeter and Biometric Controls
- 100% Service Level Agreement supported by redundant design
- Remote Hands & Warehousing
- Interconnection locally/via redundant POPs at 151 Front Street
- Hybrid ready site – Bundle Colo plus Cloud Services

All the redundancy of large Telco at reasonable cost

Delivered by a flexible and agile partner



Work Area Recovery

Physical office workspace to support critical Staff during an emergency

- Fully functional work area in secure facility
- Generator backed power
- Secure wireless network
- Shared and Dedicated models
- Customizations available
- Annual testing available

Support IT resilience with Colocation & Cloud

Keep employees working in our business continuity space.



Network Services

Interconnection

- Locally available for On Net Carriers
- Virtual Interconnection from redundant POPs at 151 Front Street
- Virtual Cross Connect from Toronto's Carrier Hotels

Last Mile Connectivity

- Last Mile TLS and WAN
- Wireless and fibre builds available

Cloud Connect

- Hybrid Colocation with private interconnection to AWS & Azure
- Locally with Private Cloud environments

Carrier Neutral – Bring your own or use C15Edge



Backup Services

Data Vaulting

- Keeping your backup data at the C15 Edge facility
- Leverage your existing backup software/process
- Physical/VM target servers for self service customers.

Cloud Based Backup

- Commvault, Veeam or Asigra
- Discovery and custom setup to client specifications
- Daily log emails showing completed backup schedules

Veeam Cloud Connect

- Special case/opportunity...see next slide

Offsite backup...the first stage of a recovery plan



Veeam Cloud Connect

Simple Cloud Backup Service for existing Veeam customers.

- Quick and easy
- Extend their existing backup process to the Cloud
- No new software, use their existing Veeam Backup Console

It's REALLY easy:

- Login to Veeam backup console
- Add Service Provider
- Service Provider repository appears as backup destination

Veeam used by 8000+ customers across Canada.

Fewer than 2% use Veeam Cloud Connect!



Traditional Hosting Services

Dedicated Hosting

- Physical and Virtual Servers delivered as a service
- All the benefits of the C15 Data Center
- Completely managed infrastructure
- Clients receive remote root access for a self managed experience

Managed Hosting

- Custom designed and built to client specifications
- Outsourced infrastructure and administration
- Completely customized support levels and service demarcation

Infrastructure only through fully managed environments



Private Cloud Services

- Virtual Data Center
 - VMware based Infrastructure as a Service (IAAS)
 - Branded HP and Hitachi infrastructure
 - Pooled resources available for client to build any configuration
 - Client managed environment
 - Resources reused without contractual change
- Pay per Use model
 - vCPU, vRAM
 - BlockStore Storage
 - Tier 1 (Production – read/write Balanced)
 - Tier 2 (write optimized)
 - ObjectStore “blob” storage compatible with AWS S3 API

Shared and Dedicated Options available



Cyber Security Services

Managed Firewall

- Physical and Virtual Servers options available
- Proactively installed and managed by certified Security Professionals
- 24/7 monitoring with automatic notification of impacting events
- 15 minute response time SLA
- Includes: *Adjustments to rule sets, Regular Firmware updates, Stateful Packet inspection, Protection vs. Port scanning, Spoofing and Denial of Service attacks*

Other Services:

*High available Configuration
Website Access Firewall
Managed VPN*

*Reputation Defense
Gateway Anti-Virus
Penetration Testing*





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C15 Edge Design Details



High Availability Design

- 2N/ Concurrently maintainable = No single point of failure
 - Power, Cooling and Network
- For example, for Power:
 - Generators, Automatic Transfer Switches, Uninterruptable Power Systems, Distribution Panels
- 100% Power & Environmental SLA



More Design Details

Power

- Fuel Diversity with both Natural Gas and Diesel Generators.
- Growth Capacity in place/on site

Cooling

- Two completely isolated cooling systems:
 - Condensers and Pumps
 - Cooling loops
 - HVAC units
 - Ducting
- Network
 - 4 segregated fibre bundles with different conduits
 - Diverse paths from data center
 - Redundant connections to Toronto's carrier hotel
 - Also Survivable connections if Toronto's carrier hotel fails



Security

- 24/7 Video Surveillance exterior and interior
- 24/7 Perimeter Security with guard dispatch
 - Motion Detection Systems
 - Penetration Detection Systems
 - Leak Detection
- Least Access Security Design
 - Access security controlled by Key Card/PIN ID
 - Physical and Zone Security segregate core systems
- Highest Security Zone = Data Center
 - Biometric Access Controls
 - Video Surveillance down each aisle
 - Lockable cabinets and cage space

